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DEPARTMENT OF THE AIR FORCE

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HOLLOMAN AIR FORCE BASE, NEW MEXICO

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NOV 19

Hazardous Waste Bureau

18 November 2014

DeAnna Rothhaupt
Chief, Holloman AFB Environmental
550 Tabosa Avenue
Holloman AFB NM 88330-8458

NOV 19

New Mexico Environment Department
Attn: Mr. John Kieling, Chief
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe NM

Dear Mr. Kieling

Holloman Air Force Base is pleased to submit the Revised Final RCRA Facility Investigation Report Building 131 Washrack, Site SD-08 (SWMU-82) for your review.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact me at (575) 572-3931 or by e-mail at deanna.rothhaupt@holloman.af.mil.

Sincerely

DEANNA ROTHHAUPT, GS-12, DAFC

Attachment:
Revised Final RCRA Facility Investigation Report Building 131 Washrack, Site SD-08 (SWMU-82)

cc:

(w/Atch)	(w/o Atch)	(w/CD)
Mr. David Strasser	Mr. Will Moats	Mr. Chuck Hendrickson
Hazardous Waste Bureau	Hazardous Waste Bureau	USEPA, Region 6 (6PD-F)
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NATIONVIEW

A NATIVE AMERICAN 8(a)

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November 13, 2014

49 CES/CEIE
550 Tabosa Avenue
Holloman AFB, New Mexico 88330-8458

Attention: Mrs. DeAnna Rothhaupt
Chief of Compliance and Restoration

Subject: Revised Final RFI Report Building 131
Washrack, Site SD-08 (SWMU-82)
Holloman Air Force Base, New Mexico

Dear Mrs. Rothhaupt,

NationView, LLC is pleased to submit three (3) hard copies and four (4) CDs of the *Revised Final RCRA Facility Investigation Report Building 131 Washrack, Site SD-08 (SWMU-82), Holloman AFB, NM.* Please send two (2) hard copies and two (2) CDs to the NMED HWB and one (1) CD to the USEPA Region VI. In addition, three (3) hard copies and three (3) CDs of the report have been sent to the USACE Omaha District.

If you have any questions, please feel free to call me at (303) 597-2450 x104.

Sincerely,
NationView, LLC

Jim Moore
Sr. Geologist/Project Manager

REVISED FINAL
RCRA FACILITY INVESTIGATION REPORT
BUILDING 131 WASHRACK, SITE SD-08 (SWMU-82)
HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared for:

49 CES/CEIE
Holloman Air Force Base
New Mexico

Under Contract to:

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Contract No. W9128F-09-D-0055
Delivery Order No. 0003

November 2014

Revision No. 01

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PREFACE

As a result of the New Mexico Environment Department (NMED) Notice of Disapproval (NOD) letter (HWB-HAFB-07-007) dated May 14, 2012 (Attachment A-1), the previously submitted *Final RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico* (Bhate, 2007) has been revised. Due to extensive modifications, this revised version of the Final SD-08 Resource Conservation and Recovery Act (RCRA) Facility Investigation Report is being resubmitted to the NMED without the customary redline strikeout revision format. The changes to the original Final SD-08 RCRA Facility Investigation Report were substantial, therefore a review of the redline strikeout would be difficult to comprehend. This preface was placed in this version to alert reviewers regarding the previously submitted version and why this version was not prepared as a redline strikeout.

The responses to the comments provided in the NOD letter (HWB-HAFB-07-007) dated May 14, 2012 were approved by the NMED in correspondence dated August 24, 2012. The responses to comments and the subsequent NMED approval letter are also provided in Attachments A-2 and A-3. In summary, this revised version of the SD-08 RCRA Facility Investigation Report has been revised to include eight quarters of groundwater data collected in 2012-13 and includes a revised human health risk assessment for the current commercial/industrial worker, the future resident and future construction worker following the methodology presented in the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b).

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REVISED FINAL
RCRA FACILITY INVESTIGATION REPORT
BUILDING 131 WASHRACK, SITE SD-08 (SWMU-82)
HOLLOMAN AIR FORCE BASE, NEW MEXICO

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Attachments

A NMED SD-08 Correspondence (2005 – 2014)
A-1 *Disapproval: RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08, Holloman Air Force Base, EPA ID# NM6572124422, HWB-HAFB-07-007* (NMED, May 12, 2012)
A-2 Response to NMED Comments: *RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico*, Bhate, July 2007 (Bhate July 6, 2012)
A-3 *Approval: Response to the Notice of Disapproval, RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08, Holloman Air Force Base, EPA ID# NM6572124422, HWB-HAFB-07-007* (NMED, August 24, 2012)
A-4 *Additional Investigation Requirements at Sites - SS-02&05, SD-08, SS-39, Holloman Air Force Base, EPA ID# NM6572124422,HWB-HAFB-04-009* (NMED, February 9, 2005)
A-5 *Request for Supplemental Information: Additional Investigation Requirements Work Plan, ERP Site SD-08 (SWMU 82 – Building 131 Washrack), May 2005, Holloman Air Force Base, EPA ID# NM6572124422, HWB-HAFB-05-003* (NMED, July 27, 2005)
A-6 *Notice of Approval: Additional Investigation Requirements Work Plan for ERP Site SD-08 (SWMU 82-Building 131 Washrack), August 2005 (Revision Number 1) Holloman Air Force Base, EPA ID# NM6572124422, HWB-HAFB-05-003* (NMED, December 29, 2005)
A-7 *Notice of Approval: Request to Perform Eight Quarters of Groundwater Monitoring, Site SD-08 (SWMU 82) Holloman Air Force Base, EPA ID# NM6572124422, HWB-HAFB-07-007* (NMED, November 22, 2011)
A-8 *Conditional Approval: SD-08 Long Term Monitoring Report, Quarter 1, Winter 2012, March 2012 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-12-008* (NMED, September 20, 2012)
A-9 *Conditional Approval: SD-08 Long Term Monitoring Report, Quarter 2, Spring 2012, June 2012 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-12-013* (NMED, October 5, 2012)
A-10 *Approval: SD-08 Long Term Monitoring Report, Quarter 3, Summer 2012, September 2012 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-12-018* (NMED, March 4, 2013)
A-11 *Approval: SD-08 Long Term Monitoring Report, Quarter 4, Fall 2012, December 2012 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-13-001* (NMED, October 16, 2013)

A-12 *Approval: SD-08 Long Term Monitoring Report, Quarter 5, Winter 2013, March 2013 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-13-003* (NMED, November 8, 2013)

A-13 *Approval: SD-08 Long Term Monitoring Report, Quarter 6, Spring 2013, May 2013 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-13-005* (NMED, November 5, 2013)

A-14 *Approval: SD-08 Long Term Monitoring Report, Quarter 7, Summer 2013, January 2014 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-13-019* (NMED, June 18, 2014)

A-15 *Approval With Modifications: SD-08 Long Term Monitoring Report, Quarter 8, Fall 2013, February 2014 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-14-002* (NMED, June 18, 2014)

B Technical Memorandum – *Temporary Monitoring Well Installation, SD-08 Holloman Air Force Base, New Mexico* (NationView, September 22, 2014) – (Provided on Enclosed CD)

Appendices (Provided on Enclosed CD)

A Historical Data from Previous Investigations
B Soil Boring Logs and Monitoring Well Construction Diagrams
C Field Sampling Documentation
D Analytical Data Packages
E Data Validation Reports

LIST OF ACRONYMS

AAF	Army Air Field
amsl	Above mean sea level
AOC	Area of Concern
ASTM	American Society for Testing and Materials
atm-m^3/mol	Atmospheric-cubic meters per mole
bgs	Below ground surface
Bhate	Bhate Environmental Associates, Inc.
CAC	Corrective Action Complete
°C	Degrees Celsius
CES/CEIE	Civil Engineering Squadron/Installation Flight Management Environmental
cm	Centimeters
CME	Central Mining Equipment
CMS	Corrective Measures Study
COCs	Contaminants of Concern
COPCs	Chemicals of potential concern
DPT	Direct push technology
4,4'-DDD	Dichlorodiphenyldichloroethane
4,4'-DDE	Dichlorodiphenyldichloroethylene
4,4'-DDD	Dichlorodiphenyltrichloroethane
EM	Exposure model
ERP	Environmental Restoration Program
°F	Degrees Fahrenheit
ft^2	Square feet
FS	Feasibility Study
g/mL	Grams per milliliter
GCAL	Gulf Coast Analytical Laboratories
H	Henry's law constant
HAFB	Holloman Air Force Base
HI	Hazard Index
HHMSSL	Human Health Medium Specific Screening Levels
IDW	Investigation Derived Waste
IELRC	Individual excess lifetime cancer risk
IRP	Installation Restoration Program
J&E	Johnson and Ettinger
LTM	Long-Term Monitoring
MCL	Maximum Contaminant Level
MDL	Method detection limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
mg/L	Milligrams per liter
mg/kg	Milligrams per kilogram
mg/kg-day	Milligrams per kilogram per day

MW	Monitoring well
NAD	North American Datum
NFA	No Further Action
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMWRRS	New Mexico Water Rights Reporting System
NMWQCC	New Mexico Water Quality Control Commission
NOD	Notice of Disapproval
OVA	Organic Vapor Analyzer
O/WS	Oil water separator
PA	Preliminary Assessment
PCBs	Polychlorinated Biphenyls
POL	Petroleum, Oil, and Lubricant
PRG	Preliminary Remediation Goal
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
%R	Percent recovery
RA	Risk Assessment
RAM	Risk Assessment Management
RAO	Remedial Action Objective
RBC	Risk Based Concentration
RCRA	Resource Conservation Recovery Act
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RL	Reporting Limit
RSL	Regional Screening Level
SCS	Soil Conservation Service
SI	Site Inspection
SOP	Standard Operating Procedure
SSLs	Soil Screening Levels
SVOC	Semi-volatile organic compound
SWMU	Solid Waste Management Unit
TAL	Target Analyte List
TCLP	Toxicity characteristic leaching procedure
TDS	Total dissolved solids
TPH	Total petroleum hydrocarbon
TPHCWG	Total Petroleum Hydrocarbon Criteria Working Group
TRPH	Total recoverable petroleum hydrocarbons
TVA	Toxic Vapor Analyzer
UCL	Upper confidence limit
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USDA	United States Department of Agriculture
UTL	Upper tolerance limit
VOC	Volatile organic compound

WRCC	Western Regional Climate Center
WSMR	White Sands Missile Range
WWTP	Wastewater Treatment Plant

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1 INTRODUCTION

NationView, LLC (NationView) was retained by the United States Army Corps of Engineers (USACE), Omaha District, under Contract W9128F-09-D-0055, Delivery Order No. 0003 (USACE, 2010) to conduct eight quarters of groundwater monitoring and prepare the revised version of the *Final RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08, Holloman Air Force Base (HAFB), New Mexico.* The primary objective of the SD-08 Additional Investigation was to fill in the data gaps to complete a comprehensive site-specific human health risk evaluation. Subsequent additional data gaps included further investigation of the soil and groundwater contamination associated with the upgradient site AOC-RR, further delineation of downgradient 1,2-DCA groundwater contamination and expanding the SD-08 monitoring well network. This revised Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) report summarizes the analytical results of the previous investigations (1991 through 2005), a remedial action (asphalt cap installed in 1997), the additional investigation (2006-07), the recent eight quarters of long term groundwater monitoring (2012-13) and includes a revised human health risk assessment.

Site SD-08 (Solid Waste Management Unit [SWMU] 82 – Building 131 Washrack) is listed on Table A on the HAFB Hazardous Waste Facility Permit No. NM6572124422, Appendix 4-A (NMED, 2012c), which requires the site to be investigated and undergo corrective action if warranted.

1.1 Background

The USACE, Omaha District, retained Bhate Environmental Associates, Inc., (Bhate) to conduct an Additional Investigation for Environmental Restoration Protection (ERP) Site SD-08 (SMWU 82) at HAFB, New Mexico under contract DACA45-03-D-0023, Task Order No. 0021 (USACE, 2005). The field activities for the Additional Investigation were initiated in October 2006 and were completed in January 2007.

Bhate prepared and submitted the *Final RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico* (Bhate, 2007) to the New Mexico Environmental Department (NMED) in July 2007. The Final SD-08 RFI Report included the findings from the Additional Investigation conducted in 2006-07. Upon review the NMED issued a Notice of Disapproval (NOD) letter on May 14, 2012 (Attachment A-1). The NOD required revising the human health risk assessment to include the current commercial/industrial worker, future resident and future construction worker following the methodology specified in the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b).

The objective of the additional investigation conducted at Site SD-08 in 2006-07 to collect soil and groundwater data to fulfill the data gap requirements identified by the NMED. The objectives stated in the *Additional Investigation Requirements Work Plan,*

ERP Site SD-08, Holloman Air Force Base, New Mexico (Bhate, 2005) were outlined in correspondence from the NMED to HAFB dated February 9, 2005, and July 27, 2005 (Attachments A-4 and A-5) and are summarized as follows:

1. Locate the two washrack drainage pits and advance two soil borings to characterize soil conditions under each drainage pit.

2. Install one upgradient monitoring well and one monitoring well downgradient of the washrack/drainage pits (based on previous investigations the groundwater flow direction was assumed to be to the southeast).

3. Analyze soil and groundwater samples for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), RCRA metals, organochlorine pesticides, and total dissolved solids (TDS) (water only).

4. Samples from these new wells should be collected on a quarterly or semi-annual basis over a two-year period.

Two additional subsurface soil samples will be analyzed for geotechnical parameters (dry bulk density, specific gravity, moisture content, and fractional organic carbon content). The geotechnical data will be used to complete a site specific risk assessment to determine the effect of releases on human health (Section 8).

The NMED reviewed the *Additional Investigation Requirements Work Plan, ERP Site SD-08, Holloman Air Force Base, New Mexico* (Bhate, 2005) and issued a Notice of Approval letter on December 29, 2005 (Attachment A-6).

1.2 Objectives

On November 22, 2011, the NMED approved HAFB's request to perform eight quarters of groundwater monitoring at Site SD-08 (Attachment A-7). Initially, the analytical parameters for the quarterly groundwater sampling conducted in 2012-13 included the collection of VOCs, Target Analyte List (TAL) metals (total and dissolved), General Chemistry parameters (nitrate-nitrite, chloride, fluoride and sulfate) and TDS samples from eight existing monitoring wells (MW) at the site (MW-08-01 through MW-08-08).

Upon completing the eight quarters of groundwater monitoring, the primary objective was to revise the previously submitted RFI report risk assessment to determine if there is an acceptable level of risk from complete exposure pathways to human receptors (current and future) at the site. If the risk is acceptable, HAFB will request a Certificate of Completion for Corrective Action Complete (CAC) under No Further Action (NFA) Criterion 5 (Appendix 4-B [NMED, 2004]) and obtain a Class III permit modification to remove SD-08 (SWMU-82) from Table A of the HAFB Hazardous Waste Facility Permit No. NM6572124422. NFA Criterion 5 states:

> *"The site was characterized or remediated in accordance with applicable state and/or federal regulations, and the available data indicate that contaminants pose an acceptable level of risk under current and projected future land use."*

1.3 Document Organization

This RFI Report is organized into the following 10 sections:

- Section 1 – Introduction
- Section 2 – Site Background, Regulatory Requirements and Previous Investigations
- Section 3 – Environmental Setting
- Section 4 – Source Characterization
- Section 5 – Field Activities
- Section 6 – Laboratory Analysis and Data Validation Summary
- Section 7 – Nature and Extent of Contamination
- Section 8 – Risk Based Evaluation
- Section 9 – Conclusions and Recommendations
- Section 10 – References

The tables and figures referenced throughout this RFI Report are included following the text (after Section 10). Attachments A-1 through A-10 provide all of the correspondence from the NMED regarding Site SD-08.

This report also includes the following seven appendices:

- Appendix A – Historical Data from Previous Investigations
- Appendix B – Soil Boring Logs and Monitoring Well Construction Diagrams
- Appendix C – Field Sampling Documentation
- Appendix D – Analytical Data Packages
- Appendix E – Data Validation Reports

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2 SITE BACKGROUND, REGULATORY REQUIREMENTS AND PREVIOUS INVESTIGATIONS

2.1 HAFB Facility Description and Operational History

HAFB is located in south central New Mexico, in the northwest central part of Otero County, approximately 75 miles north-northeast of El Paso, Texas (Figure 2-1). HAFB has a population of 6,000, and supports approximately 21,000 active-duty Air Force, National Guard, Air Force Reserve, retirees, civilians, and their family members. HAFB occupies approximately 60,000 acres in the northeast quarter of Section 1, Township 17 South, Range 8 East. The White Sands Missile Range testing facilities occupy additional land extending northward from the Base. Private and public owned lands border the remainder of HAFB. The major highway servicing HAFB is Highway 70, which runs southwest from the town of Alamogordo and separates HAFB from publicly owned lands to the south. Alamogordo is located approximately 7 miles east of the base and has a population of approximately 35,000.

HAFB was first established in 1942 as Alamogordo Army Air Field (AAF). From 1942 through 1945, Alamogordo AAF served as the training ground for over 20 different flight groups, flying primarily B-17s, B-24s, and B-29s. After World War II, most operations had ceased at the Base. In 1947, Air Material Command announced the air field would be its primary site for the testing and development of un-manned aircraft, guided missiles, and other research programs. On January 13, 1948, the Alamogordo installation was renamed Holloman Air Force Base, in honor of the late Col. George V. Holloman; a pioneer in guided missile research. In 1968, the 49th Tactical Fighter Wing arrived at HAFB and has remained since, conducting fighter aircraft training and operations. HAFB has also served as the German Air Force's Tactical Training Center since 1996.

2.2 Site SD-08 Site Description and Background

Site SD-08 is located in the southeastern corner of the refuse collection yard near Building 131. The former refuse collection truck washrack (SD-08) is located southwest of the Petroleum, Oil, and Lubricant (POL) Storage Area (ERP Site SS-02/05) and east of the Main Base area. The original yard occupied approximately one-half acre and was surrounded by a chain-link fence. Within the fenced area were Building 131, a steam cleaner washrack with associated drains, and an oil/water separator (O/WS). The yard was unpaved with sparse vegetation only along the fence. The topography of the site is generally flat. Figure 2-2 shows the location of SD-08 at HAFB.

The washrack was installed in 1942 and consisted of a rectangular concrete pad (approximately 1,000 square feet [ft^2]). Refuse collection trucks (trash trucks) and equipment were routinely washed with soap and water at the washrack, and the rinse water discharged to the HAFB sewer system. Base records indicate that pesticides

were routinely sprayed inside the trucks during the 1970s for fly control; however, this practice ceased in 1982. Drains located at the north end of the washrack connected to a sewer line that carried wastewater to an O/WS near the northwest corner of the washrack. According to site personnel, it was common for the sewer line from the washrack to clog, causing the sump and O/WS to overflow onto the surrounding soil at the northwest end of the washrack. Other areas of concern included oil stains in the soil throughout the yard. The washrack contained cracks in the concrete and was replaced in 1992 with a new washrack in the same location. The O/WS was abandoned in place. In 1995 the entire yard area was covered with an asphalt cap as part of the remedial measures performed at the site.

2.3 Regulatory Requirements and Applicable Screening Criteria

On February 24, 2004, the NMED issued the *Holloman Air Force Base Hazardous Waste Facility Permit No. NM6572124422* (NMED, 2004). The regulatory requirements for this project as specified in the HAFB permit include the following:

- Permit Part 4, *Corrective Action*, Section L, *Voluntary Corrective Measures*
- Permit Part 4, Appendix 4-A, Table A Solid Waste Management Units (SWMUs) and AOCs Requiring Corrective Action (NMED, 2012c)
- Permit Part 4, Appendix 4-B, Section III, Determination of No Further Action
- Permit Part 4, Appendix 4-F, *Action Levels and Cleanup Levels*

Soil and groundwater analytical data obtained from previous investigations (1991 – 2005) and more recent investigations (2006 through 2013) conducted at Site SD-08 is evaluated against the most recent applicable regulatory action levels and cleanup levels which are presented in Appendix 4-F of the HAFB Hazardous Waste Permit (NMED, 2004). The soil and groundwater data collected from these investigations will consist of a direct comparison to the applicable action levels. The concentrations of each contaminant detected above the method detection limit (MDL) will be used for comparison. The applicable action levels are presented in the analytical data summary tables for the analytes and media of concern for each investigation. The following sections present the regulatory criteria used to evaluate soil and groundwater samples collected at Site SD-08.

2.3.1 Soil Screening Criteria

2.3.1.1 VOCs, SVOCs, Pesticides, PCBs, and Metals

The risk based action levels for unrestricted land use provided in Appendix A, Table A-1 (NMED Soil Screening Levels [SSLs]), *Risk Assessment Guidance for Site*

Investigations and Remediation (NMED, 2012b) will be used as the primary screening levels for VOCs, SVOCs, pesticides, polychlorinated biphenyls (PCBs), and metals. As per the HAFB Permit, Appendix 4-F V.1 (NMED, 2004) if a NMED soil cleanup level has not been established for a particular chemical of potential concern (COPC) (e.g. 2-methylnaphthalene) that constituent will be compared to the U.S. Environmental Protection Agency (USEPA) Region 6 Human Health Medium Specific Screening Level (HHMSSL). However, under an Interagency Agreement as an update of the USEPA Region 3 Risk-Based Concentration (RBC) Table, Region 6 HHMSSL Table, and the Region 9 Preliminary Remediation Goal (PRG) Table; the Region 6 HHMSSLs have been combined into the Regional Screening Level (RSL) Summary Table (USEPA, 2013). Additionally, all detected metals will be compared to their respective NMED approved background levels (Table 1, NMED, 2011b).

2.3.1.2 Total Petroleum Hydrocarbons

The action levels for total petroleum hydrocarbons (TPH) are established in Table 6-3 (TPH Screening Guidelines – Vapor Migration and Inhalation of Groundwater) of NMED's *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b). The TPH screening guideline (residential direct exposure) for diesel #2/crankcase oil (1,000 milligrams per kilogram [mg/kg]) (Table 6-3, NMED, 2012b) will be used as the action level for comparing detected concentrations of TPHs (combined gasoline range organics [GRO], diesel range organics [DRO], and oil range organics [ORO]).

2.3.2 Groundwater Screening Criteria

2.3.2.1 VOCs, SVOCs, Pesticides, PCBs, General Chemistry and Metals

As per Appendix 4-F (NMED, 2004), there are two applicable action levels for VOCs, SVOCs, Pesticides, and metal contaminants detected in groundwater, the New Mexico Water Quality Control Commission (NMWQCC) groundwater cleanup levels for contaminants (New Mexico Administrative Code [NMAC] 20.6.2.3103) and the USEPA's *National Primary Drinking Water Regulations* (USEPA, 2009) Maximum Contaminant Levels (MCLs). The lower of the two standards will be used as the screening levels for VOCs, SVOCs, pesticides, metals and general chemistry parameters (e.g., chloride, fluoride, nitrate and sulfate). In addition, as per an NMED e-mail dated January 18, 2012 (NMED, 2012a), unfiltered (total) metals will be compared to the USEPA MCLs (USEPA, 2009) and filtered (dissolved metals) will be compared to the NMWQCC groundwater standards (NMAC 20.6.2.3103). Unfiltered (total) TAL metals will also be compared to the NMED Approved Background Levels for Unfiltered (Total) Constituents in Groundwater (Table 2, NMED 2011) and filtered (dissolved) TAL metals will also be compared to the NMED Approved Background Levels for Filtered (Dissolved) Constituents in Groundwater (Table 3, NMED 2011).

2.3.2.2 Total Dissolved Solids

There are also two applicable standards for TDS, the NMWQCC groundwater standards for contaminants (NMAC 20.6.2.3103) and the USEPA's *National Primary Drinking Water Regulations* Secondary MCLs (USEPA, 2009). The lower of the two standards (500 mg/L) will be used as the action level for TDS.

2.4 Summary of Previous Investigations and Remedial Actions

This section presents an overview of the previous investigations and the remedial action conducted at site SD-08. Since 1991, site SD-08 has been the subject of a series of environmental investigations and a remedial action related to pesticide contamination detected in the soil and groundwater. This section provides a historical overview and chronology of the previous investigations conducted at site SD-08 from 1991 through 2005. The chronology of previous investigations and remedial action conducted at SD-08 is based on information provided in the reports referenced below.

- *Installation Restoration Program Phase I Records Search, Holloman Air Force Base, New Mexico,* 1983, CH2M Hill.
- *Draft Final Remedial Investigation Report, Investigation, Study and Recommendation for 29 Waste Sites, Holloman Air Force Base, New Mexico, Volume I*, 1992, Radian.
- *Draft Final Corrective Measures Study Plan, Investigation, Study and Recommendation for 29 Waste Sites, Holloman Air Force Base, New Mexico*, 1992, Radian.
- *Draft Final Feasibility Study, Investigation, Study and Recommendation for 29 Waste Sites, Holloman Air Force Base, New Mexico*, December 1993, Radian.
- *Draft Final Phase II RCRA Facility Investigation Report, Table 1 Solid Waste Management Units*, *Holloman Air Force Base, New Mexico, Volume I*, 1995, Radian.
- *Decision Documents Installation Restoration Program, Holloman Air Force Base, New Mexico*, 1995, Radian.
- *Draft Final Site Investigation Report Waste Sites SS-06, SD-15, AOC-RR, and AOC-BBMS, Holloman Air Force Base, New Mexico*, 1995, Ebasco/Groundwater Technology.
- *2005 Long-Term Groundwater Monitoring Report, Holloman Air Force Base, New Mexico*, 2006, Bhate.

Site SD-08 was identified as a potential contaminant source during the Installation Restoration Program (IRP) Phase I Records Search (CH2M Hill, 1983). As a result, the site was investigated under Phase I of the IRP as Site SD-08 in 1991. The ensuing *Remedial Investigation Report, Investigation, Study and Recommendation for 29 Waste Sites* (Radian, 1992a) indicated that pesticide contamination was present in the shallow soil and in the groundwater at site SD-08. The associated risk evaluation concluded that pesticide concentrations in soil posed an occupational health risk. To mitigate this risk, the site entered into the Feasibility Study/Corrective Measures Study (FS/CMS) process, which established health based cleanup criteria, identified the area exceeding these cleanup criteria, and recommended the installation of an impermeable cap. The Phase II RFI (Foster Wheeler/Radian, 1995) delineated the extent of organochlorine pesticide contamination in groundwater. In 1996, SD-08 was recommended for long-term groundwater monitoring to ensure that the remedial action was preventing further degradation of groundwater.

A brief summary of the analytical results for these previous investigations, based on reports reviewed are discussed in the following subsections. Soil boring and monitoring well locations for these previous investigations are shown on Figure 2-3. In addition, summary tables and figures depicting sampling locations from the previously referenced reports are included in Appendix A of this report.

2.4.1 SD-08 Remedial Investigation

In 1991, Radian Corporation conducted a remedial investigation at Site SD-08 as part of the 29 Waste Sites Investigation. The following information was obtained from the *Draft Final Remedial Investigation Report, Investigation, Study and Recommendation for 29 Waste Sites Holloman Air Force Base, NM Volume I* (Radian, 1992a). The Remedial Investigation (RI) at SD-08 was performed to evaluate soil and groundwater conditions in potential contaminant source areas. Six soil borings (SB-08-01 to SB-08-06) were advanced to depths ranging from approximately 20 to 24 feet below existing grade. Two monitoring wells (MW-08-01 and MW-08-02) were installed at the locations shown on Figure 2-3. The locations of two new monitoring wells were based on an assumed south-southwest groundwater. Therefore, the two wells were installed in assumed downgradient locations with respect to the washrack. However, based on water levels collected during the RI the local groundwater flow direction at SD-08 is influenced by the Dillard Draw drainage system and was determined to be to the northeast. Groundwater samples were collected from the two new wells and from one existing well (MW-08-03 [S10-MW07]) associated with ERP Site LF-10 (Figure 2-3). The following samples were collected and submitted for laboratory analysis:

- Twelve soil samples were collected from the six soil borings and analyzed for VOCs, total recoverable petroleum hydrocarbons, organochlorine pesticides, organophosphorus pesticides, PCBs, and total metals;

- Three groundwater water samples from the three monitoring wells (MW-08-01 to

MW-08-03) were analyzed for VOCs, organochlorine pesticides and PCBs, organophosphorus pesticides, general chemistry, total metals, and TDS;

- Two soil samples collected from monitoring well borings were analyzed for geotechnical parameters; and
- In-situ permeability (slug) tests were performed on the two new monitoring wells and one existing monitoring well.

A sampling location map and the groundwater and soil analytical data collected during this investigation are included in Appendix A-1 of this report. The prevalent organic constituents detected in soil samples were the organochlorine pesticides. Surface soil samples from the soil borings located around the washrack contained the highest concentrations of organochlorine pesticides. The maximum detections of organochlorine pesticides identified in the soil samples were dichlorodiphenyldichloroethane (4,4-DDD) (4,000 micrograms per kilogram [µg/kg]), dichlorodiphenyldichloroethylene (4,4-DDE) (5,600 µg/kg), dichlorodiphenyltrichloro-ethane (4,4-DDT) (9,300 µg/kg), and chlordane (4,000 µg/kg). All maximum concentrations were detected in one soil sample collected from 0 to 2 feet below grade at soil boring SB-08-02 located southeast of the washrack. All concentrations of organochlorine pesticides were below the current NMED soil screening levels (SSLs) (NMED, 2012b) and significantly attenuated with depth. No PCBs or organophosphorus pesticides were detected in any soil samples. With the exception of methylene chloride, all VOCs were detected at estimated concentrations below the detection limit. Methylene chloride, a common laboratory contaminant was present in several samples but was also detected in the laboratory blanks making these detections suspect. Total recoverable petroleum hydrocarbons (TRPH) were identified in several oil stained surface soil samples due to small leaks from refuse trucks parked at the wash rack and the steam cleaner and declined sharply with depth. The highest detections of TRPH were detected in the surface soil samples collected from SB-08-02 (1,320 mg/kg), SB-08-03 (1,740 mg/kg) and SB-08-04 (9,950 mg/kg) exceeded the TPH screening guideline for diesel #2/crankcase oil (1,000 mg/kg). All soil samples collected below 2 feet had TRPH concentrations less than 35.8 mg/kg. In addition, all metal concentrations detected in the soil samples were also below their respective NMED SSLs (NMED, 2012b). The soil boring logs for this investigation are included in Appendix B-1 of this RFI Report.

Groundwater samples were collected from the three monitoring wells. Several VOCs were detected in the groundwater samples, however most were below the method detection limit. The highest concentrations of VOCs were detected in upgradient well MW-08-01 where the concentrations of benzene (10,000 micrograms per liter [µg/L]) and ethylbenzene (1,600 µg/L) exceeded their USEPA MCLs (5 µg/L and 700 µg/L, respectively). In addition, 1,2-dichloroethane (1,2-DCA) and 1,2-dichloropropane (1,2-DCP) were detected above their USEPA MCL (5 µg/L) in monitoring wells MW-08-03 (8.0 µg/L) and MW-08-01 (8.3 J µg/L), respectively (see Table 4-26, Appendix A-1). All

other VOCs were detected below their current applicable screening levels. Several organochlorine pesticides including aldrin, chlordane, dieldrin, heptachlor, heptachlor epoxide, and gamma-BHC, were all detected below the USEPA MCLs in monitoring wells MW-08-01 and MW-08-03. Organophosphorus pesticides were not detected in any of the monitoring wells. With the exception of arsenic and lead all metals were detected below their respective USEPA MCLs and NMWQCC standards. Arsenic was detected above the USEPA MCL (10 µg/L) in monitoring wells MW-08-01 (0.011 mg/L) and MW-08-03 (0.011 mg/L). Lead was detected above the USEPA MCL (15 µg/L) in monitoring well MW-08-01 (0.021 mg/L). The maximum concentrations of chloride (1,700 [mg/L], MW-08-03]), sulfate (3,800 mg/L, MW-08-03) and nitrate (19 mg/L, MW-08-03) were detected above their applicable screening levels. However, the maximum detections of chloride and sulfate were below their NMED approved background values (Table 2, NMED, 2011b) (35,039.73 mg/L and 17,418.99 mg/L, respectively). TDS in groundwater ranged from 2,800 mg/L (MW-08-02) to 15,000 mg/L (MW-08-03) and exceeded both the USEPA Secondary MCL (500 mg/L) and the NMWQCC standard (1,000 mg/L).

The associated risk assessment screen indicated an unacceptable risk for Site SD-08 and recommended that that the site should proceed beyond the remedial investigation/feasibility study (RI/FS) stages into the FS/CMS process. The SD-08 RI report also concluded that VOC concentrations detected in upgradient monitoring well MW-08-01 were not due to SD-08 site activities (Radian, 1992a). It was also determined that the potential sources for volatile organic constituents detected in the groundwater at SD-08 include several former underground storage tanks used to store waste fuels, located across the street 100 feet west of the site, south of Building 80 (later designated as ERP Site Area of Concern [AOC]-RR).

2.4.1.1 Site AOC-RR Upgradient VOC Groundwater Impacts at Site SD-08

As a result of the findings presented in the SD-08 Remedial Investigation Report (Radian, 1992a) a Preliminary Assessment (PA)/Site Inspection (SI) was conducted at AOC-RR in 1994 and 1995 (EBASCO/Groundwater Technology, 1995). The objective of the SI at AOC-RR was to assess the potential for soil and groundwater contamination associated with the two areas (Building 80 and the former underground storage tank area) that comprise AOC-RR that are located approximately 100 feet upgradient of SD-08 (Figure 2-3). The following information was obtained from the *Draft Final Site Investigation Report Waste Sites SS-06, SD-15, AOC-RR and AOC-BBMS Holloman Air Force Base, NM Volume I* (Ebasco/Groundwater Technology, October 1995). No TPH or VOCs were detected in the 13 soil samples collected from the six AOC-RR soil borings (AOC-RR-SB01 through AOC-RR-SB06). However, elevated VOCs were detected in 11 of the 16 groundwater samples collected at AOC-RR (AOC-RR-GP-01 through AOC-RR-GP-16). The maximum concentrations of benzene (3,300 µg/L, AOC-RR-GP-11), 1,2-DCA (440 µg/L, AOC-RR-GP-06), 1,2-DCP (20 µg/L, AOC-RR-GP-05), ethylbenzene (1,000 µg/L, AOC-RR-GP-06), toluene (1,600 µg/L, AOC-RR-GP-13) and xylenes (3,200 µg/L, AOC-RR-GP-13) exceeded current screening levels (NMWQCC

and/or USEPA MCLs) and indicate that a historical release had occurred at site AOC-RR. Additionally the downgradient groundwater sampling location AOC-RR-GP-16 (located adjacent to MW-08-01) contained concentrations of benzene (40 µg/L) and 1,2-dichloroethane (290 µg/L) above the USEPA MCLs (5 µg/L). No Further Action was recommended for AOC-RR and the site is currently listed in Table B of the Holloman AFB Permit (NMED, 2012c). A sampling location map and the groundwater and soil analytical data collected during this investigation are included in Appendix A-2 of this report.

2.4.2 SD-08 Feasibility Study

After reviewing the RI Report (Radian, 1992a) the EPA Region VI issued a letter to HAFB to install additional soil borings to define the extent of soil contamination and to install additional monitoring wells to define the extent of pesticide contamination in the groundwater. To mitigate the risk associated with pesticides in soil at SD-08, the site entered into the FS/CMS process. The following additional investigations were conducted at Site SD-08:

- The Corrective Measures Study in 1992 (Radian, 1992b);
- The Feasibility Study in 1993 (Radian, 1993); and
- The RCRA Facility Investigation in 1994 (Foster Wheeler/Radian, 1995).

The Corrective Measures Study Plan (Radian, 1992b) established health-based remedial action objectives (RAOs) for soil contamination at the site. To determine the vertical and lateral extent of pesticide and metals soil contamination exceeding the cleanup criteria, a Pre-Design Investigation (PDI) was conducted in 1993.

The following information was obtained from the *Draft Final Feasibility Study, Investigation, Study and Recommendation for 29 Waste Sites, Holloman Air Force Base, New Mexico* (Radian, 1993). During the PDI, 14 soil borings (SB-08-07 through SB-08-20) were installed to the groundwater table (Figure 2-3). A total of 25 soil samples (including one duplicate) were collected from the 14 soil borings. Eight samples were analyzed for cadmium, lead, mercury, and all 25 samples were analyzed for organochlorine pesticides. In addition, toxicity characteristic leaching procedure (TCLP) pesticides and metals analysis were performed on samples collected from SB-08-10, SB-08-13, and SB-08-17. The complete analytical results from the soil samples collected during the PDI were presented in the Feasibility Study Report (Radian, 1993). All pesticide and metal concentrations detected in these soil samples were below their current respective NMED SSLs (NMED, 2012b). In addition, the concentrations for the TCLP pesticides and metals analyses did not exceed the regulatory levels for the toxicity characteristic.

However, concentrations of cadmium, lead, mercury, 4,4-DDD, 4,4-DDE, 4,4-DDT, and chlordane detected in soil samples collected from SB-08-01, -02, -03, -04. -06, -10, -12,

and -13 exceeded the cleanup criteria established in the CMS Plan (Radian, 1992b). The depth of contaminated soils was estimated to extend to 2 to 4 feet below ground surface. Results from the PDI also indicated that the area exceeding the established cleanup criteria was approximately 20,800 square feet and encompassed the southern half of the refuse yard. A total volume of 1,610 cubic yards was estimated to exceed the cleanup criteria. Based on the detailed evaluation presented in the FS Report (Radian, 1993) source containment (installation of an impermeable asphalt cap over the affected soils) was selected as the most effective remedial alternative. A sampling location map, the groundwater and soil analytical data collected during this investigation and the soil clean up criteria are included in Appendix A-3 of this report.

2.4.3 SD-08 RCRA Facility Investigation Report

To determine the extent of organochlorine pesticides in the groundwater the Phase II RFI was conducted by Foster Wheeler/Radian in 1994. The following information was obtained from the *Draft Final Phase II RCRA Facility Investigation Report Table 1 Solid Waste Management Units, Holloman Air Force Base, NM* (Foster Wheeler/Radian, 1995). During this investigation groundwater samples were collected from seven temporary wells (HP-08-01 to HP-08-07) using a direct push technology (DPT) drill rig located downgradient of SD-08. The pesticide screening results of the DPT groundwater samples were used to locate three new permanent monitoring wells (MW-08-04, MW-08-05, and MW-08-06) located downgradient of SD-08. Groundwater samples were collected from the three new wells and two existing wells (MW-08-03 and HTSE-10-MW-01 [S10-MW01]). The monitoring well locations for this sampling event are also shown on Figure 2-3. The five groundwater samples collected from the monitoring wells were analyzed for organochlorine pesticides using EPA Method SW8080.

Low and estimated concentrations of eight organochlorine pesticides were detected in the five groundwater samples collected during this sampling event. The highest concentrations of organochlorine pesticides were detected in monitoring well MW-08-03 which is located immediately downgradient of SD-08 washrack. Heptachlor epoxide was detected in monitoring wells MW-08-03 (0.16 µg/L) and MW-08-05 (0.033 µg/L). These concentrations were both below the USEPA MCL (USEPA, 2009) for heptachlor epoxide (0.2 µg/L). The monitoring wells located further downgradient (MW-08-04, MW-08-06, and HST-10-MW-01) contained only estimated delta-BHC and 4,4'-DDD concentrations. The RFI report (Foster Wheeler/Radian, 1995) recommended a voluntary corrective action (impermeable cap) for SWMU 82 (SD-08) and long-term groundwater monitoring to ensure that the remedial action prevented the degradation of groundwater. A sampling location map and the groundwater analytical data collected during this investigation are included in Appendix A-4 of this report.

2.4.4 SD-08 Decision Document

The SD-08 Feasibility Study recommended an asphalt cap as the preferred remedial action for the site. The SD-08 Decision Document (Radian, 1995) presented a summary of background, risks, and the selected remedy (asphalt cap). The components of the selected remedy included the following:

- Placement of an impermeable cap over the affected soils;
- Installation of a chain-link fence to restrict access to the site;
- Annual inspection and maintenance of the cap; and
- Long-term groundwater monitoring to ensure the effectiveness of the remedial action.

In January 1997, an asphalt cap covering an area with pesticide soil concentrations exceeding the cleanup criteria (approximately 41,000 ft^2) was installed in the area of the former washrack. A map of the selected remedy and a cross-section of the asphalt cover at SD-08 are shown in Appendix A-5 of this RFI Report.

2.4.5 SD-08 Long-Term Groundwater Monitoring

The Long-Term Monitoring (LTM) Program was designed as a 10-year program with monitoring performed once every two years. The SD-08 Decision Document (Radian, 1995) established the requirement for LTM as a condition of site closure. The objective of the LTM at SD-08 was to ensure that degradation to groundwater quality was not occurring or continuing. The LTM sampling events at SD-08 were conducted in August 1995, September 1997, September 1999, September 2001, April 2003, and December 2005. During the 2005 LTM Program, groundwater samples were collected from the following four monitoring wells: MW-08-03, MW-08-04, MW-08-05, and MW-08-06 (MW-08-01 was dry). Groundwater samples were analyzed for VOCs, metals (arsenic, barium, iron, manganese, and selenium), and TDS. However, the groundwater sample collected from MW-08-06 was only analyzed for TDS.

The 2005 LTM Program concluded the sixth sampling event for SD-08 (Bhate, 2006). Manganese in wells MW-08-04 (225 µg/L) and MW-08-05 (255 µg/L) was the only contaminant detected above applicable screening levels (USEPA MCLs and the NMWQCC Standards) at SD-08 during the 2005 event. 1,2-Dichloroethane was detected in groundwater at MW-08-01 (73 µg/L) during the 2003 LTM event at a concentration greater than the USEPA MCL (5 µg/L). This result was not confirmed during the 2005 event as the well was dry. TDS concentrations ranged from 2,500 mg/L (MW-08-05) to 20,300 mg/L (MW-08-06) and exceeded both the USEPA Secondary MCL (500 mg/L) and the NMWQCC standard (1,000 mg/L). The results from the six LTM sampling events are presented in Appendix A-6 of this RFI report.

3 ENVIRONMENTAL SETTING

The following subsections present the environmental setting. This information was obtained primarily from the *Draft Final Remedial Investigation (RI) Report, Investigation, Study and Recommendation for 29 Waste Sites* (Radian, 1992), unless cited otherwise.

3.1 Physiography and Topography

HAFB is located within the Sacramento Mountains Physiographic Province on the western edge of the Sacramento Mountains. HAFB is approximately 60,000 acres in area, and is located at a mean elevation of 4,093 feet above mean sea level (amsl). The region is characterized by high tablelands with rolling summit plains; cuesta-formed mountains dipping eastward and of west-facing escarpments with the wide bracketed basin forming the basin and range complex. The Base is located within the Tularosa Basin, which is part of a 170 mile long structural depression. The boarding mountains rise abruptly to altitudes of 7,000 to 12,000 feet amsl. The San Andres Mountains bound the basin to the west (about 30 miles) with the Sacramento Mountains approximately 10 miles to the east. At its widest point, the basin is about 60 miles east to west and stretches approximately 150 miles north to south (Figure 2-1).

The Tularosa Basin is a closed basin that contains all of the surface flow within its boundaries. Surface runoff from the surrounding mountains has deposited alluvial fans on the interior of the plain. Around the Base, the ground surface is undulating comprised of alluvial fan deposits, eolian dunes, and flat bottomed playas (pan shaped depressions carved by wind erosion). To the west of the Base lie the gypsum sand dune fields of the White Sands National Monument. A topographic map of the base is provided as Figure 3-1.

Site SD-08 is located in the eastern portion of the industrialized main base area near the intersection of Arkansas Avenue and Creosote Avenue (Figure 3-1). The local ground surface is relatively flat and is entirely paved with asphalt.

3.2 Surface Water and Hydrology

Within the boundaries of the Base, surface water runoff is controlled by several arroyos (channel of an ephemeral stream) that trend to the southwest (Figure 3-2). Because of the high net evaporation of rainfall, there are no natural perennial streams within the boundary of Holloman AFB. Intermittent streams and arroyos in the basin lowlands are important only during infrequent periods of heavy rainfall. The Tularosa Basin contains all of the surface flow within its boundaries. The nearest inflow of surface waters to the Base comes from the Lost River, located in the north-central region of the Base. The Lost River Drainage Basin is the main drainage area within the boundaries of HAFB (Figure 3-2). Surface water is not present at Site SD-08. Due to the flat topography and asphalt pavement cap the local drainage is generally radial during rainfall events.

HAFB is dissected by several other southwest trending arroyos that control the surface drainage. Hay Draw arroyo is located in the far north. Malone and Rita's Draw, which drain into the Lost River and Dillard Draw arroyos are located along the eastern perimeter of the Base (Figure 3-2). Approximately 10,000 years ago, indications are of a much wetter climate. The present day Lake Otero encompassed a much larger area, possibly upwards of several hundred square miles. Its remains are the Alkali Flat and Lake Lucero. Lake Lucero is a temporary feature of merely a few inches in depth during the rainy season.

Potable water is available from municipal wells along the margins of the basin with more saline water towards the center. The principal sources of potable water are located in a long narrow north-south trending area on the upslope sides of Tularosa and Alamogordo and in the far southern part of the basin. HAFB is also supplied potable water from Lake Bonito, which is in the Pecos River Basin.

The hydrology of the southern portion of the Base (south of the wastewater treatment plant) is dominated by several manmade features that form a connected hydrologic system. The principal components of this system are: the stormwater drainage canal, Lagoon G, Lake Holloman, and Lake Stinky. In addition, there are both natural and constructed wetlands in this area, some of which are related to and dependent on the manmade surface water features.

HAFB currently generates under 1 million gallons per day (MGD) of wastewater. This effluent is discharged into a holding tank for irrigating the HAFB Golf Course; the excess effluent is routed to Lagoon G and diverted to Lake Holloman located north of Highway 70. A berm surrounding this lagoon prevents stormwater from flowing into the lagoon. The stormwater drainage canal starts at a point north of Lagoon G, and then extends southwest of the lagoon into Lake Holloman. The canal is about 2 feet wide and 1 mile long with an elevation change of about 5 feet between Lagoon G and Lake Holloman. The canal also receives effluent from Lagoon G.

Lake Holloman was created in 1965 to receive excess flow from the previous sewage treatment lagoon system. It was formed by the construction of a non-engineered earthen dam midway along an existing ephemeral lake (playa) that normally received runoff from HAFB. Lake Holloman receives water from the stormwater drainage canal, Lagoon G, and effluent from the wastewater treatment plant (WWTP). The amount of effluent going to Lake Holloman can be adjusted depending on the water requirements of Lagoon G and the constructed wetlands. The lake is in a state of dynamic equilibrium, rising and falling with seasonal and annual variations in runoff, local shallow groundwater, and treated effluent from the WWTP.

Lake Stinky encompasses as much as 35 acres of playa below Lake Holloman. This area represents a remnant of the original playa grassland present in the project area prior to the construction of the lagoon system for the original wastewater treatment system in 1948. Persistent seepage from Lake Holloman is sufficient to maintain a limited surface water expression in Lake Stinky, as well as a substantial growth of

wetland vegetation (tamarisk and saltgrass) at the base of the dam separating Lake Stinky and Lake Holloman. During most years, total annual discharge to Lake Holloman is sufficient to result in overflow to Lake Stinky. On these occasions, Lake Stinky extends south from the dam through culverts underneath U.S. Highway 70/82 to encompass as much as 61 acres.

There are approximately 119 acres of jurisdictional wetlands on the main base (United States Air Force, 1996), the majority of which are located south of the WWTP near Lagoon G and Lake Holloman (79 acres). Some of these areas are fed partly by seepage from artificial impoundments (e.g., north end of Lake Stinky; west and south of Lagoon G). Others may have an independent existence, or be only slightly affected by the impoundments. These latter areas seem to be remnants of the wetlands that existed before the construction of the present system. Many of the wetlands located south of the WWTP are important foraging areas for resident and migrating birds and/or bats.

3.3 Regional Geology

The Tularosa Basin is the easternmost extension of the Basin and Range Province of the western United States. The Basin and Range was created by Cenozoic extensional (normal) faulting of Precambrian- through Tertiary-age sedimentary and igneous rocks. The basin is a horst and graben structure, or a downthrown block, bounded by the upthrown fault blocks of the San Andres and Sacramento Mountains.

During the Permian period of the Paleozoic era (approximately 270 million years ago), southern New Mexico was covered by a shallow sea. Limestone and sandstone were deposited, forming thick sedimentary units. Toward the end of the Mesozoic era (approximately 70 million years ago), the major mountain building activities that formed the Rocky Mountains took place. During these events, southern New Mexico emerged from the ocean as the earth's crust upwarped gently in this region. During the Cenozoic era (beginning approximately 70 million years ago), basin and range formation was initiated in what is now the southwestern United States. Approximately 10 million years ago, Cenozoic faulting formed the horst and graben structure known as the Tularosa Basin. During this process, arched portions of rock collapsed between large-scale, north-south trending faults. The Tularosa Basin is a central downthrown area, bounded on the east and west by fault block mountains. Bedded Permian strata can be seen along the faces of the Sacramento and San Andres Mountains. Permian limestones also occur west of HAFB in a low bedrock outcrop near Hurtz Spring. In the millions of years following, rainfall, snowmelt, and wind eroded the mountain sediments depositing them in the valley (i.e. Tularosa Basin). Water carrying eroded limestone, dolomite, gravel, and other matter continue to flow into the basin. A generalized cross-section of the Tularosa Basin is shown in Figure 3-3.

As the Tularosa Basin is a bolson, which is a basin with no surface drainage outlet, sediments carried by surface water into a closed basin are bolson deposits. The

overlying alluvium generally consists of unconsolidated gravels, sands, and clays. The bolson sediments within the Tularosa Basin are derived from the adjacent ranges as erosional deposits of limestone, dolomite, and gypsum. Coarser material is deposited at the base of the mountains while finer material is carrier to the basin's interior. The bolson fill deposits thin out from Alamogordo to less than 100 feet near Hurtz Spring. Bolson fill deposits are 8,000 feet thick or more in the central portion of the Tularosa Basin.

Near-surface geologic conditions at HAFB have been established during this and numerous other ERP investigations. The near-surface bolsom deposits at HAFB consist of sediments that are alluvial, eolian, and lacustrine in origin. The alluvial fan deposits are laterally discontinuous units of interbedded sand, silt, and clay while the eolian deposits consist primarily of gypsum sands. The eolian and alluvial deposits are usually indistinguishable because the wind simultaneously reworks alluvial fan sediments and deposits gypsum sands resulting in an intermingling of the two sediment types. The playa (a shallow basin of a desert plain), created by lacustrine deposits, consist of medium to high plastic clay containing gypsum crystals and are contiguous with the alluvial fan and eolian deposits throughout HAFB. There has been the identification of stiff caliche layers, varying in thickness, at different areas of the Base. A generalized near surface cross-section for HAFB is shown in Figure 3-4.

3.4 Soils

The United States Department of Agriculture (USDA) Soil Conservation Service has identified two soil associations in the vicinity of HAFB; the Holloman-Gypsum Land-Yesum complex, and the Mead silty clay loam. The permeability of these horizons ranges from $4x10^{-4}$ to $1\ x10^{-3}$ centimeters per second. The distribution of soils in the vicinity of HAFB is depicted on Figure 3-5 (USDA, 1981).

The Holloman-Gypsum land-Yesum complex, 0 to 5 percent slopes soil consists of large areas of shallow and deep, well drained soils and areas of exposed gypsum. The Holloman soil makes up about 35 percent of the complex. Typically, the surface layer is light brown very fine sandy loam about 3 inches thick. The upper 13 inches of the substratum is pink very fine sandy loam that is very high in gypsum. Below that, the substratum is white gypsum to a depth of more than 60 inches. This soil is calcareous and mildly alkaline to moderately alkaline throughout. Permeability is moderate, and available water capacity is very low.

Gypsum land makes up about 30 percent of the Holloman-Gypsum land-Yesum complex, 0 to 5 percent slopes. Typically, less than 1 inch of very fine sandy loam overlies soft to hard, white gypsum. The deep Yesum very fine sandy loam makes up about 20 percent of the complex. Typically, the surface layer is light brown very fine sandy loam about 3 inches thick. The upper 9 inches of the substratum is light brown fine sandy loam that is very high in gypsum. Below that, the substratum is pink very fine sandy loam to a depth of more than 60 inches. The soil is calcareous throughout and is

mildly alkaline. Permeability is moderate, and available water capacity is moderate. Many fine gypsum crystals are found throughout the profile.

The soil type located across the main drainage area for the installation is Mead silty clay loam, 0 to 1 percent slopes. This deep, poorly drained, nearly level soil is on outer fringes of alluvial fans. This soil formed in fine textured alluvium over lacustrine lake sediment. It is very high in salt content because of periodic flooding and poor drainage. Slopes are smooth and concave. Typically, the surface layer is reddish brown silty clay loam and clay loam about 5 inches thick. The substratum, to a depth of 48 inches, is light reddish brown clay that has a high content of salts. Below that, the substratum is lacustrine material of variable texture and color to a depth of more than 60 inches. Included with this soil are areas of Holloman soils and Gypsum land along the margins of the unit of steep, short gully sides and knolls. These inclusions make up about 15 percent of the map unit for this soil type. Individual areas are generally smaller than 10 acres. This soil is moderately calcareous throughout and is moderately to strongly alkaline. It has a layer of salt that is more soluble than gypsum. Permeability is very slow, and available water capacity is low.

3.5 Regional Hydrogeology

The majority (over 70 %) of the ERP Sites, SWMUs, and AOCs located across HAFB have groundwater monitoring wells containing water with an average TDS concentration greater than 10,000 mg/L. This TDS data supports the hypothesis that TDS concentrations below 10,000 mg/L at HAFB are caused by dilution of natural groundwater from leaking water lines and surface irrigation from the domestic water supply. TDS concentrations greater than 10,000 mg/L exceed the NMWQCC limit as potable water (NMAC 20.6.2.3103) and thus, the groundwater beneath HAFB has been designated as unfit for human consumption. Likewise, USEPA guidelines (USEPA, 1986) have identified the groundwater as a Class IIIB water source, characterized by TDS concentrations exceeding 10,000 mg/L (therefore, the naturally occurring groundwater at HAFB is not regulated). Figure 3-6 shows the general groundwater flow direction at the Base. Groundwater quality in the Tularosa Basin is of potable quality at the recharge areas in close proximity to the Sacramento Mountains and becomes increasingly mineralized (high TDS) toward the central portion of the basin and discharge areas.

The preponderance of the groundwater occurs as an unconfined aquifer in the unconsolidated deposits of the central basin, with the primary source of recharge as rainfall percolation and minor amounts of stream run-off along the western edge of the Sacramento Mountains. Surface water/rainfall migrates downward into the alluvial sediments at the edge of the shallow aquifer near the ranges, and flows downgradient through progressively finer-grained sediments towards the central basin. Because the Tularosa Basin is a closed system, water that enters the area only leaves either through evaporation or percolation. This elevated amount of percolation results in a fairly high water table. Beneath HAFB, the water table ranges from 5 to 50 ft below ground

surface (bgs). Flow for the Base is generally towards the southwest with localized influences from arroyos (e.g., Dillard Draw) and the variations in the topography of the Base. The ground surface slopes at a slightly higher rate than the water table such that the depth to groundwater in the northern areas of the Base is comparably greater (25 to 40 ft bgs) than in the southern areas of the Base (less than 10 ft bgs). Near the arroyos, groundwater flows directly toward the surface drainage feature.

In addition, there are no potable water wells on HAFB. Potable water for the Base (Boles, Douglas and San Andres well fields) and the city of Alamogordo is derived from the foot of the nearby Sacramento Mountains, just south of Alamogordo. According to the groundwater well inventory (Table 3-1) prepared by the New Mexico Office of the State Engineer, there are approximately 25 domestic, 15 commercial, 7 irrigation, and 3 livestock wells located within a 4-mile radius of HAFB (New Mexico Water Rights Reporting System [NMWRRS] database, 2009). As shown on Figure 3-7 these wells are located along HAFB's northern and eastern boundaries (upgradient and cross gradient respectively).

3.6 Site Specific Geology and Hydrogeology

3.6.1 SD-08 Site Geology

The description of the SD-08 site geology is based upon historical and recent soil borings completed at SD-08 between in August 1991 (Remedial Investigation, Radian), November 1994 (Phase II RFI, Foster Wheeler/Radian), October 2006 (Additional Investigation, Bhate) and March 2013 (Groundwater LTM Quarter 6, NationView). Drilling logs from these investigations indicate that the stratigraphy at SD-08 consists primarily of silty and clayey sands. A layer of poorly-graded sand interbedded with thin layers of caliche and clayey sands was encountered in the boring closest to the washrack. Drilling logs from the RI (Radian, 1992a) also indicated the presence of a sand layer within the silty sand unit. This sand unit was not encountered for the two wells further downgradient of the washrack. No confining layers were found beneath the sand in any of the site borings. The stratigraphy is typical of the alluvial, eolian, and lacustrine deposits of the Tularosa Basin. The soil boring logs for these four investigations are included in Appendices B-1, B-2, B-3 and B-4 of this RFI report.

3.6.2 SD-08 Site Hydrogeology

To determine the groundwater flow direction, and horizontal hydraulic gradient, groundwater elevations were measured on November 4, 2013 at 17 monitoring wells (MW-08-01 through MW-08-08, MW-09-01, and SD08-MW10 through SD08-MW13, S10-MW01, S10-MW02, S10-MW06 and SWMU183-MW03) prior to the 8th quarterly LTM groundwater sampling event. SD-08 static water elevations ranged from 4,076.18 ft amsl at MW-09-01 to 4,073.02 ft amsl at SD08-MW13 (Table 4-1, Appendix A-7-9). The construction details for the SD-08 monitoring well network are presented in Table 3-2.

The most recent potentiometric surface map of SD-08 was developed using the data collected on November 4, 2013 (Figure 4-2, Appendix A-7-9). The SD-08 groundwater flow direction is to the east-southeast toward Dillard Draw. The horizontal hydraulic gradient was calculated along the groundwater flow lines within the SD-08 monitoring well network. The horizontal gradient for SD-08 is approximately 0.003 and was calculated using water levels obtained from monitoring wells MW-09-01 (upgradient) and SD08-MW13 (downgradient). Based on in-situ permeability (slug) tests performed on three wells (MW-08-01, -02, and -03) during the 1991 RI, the site average hydraulic conductivity was calculated to be 3.48 x 10^{-3} feet/minute. Based on data from these tests the groundwater velocity at SD-08 was calculated to be 19 feet/year (Radian, 1992a). The SD-08 well construction diagrams are also included in Appendix B-1, B-2 B-3 and B-4 of this RFI Report. In addition, the groundwater elevation summary tables and the potentiometric surface maps generated from the Additional Investigation (Bhate 2006-07) and the first seven quarterly sampling events (NationView, January 2012 through July 2013) are provided in Appendix A-7-1 through A-7-8. In general the groundwater flow direction was also toward Dillard Draw (east-southeast) during each of these sampling events.

3.7 Climate

As a whole, New Mexico has a mild, arid to semi-arid continental climate characterized by light precipitation totals, abundant sunshine, relatively low humidity, and relatively large annual and diurnal temperature range (Western Regional Climate Center [WRCC], 2003). The climate of the Central Closed Basins varies with elevation. The Base is found in the low areas and is characterized by warm temperatures and dry air. Daytime temperatures often exceed 100 degrees Fahrenheit (°F) in the summer months and are in the middle 50s in the winter. A preponderance of clear skies and relatively low humidity permits rapid night time cooling resulting in average diurnal temperature ranges of 25 to 35°F. Potential evapotranspiration, at 67 inches per year, significantly exceeds annual precipitation. The annual rainfall for Alamogordo is 12 inches per year[1]. Much of the precipitation falls during the mid-summer monsoonal period (July and August) as brief, yet frequent, intense thunderstorms culminating to 30 to 40% of the annual total rainfall. The very low rainfall amounts result in the arid conditions. Topographically induced wind patterns combining with the sparse vegetation tend to cause localized “dust devils”.

3.8 Current and Future Land Use

The land surrounding HAFB consists of residential areas to the east and northeast (City of Alamogordo), rangeland to the south, the White Sands National Monument to the west, and areas where military activities are conducted to the north. The desert terrain

[1] http://countrystudies.us/united-states/weather/new-mexico/

of the area immediately surrounding HAFB has limited development, and there are no agricultural operations, residential communities, or large industrial operations located adjacent to the Base. HAFB is an active military installation and is expected to remain active for the foreseeable future. No transfer of military property to the public is anticipated, and public access to the Base is restricted (Foster Wheeler, 2002). The central portion of HAFB is classified as industrial, containing aircraft hangars and numerous maintenance buildings.

Residential development on the Base is limited by environmental and operational constraints imposed by the 100-year floodplain, historic sites, and areas identified under the Installation Restoration Program. Safety and noise zones also limit residential development on HAFB. Future plans for residential development on the Base include renovation of existing structures, replacement of inefficient buildings, and expansion into open areas in the southeast corner of the Base (HAFB, 2000). Future land use is not expected to differ significantly from current land use practices (Foster Wheeler, 2002).

3.9 Current and Future Water Use

At present, the primary fresh water resource for the City of Alamogordo and HAFB is Lake Bonita, 60 miles northeast of the Tularosa Basin. Currently, there are no potable supplies of groundwater or surface water located on the Base. HAFB obtains its water supply from the City of Alamogordo and the HAFB wells in the Boles, San Andres, and Douglas well fields at the base of the Sacramento Mountains. No water supply wells are located on or near the Base because of poor groundwater quality (TDS greater than 10,000 mg/L).

4 SOURCE CHARACTERIZATION

Based on the previous investigations, soil and groundwater analytical data have been collected at the Building 131 Washrack (Site SD-08) since 1991. Source characterization for Site SD-08 has been thoroughly described in the following reports:

- *Remedial Investigation (RI) Report, Investigation, Study and Recommendation for 29 Waste Sites, Holloman Air Force Base, New Mexico, Volume I,* Radian, June 1992.
- *Draft Final Feasibility Study, Investigation, Study and Recommendation for 29 Waste Sites, Holloman Air Force Base, New Mexico,* Radian, December 1993.
- *Draft Final Phase II RCRA Facility Investigation Report, Table 1 Solid Waste Management Units*, *Holloman Air Force Base, New Mexico,* Foster Wheeler/Radian, June 1995.
- *Draft Final Site Investigation Report Waste Sites SS-06, SD-15, AOC-RR and AOC-BBMS Holloman Air Force Base, NM Volume I* (Ebasco/Groundwater Technology, October 1995). Note: Site AOC-RR is located 100 feet upgradient of site SD-08.
- *Final RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico,* Bhate Environmental Associates, July 2007.
- *Final SD-08 Long Term Monitoring Report Quarter 1, Winter 2012, Holloman Air Force Base, New Mexico*, NationView, March 2012.
- *Final SD-08 Long Term Monitoring Report Quarter 2, Spring 2012, Holloman Air Force Base, New Mexico,* NationView, June 2012.
- *Final SD-08 Long Term Monitoring Report Quarter 3, Summer 2012, Holloman Air Force Base, New Mexico,* NationView, September 2012.
- *Final SD-08 Long Term Monitoring Report Quarter 4, Fall 2012, Holloman AFB, New Mexico,* NationView, December 2012.
- *Final SD-08 Long Term Monitoring Report Quarter 5, Winter 2013, Holloman AFB, New Mexico,* NationView, March 2013.
- *Final SD-08 Long Term Monitoring Report Quarter 6, Spring 2013, Holloman AFB, New Mexico,* NationView, May 2013.

- *Revised Final SD-08 (Solid Waste Management Unit – 82) Long Term Monitoring Report Quarter 7, Summer 2013, Holloman AFB, New Mexico*, NationView, January 2014.

- *Final SD-08 (Solid Waste Management Unit – 82) Long Term Groundwater Monitoring Report Quarter 8, Fall 2013, Holloman AFB, New Mexico*, NationView, February 2014.

The purpose of the additional investigation (2006-07) and eight quarters of long term groundwater monitoring (2012-13) was to collect additional soil and groundwater data to characterize the current site conditions for completing a comprehensive site-specific risk assessment. Data from these investigations (including data from earlier investigations) will determine whether the residual soil and groundwater concentrations of organochlorine pesticides, VOCs (attributed to the upgradient Site AOC-RR), SVOCs, RCRA metals, and TDS result in an unacceptable risk. A summary of the soil and groundwater data used for the risk evaluation is presented in Section 8.1.

5 FIELD ACTIVITIES

This section summarizes the field activities conducted during the Additional Investigation (2006-07) and the eight quarters of LTM groundwater sampling (2012-13) conducted at SD-08.

5.1 SD-08 Additional Investigation (2006-07)

The objective of the additional investigation conducted at SD-08 was to collect soil and groundwater data to fill data gaps identified by NMED (Attachments A-4 through A-6 provide the NMED correspondence dated February 9, 2005, July 27, 2005, and the SD-08 Work Plan Notice of Approval letter dated December 29, 2005). To meet the investigation objectives the following activities were performed:

- Advanced three soil borings to characterize soil conditions under the drainage pits and downgradient of the drainage pits (SB-08-21, SB-08-22 and SB-08-23);
- Installed one monitoring well downgradient of the drainage pits (MW-08-07) and one upgradient monitoring well (MW-08-08);
- Collected groundwater samples from the two new (MW-08-07 and MW-08-08) and three existing (MW-08-01, MW-08-05, and S10-MW01) monitoring wells;
- Soil and groundwater samples were analyzed for the following parameters:
    - VOCs using USEPA Method 8260B (soil and groundwater);
    - SVOCs using USEPA Method 8270C (soil and groundwater);
    - RCRA Metals using USEPA Methods 6010B and 7471A/7470A (soil and groundwater);
    - Organochlorine Pesticides using USEPA Method 8081A (soil and groundwater; and
    - TDS using USEPA Method 160.1 (groundwater only).
- Two geotechnical samples were collected from the upgradient monitoring well borehole (SB-08-24) for the SD-08 risk based evaluation. The geotechnical samples were analyzed for the following parameters:
    - Moisture Content using American Society for Testing and Materials (ASTM) Method 2216;
    - Dry Bulk Density using ASTM Method D2937;
    - Specific Gravity using ASTM Method D854; and
    - Fractional Organic Carbon Content using ASTM Method D2974.

Prior to sampling activities, an Air Force Form, AF FM 332, and dig permit were submitted to the proper offices. All sampling activities were completed following the

Additional Investigation Requirements Work Plan ERP Site SD-08, Holloman Air Force Base, New Mexico (Bhate, 2005) and standard industry practices.

5.1.1 Subsurface Soil Sampling

In October 2006, four shallow soil borings (SB-08-21 through SB-08-24) were advanced at site SD-08 (Figure 5-1) in accordance with HAFB Standard Operating Procedures (SOPs) provided in the *Basewide Quality Assurance Project Plan* (Bhate, 2003). The soil borings were advanced using a Central Mining Equipment (CME) 75 hollow stem auger drill rig, a five foot stainless steel core barrel, and associated tooling. These soil borings were advanced to depths ranging between 7.5 and 16.5 feet bgs. Two soil samples for chemical analysis were collected from each drainage pit borehole (SB-08-21 and SB-08-22) and the downgradient monitoring well borehole (SB-08-23) at various intervals between 2 to 8 feet bgs. As there were no OVA readings above background, one sample was collected at a location just above the capillary fringe and the second sample was collected from various mid borehole depths. In addition, two soil samples were collected for geotechnical analysis from the upgradient monitoring well borehole (SB-08-24).

Soils were visually classified in the field by a geologist according to the Unified Soil Classification System. Soils were screened with a Foxboro Toxic Vapor Analyzer (TVA) 1000 Organic Vapor Analyzer (OVA), with soil-headspace screening techniques to aid in selecting samples for laboratory analysis. Two soil samples were collected from three borings for laboratory chemical analysis. Soil samples were placed in the appropriate containers, packed on ice at 4 degrees Celsius (ºC), and delivered under chain-of-custody to Accutest Laboratories in Orlando, Florida. The soil boring logs and monitoring well construction diagrams for this investigation are included in Appendix B-3 of this RFI Report.

Two geotechnical samples were collected from soil boring SB-08-24 which was drilled upgradient of the former Building 131 washrack (Figure 5-1) to provide geotechnical data from non-impacted soils and the installation of an upgradient well. Two undisturbed soil samples were collected from boring SB-08-24 above the water table where the lithology is representative of the site, and analyzed for soil geotechnical properties (dry bulk density, specific gravity, moisture content, and fractional organic carbon content). Geotechnical samples were collected in Shelby tubes and shipped to Accutest Laboratories in Orlando, Florida for analysis.

5.1.2 Groundwater Sampling

In November and December 2006, groundwater samples were collected from the two new wells (MW-08-07 and MW-08-08) along with three existing wells (MW-08-01, MW-08-05, and S10-MW01) illustrated on Figure 5-1. Prior to sampling, groundwater levels were collected for each monitoring well and then it was purged. Monitoring well purging

and sampling was completed with low flow techniques utilizing a peristaltic pump and disposable polyethylene tubing placed at mid-screen. Each of the wells was pumped at an average rate of less than 1 liter per minute. Appendix C-1 includes the Monitoring Well Sample Collection Forms.

Groundwater samples were placed in the appropriate containers, packed on ice at 4 ºC, and delivered under chain-of-custody to Accutest Laboratories located in Orlando, Florida. In addition, the five monitoring wells (MW-08-01, MW-08-05, MW-08-07, MW-08-08, and S10-MW01) were resampled for TDS in late December 2006 and January 2007. All groundwater samples were analyzed by Accutest Laboratories in Orlando, Florida.

5.2 SD-08 Long Term Groundwater Monitoring (2012-13)

On November 22, 2011, the NMED approved HAFB's request to perform two years of quarterly groundwater monitoring at Site SD-08. The objectives of the LTM were to conduct a quarterly monitoring program for two years to determine if natural attenuation is degrading the primary contaminants of concern (COCs) (1,2-DCA and 1,2-DCP) previously identified in monitoring wells MW-08-01, and MW-08-07 during the Additional Investigation groundwater sampling event conducted in 2006-07. The recent SD-08 LTM groundwater sampling events were conducted by NationView in January 2012, April 2012, July 2012, October 2012, January 2013, April 2013, July 2013, and November 2013. All sampling activities were completed following the *Additional Investigation Requirements Work Plan ERP Site SD-08, Holloman Air Force Base, New Mexico* (Bhate, 2005) and recommendations provided by the NMED. The current SD-08 monitoring well network is presented on Figure 5-2.

Monitoring well purging and sampling was completed with low flow techniques utilizing a peristaltic pump, disposable polyethylene tubing placed at mid-screen, and a groundwater multi-parameter meter equipped with a flow-thru cell. Field parameters were recorded for every well volume of groundwater removed. Field parameters were considered stable when the pH measurements remained constant within 0.1 units; specific conductivity, dissolved oxygen and temperature varied by no more than 10 percent, and turbidity by no more than 5 nephelometric units. Upon reaching stable purging parameters, VOC samples were collected using disposable Teflon bailers followed by collecting the remaining samples using a peristaltic pump at low flow rates. Samples collected for dissolved TAL metals were also field filtered with a 0.45 micron filter. Appendix C-2 through C-9 includes the Monitoring Well Sample Collection Forms for each of the eight 2012-13 quarterly sampling events. Groundwater samples were placed in the appropriate containers, packed on ice at 4 ºC, and delivered under assigned chain-of-custody numbers to Gulf Coast Analytical Laboratories located in Baton Rouge, Louisiana.

A detailed description of the field activities conducted during each quarterly LTM sampling event were presented in the eight SD-08 Long Term Monitoring Reports for

Quarters 1 through 8 (NationView, 2012a, 2012b, 2012c, 2012d, 2013a, 2013b, 2014a and 2014b). The following narrative provides a brief summary of sampling and analysis activities conducted by NationView during each quarterly sampling event.

5.2.1 SD-08 LTM Quarter 1, Winter 2012

The first quarterly groundwater sampling event was conducted in January 2012. Prior to sampling groundwater elevations were measured at 12 monitoring wells (including two wells from LF-10 and one from ERP Site 9 and one from SWMU 183 [adjacent sites]) for developing a potentiometric surface map. Groundwater samples were collected from eight monitoring wells (MW-08-01 through MW-08-08) and analyzed for the following parameters:

- VOCs by USEPA Method 8260B
- TAL metals (total and dissolved) by USEPA 6010B/7470A
- TDS by USEPA SM19 2540C
- Nitrate-nitrite, chloride, fluoride, and sulfate by USEPA Method 300/9056

5.2.2 SD-08 LTM Quarter 2, Spring 2012

The second quarterly groundwater sampling event was conducted in April 2012. Prior to sampling groundwater elevations were measured at 12 monitoring wells (including two wells from LF-10 and one from ERP Site 9 and one from SWMU 183 [adjacent sites]) for developing a potentiometric surface map. Based on the results of first quarter (Winter 2012) groundwater sampling event, monitoring wells SWMU183-MW03 and S10-MW01 were sampled as part of the SD-08 monitoring well network to assist with delineating the extent of the 1,2-DCA plume. Groundwater samples were collected from 10 monitoring wells (MW-08-01 through MW-08-08, SWMU183-MW03 and S10-MW01) and analyzed for the following parameters:

- VOCs by USEPA Method 8260B
- TAL metals (total and dissolved) by USEPA 6010B/7470A
- TDS by USEPA SM19 2540C
- Nitrate-nitrite, chloride, fluoride, and sulfate by USEPA Method 300/9056

5.2.3 SD-08 LTM Quarter 3, Summer 2012

The third quarterly groundwater sampling event was conducted in July 2012. Prior to sampling groundwater elevations were measured at 13 monitoring wells (including three wells from LF-10 and one from ERP Site 9 and one from SWMU 183 [adjacent sites]) for developing a potentiometric surface map. Based on the results of the second quarterly sampling event (April 2012) monitoring well S10-MW06 was sampled as part of the SD-08 monitoring well network to assist with delineating the downgradient extent of the 1,2-DCA plume. Groundwater samples were collected from 11 monitoring wells

(MW-08-01 through MW-08-08, SWMU183-MW03, S10-MW01 and S10-MW06) and analyzed for the following parameters:

- VOCs by USEPA Method 8260B
- TAL metals (total and dissolved) by USEPA 6010B/7470A
- TDS by USEPA SM19 2540C
- Nitrate-nitrite, chloride, fluoride, and sulfate by USEPA Method 300/9056

Note: Due to access issues (scattered shards of broken glass are present throughout Site LF-10) only VOCs were sampled from monitoring well S10-MW06.

5.2.4 SD-08 LTM Quarter 4, Fall 2012

The forth quarterly groundwater sampling event was conducted in October 2012. Prior to sampling groundwater elevations were measured at 13 monitoring wells for developing a potentiometric surface map. With the exception of mercury, total TAL metals were not analyzed for during the fourth quarter in accordance with NMED correspondence dated September 20, 2012 (Attachment A-8). Groundwater samples were collected from 11 monitoring wells (MW-08-01 through MW-08-08, SWMU183-MW03, S10-MW01 and S10-MW06) and analyzed for the following parameters:

- VOCs by USEPA Method 8260B
- TAL metals (dissolved) by USEPA 6010B/7470A
- Mercury (total) by USEPA 7470A
- TDS by USEPA SM19 2540C
- Nitrate-nitrite, chloride, fluoride, and sulfate by USEPA Method 300/9056

5.2.5 SD-08 LTM Quarter 5, Winter 2013

The fifth quarterly groundwater sampling event was conducted in January 2013. Prior to sampling groundwater elevations were measured at 13 monitoring wells for developing a potentiometric surface map. Groundwater samples were collected from 11 monitoring wells (MW-08-01 through MW-08-08, SWMU183-MW03, S10-MW01 and S10-MW06) and analyzed for the following parameters:

- VOCs by USEPA Method 8260B
- TAL metals (dissolved) by USEPA 6010B/7470A
- Mercury (total) by USEPA 7470A
- TDS by USEPA SM19 2540C
- Nitrate-nitrite, chloride, fluoride, and sulfate by USEPA Method 300/9056

5.2.6 SD-08 LTM Quarter 6, Spring 2013

The sixth quarterly groundwater sampling event was conducted in April 2013. Prior to sampling groundwater elevations were measured at 13 monitoring wells for developing a potentiometric surface map. Based on correspondence from the NMED dated

October 5, 2012 (Attachment A-9) the analysis of nitrite, chloride, fluoride and sulfate were discontinued and monitoring well S10-MW02 was sampled as part of the SD-08 network. Therefore, groundwater samples were collected from 12 monitoring wells (MW-08-01 through MW-08-08, SWMU183-MW03, S10-MW01, S10-MW02 and S10-MW06) and analyzed for the following parameters:

- VOCs by USEPA Method 8260B
- TAL metals (dissolved) by USEPA 6010B/7470A
- Mercury (total) by USEPA 7470A
- TDS by USEPA SM19 2540C
- Nitrate by USEPA Method 300/9056

In addition, the NMED correspondence dated October 5, 2012 (Attachment A-9) requested the installation of four new monitoring wells (SD08-MW10 through SD08-MW13) to further delineate the up and downgradient extent of 1,2-DCA groundwater contamination which appears to be migrating in an easterly direction from the upgradient adjoining site AOC-RR. The NMED also requested the collection of soil samples (between 2 to 8 feet bgs) from the two boreholes for monitoring wells SD08-MW10 and SD08-MW11located at site AOC-RR. The four new monitoring wells were installed in March 2013 and the locations are shown on Figure 5-2. The soil samples collected from the two upgradient soil borings were analyzed for VOCs (USEPA Method 8260B) and TAL metals (6010C/7471A). In addition, the four new wells were developed for sampling during the seventh quarter. The soil boring logs and monitoring well construction diagrams for the four new wells are included in Appendix B-4.

5.2.7 SD-08 LTM Quarter 7, Summer 2013

The seventh quarterly groundwater sampling event was conducted in July 2013. Prior to sampling groundwater elevations were measured at 17 monitoring wells for developing a potentiometric surface map. Groundwater samples were collected from 16 monitoring wells (MW-08-01 through MW-08-08, SD08-MW10 through SD08-MW13 [new up and downgradient wells installed March 2013], SWMU183-MW03, S10-MW01, S10-MW02 and S10-MW06) and analyzed for the following parameters:

- VOCs by USEPA Method 8260B
- TAL metals (dissolved) by USEPA 6010B/7470A
- Mercury (total) by USEPA 7470A
- TDS by USEPA SM19 2540C
- Nitrate by USEPA Method 300/9056

5.2.8 SD-08 LTM Quarter 8, Fall 2013

The eighth (and final) quarterly groundwater sampling event was conducted in November 2013. Prior to sampling groundwater elevations were measured at 17 monitoring wells for developing a potentiometric surface map. Groundwater samples were collected from 16 monitoring wells (MW-08-01 through MW-08-08, SD08-MW10

through SD08-MW13, SWMU183-MW03, S10-MW01, S10-MW02 and S10-MW06) and analyzed for the following parameters:

- VOCs by USEPA Method 8260B
- TAL metals (dissolved) by USEPA 6010B/7470A
- Mercury (total) by USEPA 7470A
- TDS by USEPA SM19 2540C
- Nitrate by USEPA Method 300/9056

5.3 Surveying

Monitoring wells used for the potentiometric surface map were surveyed by a qualified surveyor using a survey grade Trimble® Geometrics Pro XR GPS in accordance with methods described in the *Basewide Quality Assurance Project Plan* (QAPP) (Bhate, 2003). The horizontal locations (northing and easting coordinates) are relative to the World Geodetic System (WGS) 1984 Universal Transverse Mercator (UTM) Coordinate System, Zone 13 North (meters) and surveyed to an accuracy of +/- 0.33 meters Vertical elevations were referenced to the North American Vertical Datum (NAVD) 1988 and surveyed to an accuracy of +/-0.001 ft. The top of casing for the monitoring wells (vertical control) was used to determine the depth and elevation of the groundwater. The northing and easting and top of casing survey data for the SD-08 Quarter 8 sampling event are included in Table 3-2.

5.4 Equipment Decontamination

All reusable equipment associated with soil sampling was decontaminated in accordance with the HAFB SOPs provided in the *Basewide QAPP* (Bhate, 2003).

5.5 Waste Handling

All investigation derived waste (IDW) produced during the investigation process was handled in accordance with the HAFB SOPs provided in the *Basewide QAPP* (Bhate, 2003).

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6 LABORATORY ANALYSIS AND DATA VALIDATION SUMMARY

This section presents the data validation summary for the SD-08 Additional Investigation conducted by Bhate (November 2006 through January 2007) and the eight quarterly groundwater sampling events conducted by NationView (January 2012 through October 2013).

6.1 SD-08 Additional Investigation (2006-07)

The analysis of soil and groundwater samples collected during this investigation followed the proposed methodologies presented in the *Additional Investigation Requirements Work Plan ERP Site SD-08* (Bhate, 2005). All analytical procedures followed the EPA SW-846 protocol with the groundwater and soil samples being analyzed as follows:

- VOCs by EPA Method 8260B
- SVOCs by EPA Method 8270C
- RCRA Metals by EPA Method 6010B/7470A/7471A (or 200.7/245.1)
- Pesticides by EPA Method 8081A

The groundwater was also analyzed for:

- TDS by EPA Method 160.1

All of the laboratory data generated as part of this project was validated by the project chemist. Field Quality Assurance (QA)/Quality Control (QC) samples, including blind QA samples, equipment rinsates, trip blanks, matrix spikes, matrix spike duplicates, and QC splits, were collected to document field and laboratory QA/QC. The laboratory analytical data is provided in Appendix D-1. The Data Validation Reports are provided in Appendix E-1. Accutest Laboratories in Orlando, Florida performed the analysis of all samples collected from late October 2006 through January 2007.

Overall, only minor QC issues were identified during the data validation of the laboratory results and the laboratory took all necessary corrective actions. All of the data were determined to be usable with only minor qualifications. Information regarding the precision, accuracy, representativeness, and completeness is provided in the validation reports (Appendix E-1) with the following sections providing a synopsis of each analyte group.

6.1.1 Volatile Organic Compounds

The confirmation column for groundwater sample SD-08-MW08-01 was run outside of the established holding time. The positive volatile results for 1,2-dichloroethane which was reported from the second analysis in this sample was qualified as estimated “J”. Allyl chloride in groundwater sample SD08-MW08-07 had a percent recovery (%R) less

than the lower acceptance limit and was qualified non-detected estimate “UJ” in the sample. The VOC analyses for groundwater samples SD08-MW08-01, SD08-MW08-05, S10-MW01, SD08-MW08-08, and SD08-MW08-08D yielded a matrix spike/matrix spike duplicate (MS/MSD) recovery for 2-chloroethyl vinyl ether less than the associated QC limits. This may indicate a matrix effect and a low bias to the data. All results for this compound were considered estimated non-detects “UJ”. The MS/MSD recovery for 1,2,4-trimethylbenzene resulted in a value less than the associated QC limits in soil samples SD08-SB22-2 and SD08-SB22-7. A matrix effect and a low bias to the data may be present. All results for this compound were considered estimated non-detects “UJ”. For groundwater sample SD08-MW08-05 the MS/MSD recovery for methyl ethyl ketone exceeded the associated QC limit. This may indicate a matrix effect and high bias to the data. The result, which was between the MDL and the reporting limit (RL), was qualified estimated "J" by the laboratory and was also qualified as estimated "J" by the validating chemist.

6.1.2 Semi-volatile Organic Compounds

During the second SVOC analyses of the groundwater samples SD08-MW08-01, SD-08-MW08-05, and S10-MW01, the established holding times for extraction were exceeded by eight days. All results for these samples were considered estimated non-detects, “UJ”. A matrix effect and a low bias to the data may be involved for MS/MSD recoveries less than the associated QC limits in soil samples SD08-SB21-2, SD08-SB21-2a, SD08-SB21-6, SD08-SB23-4, and SD08-SB23-07 and groundwater samples SD08-MW08-08 and SD08-MW08-08D for benzidine and in soil samples SD08-SB22-2 and SD08-SB22-7 for 2-chloronaphthalene, 4-bromophenyl phenyl ether, and pentachlorophenol. All results for these compounds were considered estimated non-detects, “UJ”.

6.1.3 Organochlorine Pesticides

The pesticide analyses for groundwater samples SD08-MW08-01, SD08-MW08-05, S10-MW01, SD08-MW08-08, and SD08-MW08-08D yielded MS/MSD recoveries for 4,4-DDE, 4,4-DDT, and methoxychlor less than the associated QC limits. This may indicate a matrix effect and a low bias to the data. All results for these compounds were considered estimated non-detects “UJ”.

6.1.4 RCRA Metals

During the analyses of soil samples SD-08-SB22-2 and SD-08-SB22-7, for RCRA metals, the data for barium was flagged due to MS/MSD variances. The QA validation indicated the MS/MSD recoveries exceeded the associated QC limits which may indicate a high bias to the data and possible matrix effect. The positive results reported for barium were considered estimated “J”. Also, lead was present in the equipment blank and the subsequent positive results associated with the field samples less than five times the blank concentration were flagged non-detects “U”.

Groundwater samples SD08-MW08-01, SD08-MW08-05, and S10-MW01 resulted in mercury exceeding the QC limits for the MS/MSD relative percent difference. This may indicate a matrix effect and the positive results for this compound in the associated field samples were considered estimated "J".

6.1.5 Total Dissolved Solids

There were no QA deficiencies reported for the TDS in any of the samples analyzed except for sample SD08-MW08-07 which was analyzed outside the requisite holding time by seven days and the result was qualified as estimated "J".

6.2 SD-08 Long Term Groundwater Monitoring (2012-13)

The analysis of groundwater (Quarters 1 through 8) and soil (Quarter 6 only) samples collected during the recent SD-08 Groundwater LTM quarterly sampling events conducted in 2012 and 2013 followed the proposed methodologies presented in the *Additional Investigation Requirements Work Plan ERP Site SD-08* (Bhate, 2005). All of the laboratory data generated during these quarterly sampling events was validated by the project chemist. Field Quality Assurance (QA)/Quality Control (QC) samples, including trip blanks, matrix spikes, and matrix spike duplicates were collected to document field and laboratory QA/QC. The laboratory analytical data for each quarterly sampling event is provided in Appendix D-2 through D-9 of this report. Gulf Coast Analytical Laboratories (GCAL) in Baton Rouge, Louisiana performed the analysis of all samples collected.

Overall, only minor QC issues were identified during the data validation of the laboratory results and the laboratory took all necessary corrective actions. All of the data were determined to be usable with only minor qualifications. Information regarding the precision, accuracy, representativeness, and completeness is provided in the Data Validation Reports for each quarterly sampling event (Appendix E-2 through E-9) of this report.

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7 NATURE AND EXTENT OF CONTAMINATION

This section summarizes the analytical results obtained during the Additional Investigation (2006-07) and the eight quarters of groundwater sampling (2012-13) conducted at SD-08.

7.1 SD-08 Additional Investigation (2006-07)

This section presents the soil, geotechnical, and groundwater analytical results from the Additional Investigation field activities completed at Site SD-08 by Bhate from October to December 2006, including the TDS groundwater sampling events conducted in December 2006 and January 2007. This section also presents the nature and extent of contamination found in the soil and groundwater during this investigation. The soil and groundwater sampling locations from this investigation are shown on Figure 5-1.

The objectives of the Additional Investigation at Site SD-08 were to collect soil and groundwater data to fulfill the data gaps identified by the NMED. Specifically, the purpose of the investigation was to: 1) determine if any soil, and/or groundwater contamination exist at the site, 2) delineate the current horizontal and vertical extent of the contamination, and 3) collect sufficient analytical data to complete a site-specific risk assessment to support closure of the site. The ultimate objective is to obtain NFA status under criterion #5 (Appendix 4-B [NMED, 2004]) and obtain a Class III permit modification to remove SD-08 (SWMU-82) from Table A of the HAFB Hazardous Waste Facility Permit No. NM6572124422.

Soil (geochemical and geotechnical) and groundwater analytical results collected during this investigation are summarized in Tables 7-1, 7-2, 7-3, and 7-4, respectively. Duplicate samples were collected in borings SB21 at 2 feet bgs and in MW-08 for groundwater.

7.1.1 Soil Analytical Results

The seven soil samples collected from soil borings SB-08-21 through SB-08-23 (Figure 5-1) were analyzed for VOCs, SVOCs, organochlorine pesticides, and RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver). The soil analytical results are summarized in Table 7-1.

VOCs were not detected in any samples above the MDL. The pesticide 4,4-DDE was detected in one sample (SD-08-SB22-2) at an estimated concentration of 1.1 J µg/kg and the SVOC diethyl phthalate was detected in three samples with concentrations ranging from 129 J to 930 µg/kg. The detections of 4,4-DDE and diethyl phthalate were each below their respective NMED soil screening levels (14.3 mg/kg and 48,900 mg/kg) (NMED, 2012b). All other pesticides and SVOCs were not detected above the method detection limits. Six RCRA metals were detected above the MDL. The maximum concentrations of arsenic (3.1 milligrams per kilogram [mg/kg]), barium (114 J mg/kg),

chromium (14.3 mg/kg), cadmium (0.13 J mg/kg), lead (2.9 J mg/kg) and mercury (0.021 J mg/kg) were all below their respective NMED SSLs (NMED, 2012b).

7.1.2 Soil Geotechnical Analytical Results

The two geotechnical samples collected from SB-08-SB24 were analyzed for bulk density, fractional organic carbon, moisture content, and specific gravity. The geotechnical analytical results are presented in Table 7-2. The geotechnical borehole location is also shown on Figure 5-1. Because these samples were collected in the unsaturated silty sand zone above the water table, the results for each geotechnical parameter were averaged for their use in the site-specific estimation of risk.

7.1.3 Groundwater Analytical Results

The five groundwater samples collected from MW-08-01, MW-08-05, MW-08-07, MW-08-08 and S10-MW01 were analyzed for VOCs, SVOCs, organochlorine pesticides, RCRA metals, and TDS. The analytical results are presented in Tables 7-3 and 7-4 and the monitoring well locations are shown on Figure 5-1.

Eight VOCs (acetone, benzene, chloroform, tert-butylbenzene, 1,2-dichloroethane, 1,2-dichloropropane, o-dichlorobenzene, methyl ethyl ketone, and 1,1,2-trichloroethane) were detected above the method detection limit in the five monitoring wells. The highest concentrations of VOCs were detected in MW-08-01 which is the closest downgradient well to Site AOC-RR. MW-08-01 contained the maximum concentrations of benzene (0.57 J µg/L), tert-butylbenzene (0.57 J µg/L), 1,2-DCA (134 µg/L), 1,2-DCP (10.3 µg/L), o-dichlorobenzene (0.52 J µg/L) and 1,1,2-trichloroethane (3.9 µg/L). The most widely distributed VOC contaminant, 1,2-dichloroethane, was detected in three of the five samples with concentrations ranging from 3 µg/L (S10-MW01) to 134 µg/L (MW-08-01). Monitoring wells MW-08-01 and MW-08-07 had concentrations of 1,2-DCA above the USEPA MCL (5 µg/L). Additionally, the concentration of 1,2-DCP (10.3 µg/L) detected in MW-08-01 was above the USEPA MCL (5 µg/L). All other VOCs were detected at concentrations below the NMWQCC standards and the USEPA MCLs.

Two SVOCs (diethyl phthalate and bis(2-Ethylhexyl)phthalate) were detected in monitoring wells MW-08-07 and MW-08-05 with concentrations of 11.1 µg/L and 3.6 J µg/L, respectively. No other SVOCs were detected during this sampling event. Organochlorine pesticides alpha and gamma-chlordane were detected in monitoring well MW-08-07 with estimated concentrations of 0.016 J µg/L and 0.03 J µg/L, respectively. These concentrations are below the USEPA MCL for chlordane (2 µg/L). All other pesticides were not detected above the MDL in any of the other groundwater samples.

Seven RCRA metals were detected above the MDL. The maximum concentrations of barium (48.3 J µg/L), cadmium (1.6 J µg/L), chromium (3.8 J µg/L), lead (2.9 J µg/L), mercury (0.22 J µg/L), and silver (1.1 J µg/L) were all below their respective NMWQCC groundwater standards. However, arsenic was detected in monitoring well MW-08-

01(23.4 µg/L) above the USEPA MCL (10 µg/L). Although this detection exceeds the USEPA MCL it is below the calculated upper tolerance limit (UTL) (28.53 µg/L [NationViewIBhate JVIII, 2011]) and therefore, most likely represents the natural variability of groundwater geochemistry at HAFB. In addition, there were three detections of barium and one detection of chromium which exceeded their applicable NMED approved background levels (NMED, 2011b).

In addition, groundwater samples were collected from monitoring wells MW-08-01, MW-08-05, MW-08-07, MW-08-08, and S10-MW1 in December 2006 and January 2007 for TDS analysis. TDS concentrations ranged from 2,420 mg/L (MW-08-05) to 17,200 mg/L (MW-08-08) and exceeded the USEPA MCL (500 mg/L) and the NMWQCC standard (1,000 mg/L) at each well. TDS concentrations below 10,000 mg/L at Site SD-08 are most likely due to leaking water lines which traverse the eastern and northern boundaries of the site. TDS concentrations in monitoring wells MW-08-01 and MW-08-08 were greater than 10,000 mg/L. Groundwater with TDS concentrations greater than 10,000 mg/L is classified by the USEPA as a Class III B aquifer (USEPA, 1986), which is designated as unfit for human consumption. As a result of this classification the human ingestion of groundwater at SD-08 is not a valid exposure pathway.

Groundwater analytical results for this investigation are summarized in Table 7-3 and TDS is summarized in Table 7-4**.** Figure 7-1 presents the NMWQCC and USEPA MCL groundwater exceedances from this sampling event.

7.2 SD-08 Long Term Groundwater Monitoring (2012-13)

The following subsections summarize two years (eight rounds) of quarterly groundwater sampling conducted at SD-08 between January 2012 and November 2013. The analytical data tables and figures from these eight quarterly sampling events were previously submitted to the NMED in eight SD-08 Long Term Monitoring Reports for Quarters 1 through 8 (NationView, 2012a, 2012b, 2012c, 2012d, 2013a, 2013b, 2013c and 2014a). The NMED notice of approval letters for the eight Quarterly LTM Reports are provided in Attachments A-8 through A-15. Selected analytical data summary tables and figures from these reports are provided in Appendices A-7-2 through A-7-9. The following sections present a brief summary of the groundwater and soil (Quarter 6 only) results which exceeded applicable action levels (USEPA MCLs and/or NMWQCC standards) during each quarter of groundwater sampling (2012-13). A detailed summary of the analytical results is provided in the eight SD-08 LTM quarterly reports referenced above.

7.2.1 SD-08 LTM Quarter 1, Winter 2012

Monitoring wells MW-08-01 through MW-08-08 were sampled January 24 - 26, 2012. Groundwater samples were submitted to GCAL for VOC, TAL metals (total and dissolved), General Chemistry (nitrate-nitrite, chloride, sulfate, fluoride), and TDS analysis. A summary of the analytical results displaying detections only is provided as Table 3 (Appendix A-7-2). Groundwater constituents that exceeded USEPA MCLs

and/or NMWQCC standards are presented Figure 6 (Appendix A-7-2). Listed below is a summary of the groundwater analytical data from the first quarterly sampling event conducted in January 2012.

- Concentrations of two VOCs (1,2-DCA and 1,2-DCP) exceeded the USEPA MCL and/or the NMWQCC standard.
- 1,2-dichloroethane was detected in four groundwater samples (including one duplicate) above the USEPA MCL (5 µg/L) with concentrations ranging from 7.82 µg/L (MW-08-02) to 44.4 µg/L (MW-08-01).
- 1,2-dichchloropropane was detected above the USEPA MCL (5 µg/L) in monitoring well MW-08-01 at 6.49 µg/L.
- Concentrations of two dissolved metals (iron and manganese) exceeded the NMWQCC standards (action level for dissolved metals [NMAC 20.6.2.3103]).
- Dissolved manganese was detected in monitoring wells MW-08-01 (2,600 µg/L), MW-08-02 (1,030 µg/L), MW-08-07 (1,330 µg/L), and MW-08-08 (240 µg/L) above the NMWQCC standard (200 µg/L).
- Dissolved iron was detected above the NMWQCC standard (1,000 µg/L) in monitoring well MW-08-01 at 7,560 µg /L.
- Concentrations of four unfiltered (total) metals (aluminum, arsenic, iron and manganese) exceeded the USEPA MCLs (action level for total metals [USEPA, 2009]).
- Total aluminum concentrations were above the USEPA Secondary MCL (50 µg/L) in five monitoring wells with concentrations ranging from 100 J µg/L (MW-08-06) to 310 µg/L (MW-08-03). However, aluminum concentrations were all below the NMED approved background level of 1,043 µg/L (Table 2, NMED, 2011b).
- Total arsenic exceeded the USEPA MCL (10 µg/L) in groundwater samples collected from monitoring wells MW-08-02 (23 µg/L) and MW-08-07 (47 µg/L).
- Total Iron exceeded the USEPA Secondary MCL (300 µg/L) in MW-08-01 (8,630 µg/L), MW-08-02 (900 µg/L) and MW-08-05 (960 µg/L).
- Total Manganese exceeded the USEPA Secondary MCL (50 µg/L) in monitoring wells MW-08-01(2,560 µg/L), MW-08-02 (1,050 µg/L), MW-08-07 (1,730 µg/L), and MW-08-08 (190 µg/L).
- Chloride exceeded the USEPA Secondary MCL and NMWQCC standard (250 mg/L), but was below the NMED approved background level (35,040 mg/L)

(Table 2, NMED, 2011b) in monitoring wells MW-08-01 (627 mg/L), MW-08-03 (4,030 mg/L), MW-08-04 (477 mg/L), MW-08-06 (6,710 mg/L), MW-08-07 (436 mg/L), and MW-08-08 (13,500 mg/L).

- Fluoride concentrations exceeded the NMWQCC groundwater standard (1.6 mg/L) in all monitoring wells except for MW-08-08 with concentrations ranging from 2.26 mg/L (MW-08-04) to 5.78 mg/L (MW-08-01).

- Nitrate exceeded the NMWQCC groundwater standard and USEPA MCL (10 mg/L) in monitoring wells MW-08-03 (16.6 mg/L), MW-08-06 (19.4 mg/L), and MW-08-08 (37.8 J mg/L).

- Sulfate was detected in all monitoring wells above the USEPA Secondary MCL (250 mg/L) but was below the NMED approved background level (17,419 mg/L) (Table 2, NMED, 2011b) with detections ranging from 1,800 mg/L (MW-08-05) to 8,900 mg/L (MW-08-08).

- Total dissolved solids concentrations ranged from 2,580 mg/L (MW-08-05) to 33,600 mg/L (MW-08-08), which exceeds both the NMWQCC groundwater standard (1,000 mg/L) and Secondary USEPA MCL (500 mg/L).

7.2.2 SD-08 LTM Quarter 2, Spring 2012

Monitoring wells MW-08-01 through MW-08-08, SWMU183-MW03 and S10-MW01 were sampled April 24 - 25, 2012. Based on the results from the first quarterly groundwater sampling event (Winter 2012) monitoring wells SWMU183-MW03 and S10-MW01 were added to the SD-08 monitoring well network to assist with delineating the down and cross gradient extent of the 1,2-DCA plume. Groundwater samples were submitted to GCAL for VOC, TAL metals (total and dissolved), General Chemistry (nitrate-nitrite, chloride, sulfate, fluoride for monitoring wells S10-MW01 and SWMU183-MW03 only), and TDS analysis. Note: initially the NMED only requested one round of sampling for general chemistry parameters in an e-mail dated November 30, 2011 (NMED, 2011a). A summary of the analytical results displaying detections only is provided as Table 5-1 (Appendix A-7-3). Groundwater constituents that exceeded USEPA MCLs and/or NMWQCC standards are presented Figure 5-1 (Appendix A-7-3). Listed below is a summary of the groundwater analytical data from the second quarterly sampling event conducted in April 2012.

- 1,2-DCA and 1,2-DCP were the only VOCs that were detected above their respective USEPA MCLs and NMWQCC standards.

- 1,2-DCA was detected above the USEPA MCL (5 µg/L) in monitoring wells MW-08-01 (28.3 µg/L), MW-08-02 (11.2 µg/L), MW-08-07 (52.5 µg/L) and S10-MW01 (15.2 µg/L). Figure 5-2 (Appendix A-7-3) illustrates the isocontours of 1-2-DCA concentrations detected above the MCL.

- 1,2-DCP was detected with a concentration that exceeds the USEPA MCL (5 µg/L) in monitoring well MW-08-01 (5.62 µg/L).

- Dissolved iron and manganese were detected at concentrations above their respective NMWQCC groundwater standards.

- Dissolved iron was detected above the NMWQCC standard (1,000 µg/L) in monitoring well MW-08-01 at a maximum concentration of 5,340 µg /L.

- Dissolved manganese was detected above the NMWQCC standard (200 µg/L) in six wells with concentrations ranging from 220 µg/L (MW-08-08) to 1,850 µg/L (MW-08-01).

- Concentrations of six unfiltered (total) metals (aluminum, antimony, arsenic, iron, manganese and thallium) exceeded the USEPA MCLs.

- Total aluminum concentrations were above the USEPA Secondary MCL (50 µg/L) in eight monitoring wells with concentrations ranging from 54 J µg/L (MW-08-08) to 250 µg/L (MW-08-07). However, all aluminum detections were all below the NMED approved background level (1,043 µg/L) (Table 2, NMED, 2011b).

- Total antimony exceeded the USEPA MCL (6 µg/L) in one monitoring well (MW-08-06) with a concentration of 8.8 J µg/L.

- Total arsenic exceeded the USEPA MCL (10 µg/L) in five wells with detections ranging from 11 J µg/L (MW-08-03) to 39 µg/L (MW-08-07).

- Total Iron exceeded the USEPA Secondary MCL (300 µg/L) in four wells with detections ranging from 380 µg/L (MW-08-05) to 9,230 µg/L (MW-08-01).

- Total manganese concentrations were above the USEPA Secondary MCL (50 µg/L) in seven monitoring wells with concentrations ranging from 67 µg/L (MW-08-05) to 2,020 µg/L (MW-08-01).

- Total thallium exceeded the USEPA MCL (2 µg/L) in one monitoring well (S10-MW01) with a concentration of 7.4 J µg/L. However, this detection of thallium was below the calculated UTL (15 µg/L [NationViewIBhate JVIII, 2011]) and therefore, most likely represents the natural variability of groundwater geochemistry at HAFB.

- Chloride concentrations in monitoring wells S10-MW01 (3,330 mg/L) and SWMU183-MW03 (930 mg/L) exceeded the USEPA Secondary MCL and NMWQCC standard (250 mg/L), but were below the NMED approved background level (35,040 mg/L [Table 2, NMED, 2011b]).

- Fluoride was detected in monitoring wells S10-MW01 (3.34 mg/L) and SWMU183-MW03 (1.67 mg/L) and exceeded the NMWQCC groundwater standard (1.6 mg/L).

- Nitrate exceeded the USEPA MCL (10 mg/L) in one monitoring well (SWMU183-MW03) at a concentration of 64.2 mg/L.

- Sulfate concentrations in monitoring wells S10-MW01 (5,940 mg/L) and SWMU183-MW03 (2,780 mg/L) exceeded the USEPA Secondary MCL (250 mg/L), but were below the NMED approved background level (17,419 mg/L [Table 2, NMED, 2011b]).

- Total dissolved solids concentrations ranged from 2,850 mg/L (MW-08-05) to 29,300 mg/L (MW-08-08), which exceeded both the NMWQCC groundwater standard (1,000 mg/L) and USEPA Secondary MCL (500 mg/L).

7.2.3 SD-08 LTM Quarter 3, Summer 2012

Monitoring wells MW-08-01 through MW-08-08, SWMU183-MW03, S10-MW01 and S10-MW06 were sampled July 23 - 24, 2012. Based on the results of the second quarterly groundwater sampling event (Spring 2012) monitoring well S10-MW06 was added to the SD-08 network to assist with delineating the downgradient extent of the 1,2-DCA plume. Groundwater samples were submitted to GCAL for VOC, TAL metals (total and dissolved), General Chemistry (nitrate-nitrite, chloride, sulfate, fluoride), and TDS analysis. Note: The NMED directed HAFB to resume the sampling and analysis for the general chemistry parameters at all SD-08 monitoring wells. In addition, S10-MW06 was only sampled for VOCs. A summary of the analytical results displaying detections only is provided as Table 5-1 (Appendix A-7-4). Groundwater constituents that exceeded USEPA MCLs and/or NMWQCC standards are presented Figure 5-1 (Appendix A-7-4). Listed below is a summary of the groundwater analytical data from the third quarterly sampling event conducted in July 2012.

- 1,2-DCA was the only VOC that was detected above its respective USEPA MCL and/or NMWQCC standard.

- 1,2-DCA was detected with concentrations that exceed the USEPA MCL (5 µg/L) in monitoring wells MW-08-01 (16.3 µg/L), MW-08-07 (81.5 µg/L), and S10-MW01 (17.4 µg/L). Figure 5-2 (Appendix A-7-4) illustrates the isocontours of 1-2-DCA concentrations detected above the MCL.

- Concentrations of two dissolved metals (iron and manganese) exceeded the NMWQCC standards.

- Dissolved iron was detected above the NMWQCC standard (1,000 µg/L) in monitoring wells MW-08-01 and MW-08-02 at concentrations of 5,170 µg/L and 1,530 µg/L respectively.

- Dissolved manganese was detected above the NMWQCC standard (200 µg/L) in five wells with concentrations ranging from 210 µg/L (S10-MW01) to 2,190 µg/L (MW-08-02).

- Concentrations of five unfiltered (total) metals (aluminum, arsenic, iron, manganese and thallium) exceeded the USEPA MCLs.

- Total aluminum exceeded the USEPA Secondary Drinking Water Standard (50 µg/L) in two wells (SWMU183-MW03 [180 µg/L] and MW-08-08 [520 µg/L]) but both detections were below the NMED approved background concentration for total aluminum (1,043 µg/L [Table 2, NMED, 2011b]) in both wells.

- Total arsenic exceeded the USEPA MCL (10 µg/L) in five wells with detections ranging from 12 µg/L (S10-MW01) to 44 µg/L (MW-08-07).

- Total Iron exceeded the USEPA Secondary MCL (300 µg/L) in four wells with detections ranging from 690 µg/L (MW-08-05) to 4,890 µg/L (MW-08-01).

- Total manganese concentrations were above the USEPA Secondary MCL (50 µg/L) in six monitoring wells with concentrations ranging from 120 µg/L (MW-08-08) to 3,010 µg/L (MW-08-02).

- Total thallium exceeded the USEPA MCL (2 µg/L) in eight monitoring wells with concentrations ranging from 3 J µg/L (S10-MW01) to 9.5 J µg/L (MW-08-08). However, these detection of thallium were below the calculated UTL (15 µg/L [NationViewIBhate JVIII, 2011]) and therefore, most likely represent the natural variability of groundwater geochemistry at HAFB.

- Chloride exceeded the USEPA Secondary MCL and NMWQCC standard (250 mg/L), but was below the NMED approved background level (35,040 mg/L) (Table 2, NMED, 2011b) in eight monitoring wells with concentrations ranging from 446 mg/L (MW-08-07) to 12,400 mg/L (MW-08-08).

- Fluoride concentrations exceeded the NMWQCC groundwater standard (1.6 mg/L) in six monitoring wells with concentrations ranging from 2.21 mg/L (MW-08-03) to 5.41 mg/L (MW-08-01).

- Nitrate exceeded the NMWQCC groundwater standard and USEPA MCL (10 mg/L) in four monitoring wells MW-08-03 (11.7 mg/L), MW-08-06 (15.9 mg/L), MW-08-08 (25.8 mg/L) and SWMU183-MW03 (55.9 mg/L).

- Sulfate was detected in all monitoring wells above the USEPA Secondary MCL (250 mg/L) but was below the NMED approved background level (17,419 mg/L) (Table 2, NMED, 2011b) with detections ranging from 1,590 mg/L (MW-08-05) to 8,070 mg/L (MW-08-08).

- Total dissolved solids concentrations exceeded both the NMWQCC groundwater standard (1,000 mg/L) and USEPA Secondary MCL (500 mg/L) with concentrations ranging from 2,700 mg/L (MW-08-05) to 30,700 mg/L (MW-08-05).

7.2.4 SD-08 LTM Quarter 4, Fall 2012

Monitoring wells MW-08-01 through MW-08-08, SWMU183-MW03, S10-MW01 and S10-MW06 were sampled October 22 - 24, 2012. Groundwater samples were submitted to GCAL for VOC, TAL metals (dissolved), mercury (total), General Chemistry (nitrate-nitrite, chloride, sulfate, fluoride), and TDS analysis. With the exception of mercury, total TAL metals were not analyzed for during the fourth quarter in accordance with NMED correspondence dated September 20, 2012 (Attachment A-8). As a result of this change the detected dissolved metals are now compared to the lower of the two applicable actions levels (USEAP MCLs and NMWQCC groundwater standards) as per the NMED permit (Appendix 4-F, NMED, 2004). A summary of the analytical results displaying detections only is provided as Table 5-1 (Appendix A-7-5). Groundwater constituents that exceeded USEPA MCLs and/or NMWQCC standards are presented Figure 5-1 (Appendix A-7-5). Listed below is a summary of the groundwater analytical data from the fourth quarterly sampling event conducted in October 2012.

- 1,2-DCA and 1,2-DCP were the only VOCs that were detected above their respective USEPA MCLs and NMWQCC standards.

- 1,2-DCA was detected with concentrations that exceed the USEPA MCL (5 µg/L) in monitoring wells MW-08-01 (29.3 µg/L), MW-08-02 (14.5 µg/L), MW-08-07 (69.6 µg/L), and S10-MW01 (15.6 µg/L). Figure 5-2 (Appendix A-7-5) illustrates the isocontours of 1-2-DCA concentrations detected above the MCL.

- 1,2-DCP was detected with a concentration that exceeds the USEPA MCL (5 µg/L) in monitoring well MW-08-01 (5.58 µg/L).

- A total of seven dissolved metals (aluminum, antimony, arsenic, iron, lead, manganese, and thallium) were detected above their respective USEPA MCLs and/or NMWQCC groundwater standards.

- Aluminum was detected in the groundwater samples collected from three monitoring wells within the USEPA Secondary MCL range (50 – 200 µg/L) at concentrations ranging from 73 J µg/L (MW-08-04) to 130 J µg/L (MW-08-03 and S10-MW06).

- Antimony was detected in the groundwater samples collected from seven monitoring wells above the USEPA MCL at concentrations ranging from 7.4 J µg/L (MW-08-05) µg/L to 28 J µg/L (MW-08-08).

- Arsenic was detected in the groundwater samples collected from nine monitoring wells above the USEPA MCL (10 µg/L) with concentrations ranging from 12 µg/L (SWMU183-MW03) to 69 µg/L (MW-08-07).

- Iron was detected in the groundwater samples collected from two monitoring wells above the USEPA Secondary MCL (300 µg/L) at a concentrations of 5,520 µg/L (MW-08-01) and 920 µg/L (MW-08-02).

- Lead was detected in one groundwater sample above the USEPA MCL (15 µg/L) at a concentration of 43 mg/L (MW-08-05).

- Manganese was detected in groundwater samples collected from six monitoring wells above the USEPA Secondary MCL (50 µg/L) with concentrations ranging from 70 µg/L (S10-MW06) to 1,660 µg/L (MW-08-01).

- Thallium was detected in groundwater samples collected from three monitoring wells above the USEPA MCL (2 µg/L) at concentrations ranging from 3.7 J µg/L (MW-08-06) µg/L to 5.6 J µg/L (MW-08-04). However, these detections of thallium were below the calculated UTL (15 µg/L [NationViewIBhate JVIII, 2011]) and therefore, most likely represent the natural variability of groundwater geochemistry at HAFB.

- Chloride exceeded the USEPA Secondary MCL and NMWQCC standard (250 mg/L), but was below the NMED approved background level (35,040 mg/L) (Table 2, NMED, 2011b) in nine monitoring wells with concentrations ranging from 485 mg/L (MW-08-07) to 12,300 mg/L (MW-08-08).

- Fluoride concentrations exceeded the NMWQCC groundwater standard (1.6 mg/L) in six monitoring wells with concentrations ranging from 1.69 mg/L (S10-MW01) to 4.19 mg/L (MW-08-05).

- Nitrate exceeded the NMWQCC groundwater standard and USEPA MCL (10 mg/L) in five monitoring wells with concentrations ranging from 12.3 mg/L (MW-08-03) to 47.9 mg/L (SWMU183-MW03).

- Sulfate was detected in all monitoring wells above the USEPA Secondary MCL (250 mg/L) but was below the NMED approved background level (17,419 mg/L) (Table 2, NMED, 2011b) with detections ranging from 1,640 mg/L (MW-08-05) to 7,540 mg/L (MW-08-08).

- Total dissolved solids concentrations exceeded both the NMWQCC groundwater standard (1,000 mg/L) and USEPA Secondary MCL (500 mg/L) with concentrations ranging from 2,930 mg/L (MW-08-05) to 31,800 mg/L (MW-08-08).

7.2.5 SD-08 LTM Quarter 5, Winter 2013

Monitoring wells MW-08-01 through MW-08-08, SWMU183-MW03, S10-MW01 and S10-MW06 were sampled January 21 – 22, 2013. Groundwater samples were submitted to GCAL for VOC, TAL metals (dissolved), mercury (total), General Chemistry (nitrate-nitrite, chloride, sulfate, fluoride), and TDS analysis. A summary of the analytical results displaying detections only is provided as Table 5-1 (Appendix A-7-6). Groundwater constituents that exceeded USEPA MCLs and/or NMWQCC standards are presented Figure 5-1 (Appendix A-7-6). Listed below is a summary of the groundwater analytical data from the fifth quarterly sampling event conducted in January 2013.

- 1,2-DCA was the only VOC that was detected above its respective USEPA MCL and/or NMWQCC standard.

- 1,2-DCA was detected with concentrations that exceed the USEPA MCL (5 µg/L) in monitoring wells MW-08-01 (23.8 µg/L), MW-08-02 (63.9 µg/L), MW-08-07 (49.2 µg/L), and S10-MW01 (13.5 µg/L). Figure 5-2 (Appendix A-7-6) illustrates the isocontours of 1-2-DCA concentrations detected above the MCL.

- A total of four dissolved metals (antimony, iron, manganese, and thallium) were detected above their respective USEPA MCLs and/or NMWQCC groundwater standards.

- Antimony was detected in the groundwater samples collected from eight monitoring wells above the USEPA MCL (6 µg/L) at concentrations ranging from 19 J µg/L (SWMU183-MW03) µg/L to 39 J µg/L (S10-MW01 and S10-MW06).

- Iron was detected in the groundwater samples collected from two monitoring wells above the USEPA Secondary MCL (300 µg/L) at concentrations ranging from 660 µg/L (MW-08-02) to 6,070 µg/L (MW-08-01).

- Manganese was detected in groundwater samples collected from eight monitoring wells above the USEPA Secondary MCL (50 µg/L) with concentrations ranging from 56 J µg/L (MW-08-05) to 1,840 µg/L (MW-08-01).

- Thallium was detected in groundwater samples collected from five monitoring wells above the USEPA MCL (2 µg/L) at concentrations ranging from 21 J µg/L (SWMU183-MW03) µg/L to 35 J µg/L (MW-08-01).

- Chloride exceeded the USEPA Secondary MCL and NMWQCC standard (250 mg/L), but was below the NMED approved background level (35,040 mg/L) (Table 2, NMED, 2011b) in nine monitoring wells with concentrations ranging from 389 mg/L (MW-08-07) to 10,300 mg/L (MW-08-08).

- Fluoride concentrations exceeded the NMWQCC groundwater standard (1.6 mg/L) in seven monitoring wells with concentrations ranging from 1.69 J mg/L (SWMU183-MW03) to 5.03 mg/L (MW-08-05).

- Nitrate exceeded the NMWQCC groundwater standard and USEPA MCL (10 mg/L) in five monitoring wells with concentrations ranging from 14.2 mg/L (MW-08-03) to 47.5 mg/L (S10-MW06).

- Sulfate was detected in all monitoring wells above the USEPA Secondary MCL (250 mg/L) but was below the NMED approved background level (17,419 mg/L) (Table 2, NMED, 2011b) with detections ranging from 1,630 mg/L (MW-08-05) to 7,320 mg/L (S10-MW06).

- Total dissolved solids concentrations exceeded both the NMWQCC groundwater standard (1,000 mg/L) and USEPA Secondary MCL (500 mg/L) with concentrations ranging from 2,270 mg/L (MW-08-05) to 31,600 mg/L (MW-08-06).

7.2.6 SD-08 LTM Quarter 6, Spring 2013

Monitoring wells MW-08-01 through MW-08-08, SWMU183-MW03, S10-MW01, S10-MW02 and S10-MW06 were sampled April 8 - 9, 2013. Groundwater samples were submitted to GCAL for VOC, TAL metals (dissolved), mercury (total), nitrate, and TDS analysis. Based on correspondence from the NMED dated October 5, 2012 (Attachment A) the analysis of nitrite, chloride, fluoride, and sulfate were discontinued and monitoring well S10-MW02 was added to the SD-08 network. A summary of the analytical results displaying detections only is provided as Table 5-2 (Appendix A-7-7). Groundwater constituents that exceeded USEPA MCLs and/or NMWQCC standards are presented Figure 5-1 (Appendix A-7-7). Listed below is a summary of the groundwater analytical data from the sixth quarterly sampling event conducted in April 2013.

- 1,2-DCA and 1,2-DCP were the only VOCs that were detected above their respective USEPA MCLs and NMWQCC standards.

- 1,2-DCA was detected with concentrations that exceed the USEPA MCL (5 µg/L) in monitoring wells MW-08-01 (27.9 µg/L), MW-08-02 (5.37 µg/L), MW-08-07 (89.2 µg/L), and S10-MW01 (16 µg/L). Figure 5-2 (Appendix A-7-7) illustrates the isocontours of 1-2-DCA concentrations detected above the MCL.

- 1,2-DCP was detected with a concentration that exceeds the USEPA MCL (5 µg/L) in monitoring well MW-08-01 (5.79 µg/L).

- A total of four dissolved metals (arsenic, iron, manganese, and thallium) were detected above their respective USEPA MCLs and/or NMWQCC groundwater standards.

- Arsenic was detected in the groundwater samples collected from ten monitoring wells above the USEPA MCL at concentrations ranging from 11 J µg/L (MW-08-05) µg/L to 56 µg/L (MW-08-07).

- Iron was detected in the groundwater samples collected from two monitoring wells above the USEPA Secondary MCL (300 µg/L) at a concentrations ranging from 710 µg/L (MW-08-02) and 7,620 µg/L (MW-08-01).

- Manganese was detected in groundwater samples collected from seven monitoring wells above the USEPA Secondary MCL (50 µg/L) with concentrations ranging from 130 µg/L (MW-08-05) to 2,390 µg/L (MW-08-01).

- Thallium was detected in groundwater samples collected from seven monitoring wells above the USEPA MCL (2 µg/L) at concentrations ranging from 5 µg/L (S10-MW06) µg/L to 7.9 µg/L (S10-MW01). However, these detections of thallium were below the calculated UTL (15 µg/L [NationViewIBhate JVIII, 2011]) and therefore, most likely represent the natural variability of groundwater geochemistry at HAFB.

- Nitrate exceeded the NMWQCC groundwater standard and USEPA MCL (10 mg/L) in six monitoring wells with concentrations ranging from 13 mg/L (S10-MW02) to 49.3 mg/L (S10-MW06).

- Total dissolved solids concentrations exceeded both the NMWQCC groundwater standard (1,000 mg/L) and USEPA Secondary MCL (500 mg/L) with concentrations ranging from 2,890 mg/L (MW-08-05) to 26,900 mg/L (MW-08-08).

At the request of the NMED in correspondence dated October 5, 2012 (Attachment A-9) four new monitoring wells (SD08-MW10 through SD08-MW13) were installed and developed to further delineate the up and downgradient extent of 1,2-DCA groundwater contamination (Figure 5-2). In addition, the NMED requested the collection of two soil samples from the SD08-MW10 and SD08-MW11 soil borings which are located upgradient of site SD-08 in the vicinity of Building 80 at site AOC-RR (Figure 5-2). The five soil samples (including one duplicate) were submitted to GCAL for VOC and TAL metals analysis. The analytical results for these soil samples are summarized in Table 5-1 (Appendix A-7-7). All VOCs were not detected and all TAL metals were detected at concentrations below their applicable NMED residential SSLs and USEPA RSLs.

7.2.7 SD-08 LTM Quarter 7, Summer 2013

Monitoring wells MW-08-01 through MW-08-08, SD08-MW10 through SD08-MW13 [new up and downgradient wells installed March 2013], SWMU183-MW03, S10-MW01, S10-MW02 and S10-MW06 were sampled July 22 - 31, 2013. Groundwater samples were submitted to GCAL for VOC, TAL metals (dissolved), mercury (total), nitrate, and TDS analysis. A summary of the analytical results displaying detections only is

provided as Table 5-1 (Appendix A-7-8). Groundwater constituents that exceeded USEPA MCLs and/or NMWQCC standards are presented Figure 5-1 (Appendix A-7-8). Listed below is a summary of the groundwater analytical data from the seventh quarterly sampling event conducted in July 2013.

- 1,2-DCA 1,2-DCP and benzene were the only VOCs that were detected above their respective USEPA MCLs and NMWQCC standards.

- 1,2-DCA was detected with concentrations that exceed the USEPA MCL (5 µg/L) in monitoring wells MW-08-01 (45.4 µg/L), MW-08-02 (10.8 µg/L), MW-08-07 (39.9 µg/L), SD08-MW11 (80.5 µg/L) and S10-MW01 (12.7 µg/L). Figure 5-2 (Appendix A-7-8) illustrates the isocontours of 1-2-DCA concentrations detected above the MCL.

- 1,2-DCP was detected in four monitoring wells (MW-08-01, MW-08-07, S10-MW01 and SD08-MW11) and exceeded the USEPA MCL (5 µg/L) in wells MW-08-01 (6.72 µg/L) and SD08-MW11 (5.37 µg/L).

- Benzene was detected in two monitoring wells (MW-08-01 and SD08-MW10) and exceeded the USEPA (5 µg/L) in well SD08-MW10 (58.4 µg/L).

NOTE: The USEPA MCL groundwater exceedances of 1-2-DCA, 1,2-DCP detected in the new monitoring well SD08-MW11 and benzene detected in the new monitoring well SD08-MW10 confirm that upgradient Site AOC-RR is the source of VOC groundwater currently and historically detected at Site SD-08.

- A total of three dissolved metals (arsenic, iron, and manganese) were detected above their respective USEPA MCLs and/or NMWQCC groundwater standards.

- Arsenic was detected above the USEPA MCL (10 µg/L) in the groundwater samples collected from three monitoring wells at concentrations ranging from 25 µg/L (MW-08-07) to 64 J µg/L (SD08-MW12).

- Iron was detected in the groundwater samples collected from three monitoring wells above the USEPA Secondary MCL (300 µg/L) at a concentrations ranging from 540 µg/L (SD08-MW10) to 7,110 µg/L (MW-08-01).

- Manganese was detected in groundwater samples collected from ten monitoring wells above the USEPA Secondary MCL (50 µg/L) with concentrations ranging from 69 J µg/L (SD08-MW12) to 2,570 µg/L (SD08-MW11).

- Nitrate exceeded the NMWQCC groundwater standard and USEPA MCL (10 mg/L) in six monitoring wells with concentrations ranging from 10.7 mg/L (S10-MW02) to 46.7 mg/L (S10-MW06).

- Total dissolved solids concentrations exceeded both the NMWQCC groundwater standard (1,000 mg/L) and USEPA Secondary MCL (500 mg/L) with concentrations ranging from 2,950 mg/L (MW-08-05) to 69,700 mg/L (SD08-MW12).

7.2.8 SD-08 LTM Quarter 8, Fall 2013

Monitoring wells MW-08-01 through MW-08-08, SD08-MW10 through SD08-MW13, SWMU183-MW03, S10-MW01, S10-MW02 and S10-MW06 were sampled November 4 - 7, 2013. Groundwater samples were submitted to GCAL for VOC, TAL metals (dissolved), mercury (total), nitrate, and TDS analysis. A summary of the analytical results displaying detections only is provided as Table 5-1 (Appendix A-7-9). Groundwater constituents that exceeded USEPA MCLs and/or NMWQCC standards are presented Figure 5-1 (Appendix A-7-9). Listed below is a summary of the groundwater analytical data from the eighth quarterly sampling event conducted in November 2013.

- 1,2-DCA 1,2-DCP and benzene were the only VOCs that were detected above their respective USEPA MCLs and NMWQCC standards.

- 1,2-DCA was detected with concentrations that exceed the USEPA MCL (5 µg/L) in monitoring wells MW-08-01 (42.2 µg/L), MW-08-07 (30.5 µg/L), SD08-MW11 (77.3 µg/L) and S10-MW01 (22 µg/L). Figure 5-2 (Appendix A-7-9) illustrates the isocontours of 1-2-DCA concentrations detected above the MCL.

- 1,2-DCP was detected in three monitoring wells (MW-08-01, MW-08-07 and SD08-MW11) and exceeded the USEPA MCL (5 µg/L) in well MW-08-01 (6.47 µg/L).

- Benzene was detected in two monitoring wells (MW-08-01 and SD08-MW10) and exceeded the USEPA (5 µg/L) in well SD08-MW10 (62.9 µg/L).

- A total of three dissolved metals (arsenic, iron, and manganese) were detected above their respective USEPA MCLs and/or NMWQCC groundwater standards.

- Arsenic was detected above the USEPA MCL (10 µg/L) in the groundwater samples collected from four monitoring wells at concentrations ranging from 13 J µg/L (S10-MW02) to 72 J µg/L (MW-08-06).

- Iron was detected in the groundwater samples collected from four monitoring wells above the USEPA Secondary MCL (300 µg/L) at a concentrations ranging from 1,150 µg/L (MW-08-02) to 8,100 µg/L (MW-08-01).

- Manganese was detected in groundwater samples collected from ten monitoring wells above the USEPA Secondary MCL (50 µg/L) with concentrations ranging from 66 J µg/L (SD08-MW12) to 2,620 µg/L (MW-08-01).

- Nitrate exceeded the NMWQCC groundwater standard and USEPA MCL (10 mg/L) in six monitoring wells with concentrations ranging from 11.6 mg/L (MW-08-03) to 43.2 mg/L (S10-MW06).

- Total dissolved solids concentrations exceeded both the NMWQCC groundwater standard (1,000 mg/L) and USEPA Secondary MCL (500 mg/L) with concentrations ranging from 2,210 mg/L (SD08-MW10) to 59,200 mg/L (SD08-MW12).

At the request of the NMED correspondence, *Approval with Modifications SD-08 (Solid Waste Management Unit – 82) Long Term Monitoring Report, Quarter 8, Fall 2013, February 2014 HAFB, EPA ID# NM6572124422 HWB-HAFB-14-002* (Attachment A-15), two temporary upgradient monitoring wells (SD08-TEMP1 and SD08-TEMP2) were installed and sampled (including existing well MW-09-01) for VOCs by NationView in August 2014. In addition, subsurface soil samples were collected from the two temporary well soil borings for VOC analysis.

The purpose of additional groundwater investigation was to determine if groundwater upgradient (west-northwest) of AOC-RR has been impacted by VOC contamination (i.e., 1,2-DCA and benzene) which is present at AOC-RR and SD-08 above applicable action levels. Based upon the laboratory analytical results VOCs were not detected in the three upgradient wells groundwater samples or the soil samples collected from the two temporary monitoring well boreholes. As a result, the upgradient western boundary of the AOC-RR/SD-08 VOC plume was identified. A copy of the *Technical Memorandum – Temporary Well Installation, SD-08 Holloman Air Force Base, New Mexico* (NationView, 2014c) is provided in Attachment B of this report.

8 RISK BASED EVALUATION

This section presents the methodology used by the Risk Assessment Management (RAM) Group for risk evaluation for the SD-08 Site. The methodology consists of the following:

1. Compilation of data (refer to Section 8.1);
2. Identification of (COPCs) (refer to Section 8.2);
3. Development of exposure model (EM) (refer to Section 8.3);
4. Calculation of representative concentrations (refer to Section 8.4);
5. Calculation of risk for complete exposure pathways (refer to Section 8.5);
6. Calculation of cumulative risk (refer to Section 8.6); and
7. Uncertainty analysis (refer to Section 8.7).

Each of the above steps is discussed in detail below.

8.1 Compilation of Data

Following is a summary of the soil data available at the SD-08:

Date	Sample Locations	No. of Sample Locations	No. of Samples
1991	SB-08-01 to SB-08-06	6	12
1993	SB-08-07 to SB-08-20	14	24
October 2006	SD-08-21 to SD-08-23	3	6*
October 2006	SD-08-24	1	2**
March 2013	SD08-MW10, SD08-MW11	2	5#

Notes:
* One duplicate sample was collected from soil boring SD-08-21 at 2 ft bgs.
** Samples were collected and analyzed for geotechnical parameters. The results for geotechnical parameters are presented in Table 7-2.
\# One duplicate sample was collected from soil boring SD08-MW11 at 9 ft bgs.

Following is a summary of the groundwater data available at the SD-08:

Monitoring Well	No. of Sampling Events	Sampling Period
MW-08-01*	15	1991 – Nov. 2013
MW-08-02**	9	1991 – Nov. 2103
MW-08-03	16	1991 – Nov. 2013

Monitoring Well	No. of Sampling Events	Sampling Period
MW-08-04	15	1994 – Nov. 2013
MW-08-05	14	1994 – Nov. 2013
MW-08-06[#]	10	1994 – Nov. 2013
MW-08-07[##]	9	Dec. 2006 – Nov. 2013
MW-08-08[+]	9	Nov. 2006 – Nov. 2013
HSTE-10/S10-MW01[++]	10	1994 – Nov. 2013
S10-MW02	3	Apr. 2013 – Nov. 2013
S10-MW06[$]	6	Jul. 2013 – Nov. 2013
SWMU183-MW03	7	Apr. 2012 – Nov. 2013
SD08-MW10	2	Jul. 2013 – Nov. 2013
SD08-MW11	2	Jul. 2013 – Nov. 2013
SD08-MW12	2	Jul. 2013 – Nov. 2013
SD08-MW13[$$]	2	Jul. 2013 – Nov. 2013

Notes:
[*] One duplicate sample was collected from MW-08-01 in January 2012, April 2012, April 2013, and November 2013.
[**] One duplicate sample was collected from MW-08-02 in April 2013.
[#] Sample collected from MW-08-06 in December 2005 was analyzed only for TDS.
[##] One duplicate sample was collected from MW-08-07 in July 2012, October 2012, and January 2013.
[+] One duplicate sample was collected from MW-08-08 in November 2006.
[++] One duplicate sample was collected from S10-MW01 in May 2012, October 2012, January 2013, and July 2013.
[$] One duplicate sample was collected from S10-MW06 in July 2013.
[$$] One duplicate sample was collected from SD08-MW13 in November 2013.

Chemicals with at least one detected concentration anywhere on the site were considered for the risk assessment (RA). Tables 8-1(a) and 8-2(a) present the analytical data for chemicals with at least one detected concentration for soil and groundwater, respectively. For chemicals not detected, reporting limits are presented.

The data compiled in Tables 8-1(a) and 8-2(a) were quantitatively evaluated for use in the RA as follows:

- Conservatively, all the available soil data collected since 1991 were used. This is a conservative assumption since no known releases have occurred at the site since these data were collected and the residual concentrations of organic chemicals would be expected to decrease due to natural attenuation processes. Additionally, data from six soil borings were collected in October 2006 and March 2013, and these data would not be sufficient to characterize the site;
- Groundwater data collected in recent two years (2012 and 2013) were used since these data are representative of current conditions.
- Conservatively, data with laboratory qualifiers “B”, “J”, “L”, and “P” were considered as detected concentrations.

- All duplicate samples were averaged as follows:
    - If both samples contained detectable concentrations, the average of the two were taken and considered as detected;
    - If one of the samples contained a detected concentration and the other was below the reporting limit, the result below the reporting limit was replaced with half the reporting limit and average of the two were taken and considered as detected; and
    - If both samples had concentrations below the reporting limits, the average of two reporting limits was taken and the sample was considered as not detected.
- For TRPH in soil, 12 samples, collected in 1991 and analyzed using USEPA Method 418.1, are available. These TRPH results in soil were not considered for the following reasons:
    - The analytical method (USEPA Method 418.1) is known to cause false positives since the extraction solvent used, Freon 113, also extracts organic compounds that are naturally present in soils (George, 1992). In 1998, it was only recommended to use as a screening tool per the *Total Petroleum Hydrocarbon Criteria Working Group (TPHCWG) Series Volume I Analysis of Petroleum Hydrocarbons in Environmental Media* (TPHCWG, 1998). This method is no longer in use since the USEPA removed Method 418.1 in 2007.
    - These 12 samples were also analyzed for VOCs and the detected concentrations of VOCs were reported with laboratory qualifiers “J” and “B”. The concentrations were below the screening levels (refer to Section 2.4.1).
    - The data are 23 years old and the current concentrations of petroleum hydrocarbons would have decreased significantly due to the natural attenuation processes including volatilization and biodegradation.
    - The biodegradation of petroleum hydrocarbon in soil are reported in several documents (Baedecker, et al., 2011; Bhoopathy, 2004; Leahy and Colwell, 1990; USEPA, 2012).
- For metals in groundwater, total metal concentrations are available for a few sampling events except for mercury; however, dissolved metal concentrations are available from all the monitoring wells for all eight groundwater monitoring events in 2012 to 2013. Based on this, dissolved metal concentrations were used in the risk calculations. Also refer to NMED’s letter dated September 20, 2012 included as Attachment A-8.

Based on the above considerations, Tables 8-1(b) and 8-2(b) present the soil and groundwater data used for the RA. Further, Tables 8-1(c) and 8-2(c) present summary information for the soil and groundwater data used for the RA.

Summary of Data Used for Risk Assessment

Based on the above, the soil data used for the RA are summarized below:

Date	Sample Locations	No. of Sample Locations	No. of Samples
1991	SB-08-01 to SB-08-06	6	12
1993	SB-08-07 to SB-08-20	14	24
October 2006	SD-08-21 to SD-08-23	3	6
March 2013	SD08-MW10, SD08-MW11	2	5

Figure 2-6 of Appendix A-3, Figure 5-1, and Figure 5-2 show the locations of the soil samples used for the RA.

Based on the above, the groundwater data used for the RA are summarized below:

Monitoring Well	No. of Sampling Event	Sampling Period
MW-08-01	8	Jan. 2012 – Nov. 2013
MW-08-02	8	Jan. 2012 – Nov. 2013
MW-08-03	8	Jan. 2012 – Nov. 2013
MW-08-04	8	Jan. 2012 – Nov. 2013
MW-08-05	8	Jan. 2012 – Nov. 2013
MW-08-06	8	Jan. 2012 – Nov. 2013
MW-08-07	8	Jan. 2012 – Nov. 2013
MW-08-08	8	Jan. 2012 – Nov. 2013
S10-MW01	8	Apr. 2012 – Nov. 2013
S10-MW02	3	Apr. 2013 – Nov. 2013
S10-MW06	6	Jul. 2012 – Nov. 2013
SWMU183-MW03	7	Apr. 2012 – Nov. 2013
SD08-MW10	2	Jul. 2013 – Nov. 2013
SD08-MW11	2	Jul. 2013 – Nov. 2013
SD08-MW12	2	Jul. 2013 – Nov. 2013
SD08-MW13	2	Jul. 2013 – Nov. 2013

Figure 5-2 shows the location of the groundwater samples used for the RA.

8.2 Identification of Chemicals of Potential Concern

To identify COPCs, the maximum detected concentration of each chemical that had at least one detected concentration was compared with its applicable screening level as discussed below.

8.2.1 Chemicals of Potential Concern in Soil

As described in Section 2.3.1, the screening levels for soil were obtained from the following sources:

- NMED SSLs for residential land use (NMED, 2012b);
- USEPA RSLs for residential land use (USEPA, 2013); and
- NMED Approved HAFB Background Levels (NMED, 2011b).

Table 8-1(d) presents the comparison of maximum detected concentrations with screening levels for soil. The chemicals with the maximum detected concentrations greater than the screening levels were considered as COPCs.

Screening level was not available for endosulfan sulfate. Since toxicity values of this chemical were not available based on the review of literature, screening level could not be developed. Therefore, this chemical was not considered a COPC. However, this chemical is not a concern since (i) it was detected in 5 samples of total 18 soil samples; (ii) the detected concentrations were observed in samples collected in 1991 with "J" laboratory qualifier; and (iii) the most recent soil samples collected in October 2006 showed the concentrations below the reporting limits.

Based on this comparison, none of maximum detected concentrations exceeded the screening levels. Therefore, no COPC was identified in soil.

8.2.2 Chemicals of Potential Concern in Groundwater

As described in Section 2.3.2, the screening levels for groundwater were obtained from the following sources:

- NMWQCC Groundwater Standards for Contaminants (NMAC 20.6.2.3103);
- USEPA National Priority Drinking Water Regulation MCLs (USEPA, 2009); and
- NMED Approved HAFB Background Levels (NMED, 2011b).

Table 8-2(d) presents the comparison of maximum detected concentrations with screening levels for groundwater. The chemicals with the maximum detected concentrations greater than the screening levels and the chemicals without screening levels were considered COPCs. Based on this comparison, 26 COPCs in groundwater (4 inorganics, 8 metals, and 14 VOCs) were identified. Table 8-3 summarizes the COPCs in groundwater.

8.3 Development of Exposure Model

This section presents the EM for the SD-08. The EM identifies the potential receptors and the exposure pathways under current and anticipated future conditions.

8.3.1 Receptors

Currently, the site is capped with restricted access and there is no building on it. Therefore, there are no receptors for current land use. An occasional maintenance worker may visit the site and potentially be exposed to the residual chemicals on-site. However, their exposure frequency and exposure duration would be very small and hence the exposure and risk are negligible compared with that of the future receptors evaluated in this risk assessment.

Although HAFB has no plans to develop this property, conservatively it was assumed that the future land use will be residential. Therefore, the resident (including child and adult) is considered a receptor of concern under future conditions. Additionally, in the future, construction activities may occur, hence potential future construction worker is also considered a receptor of concern.

8.3.2 Exposure Pathways

Tables 8-4(a) and 8-4(b) present the EMs for the potential future resident and construction worker, respectively. Of the various complete exposure pathways, the following were not quantitatively evaluated:

- Outdoor inhalation from subsurface soil and groundwater by the resident – Indoor inhalation is being considered and is the more critical pathway.
- Accidental ingestion of and dermal contact with groundwater by the resident – The risks from these pathways are typically minor and would not contribute significantly to cumulative risks.
- Accidental ingestion of groundwater by the construction worker – It is highly improbable but possible that a construction worker will accidently ingest meaningful amounts of water that will result in significant exposure. This is particularly the case when the maximum depth of construction is 10 ft bgs and the depth to groundwater is more than 9 ft bgs. Thus, the construction worker may be exposed to miniscule amount of groundwater by ingestion if any.

The pathways that will be quantitatively evaluated are presented below in Section 8.3.3.

8.3.3 Summary of Complete Exposure Pathways

The complete exposure pathways that will be quantitatively evaluated are summarized below (refer to Tables 8-4(a) and 8-4(b)).

Future Resident

- Indoor inhalation of vapors from groundwater.

Future Construction Worker

- Dermal contact with groundwater; and
- Outdoor inhalation of vapors from groundwater.

8.4 Calculation of Representative Concentrations

The representative concentrations for each of the COPCs and each pathway-receptor combination were estimated using the following methodology:

- For the indoor inhalation of vapors from groundwater by the future resident, representative concentrations of groundwater were calculated using the groundwater data from five wells located within the site (MW-08-01, MW-08-02, MW-08-03, MW-08-05, and MW-08-07). This is a reasonable assumption because it is not known where a future residential building may be built.

- For the dermal contact with and outdoor inhalation of vapors from groundwater by the future construction worker, representative concentrations of groundwater were calculated using the groundwater data from five wells located within the site (MW-08-01, MW-08-02, MW-08-03, MW-08-05, and MW-08-07). A construction worker may work on any location of the site.

- Representative concentrations were based on the 95% upper concentration limit (UCL) of the mean. The 95% UCL was calculated using the *ProUCL Version 5.0.00 Software* (USEPA, 2013b). If 95% UCL could not be calculated or the 95% UCL was greater than the maximum concentration, then the maximum concentration was used.

The representative concentrations of groundwater for the future resident and the future construction worker are presented in Table 8-5.

8.5 Calculation of Risks

This section discusses the methodology used to calculate risk for the complete exposure pathways identified in Section 8.3 of this report. As per the EM discussed in Section 8.3, the risks were calculated for the future resident and the future construction worker. Using the representative concentrations calculated in Section 8.4 and the target levels, the carcinogenic and non-carcinogenic risks of each COPC were calculated by taking the ratio of the representative concentration to the target level and multiplying the NMED's target risk levels of 1×10^{-5} for carcinogenic effects and 1.0 for non-carcinogenic effects. The development of target levels is discussed below.

8.5.1 Indoor Inhalation of Vapors from Groundwater

For this pathway, the target levels were calculated for the future resident. Since this pathway is not included in the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b) and the *Regional Screening Level (RSL) Summary Table November 2013* (USEPA, 2013a), the methodology as per the Johnson & Ettinger (J&E) model presented in the *User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings* (USEPA, 2004a) was used to calculate the target level.

This section describes the input parameters used to calculate the target levels for indoor inhalation of vapors from groundwater. The calculated target levels for the resident are presented in Table 8-9(a). The target levels for this pathway were developed only for the volatile chemicals. As per the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b), a chemical was considered volatile if it's Henry's law constant (H) is 1×10^{-5} atmospheric-cubic meters per mole (atm-m^3/mol) (unitless H of 4.2×10^{-4}) or greater and it's molecular weight is 200 grams/mole or less. Using these criteria, of the 26 COPCs in groundwater, 14 COPCs were considered volatile.

The calculation of risk requires the following:

- Toxicity values;
- Physical and chemical properties;
- Exposure factors;
- Source parameters;
- Geotechnical parameters; and
- Building parameters.

Each of these is discussed below.

8.5.1.1 Toxicity Values

The toxicity of chemicals with carcinogenic and non-carcinogenic adverse health effects is quantified using unit risk factor and reference concentration, respectively. The inhalation toxicity values for the volatile COPCs are presented in Table 8-6(a) and were obtained from the *RSL Summary Table November 2013* (USEPA, 2013a).

Note that the USEPA (2013a) followed the same hierarchy of human health toxicity values as recommended by the NMED (2012b).

As per Table 8-6(a), two volatile COPCs in groundwater (sec-butylbenzene and tert-butylbenzene) do not have inhalation toxicity values. These COPCs were detected in eight to ten groundwater samples out of 98 samples. In addition, these COPCs were not detected in any soil samples. Therefore, these COPCs were not further evaluated for this pathway.

8.5.1.2 Physical and Chemical Properties

The physical and chemical properties for COPCs are presented in Table 8-6(a) and were obtained from the *RSL Chemical-specific Parameters Supporting Table November 2013* (USEPA, 2013c). These values were used to run the USEPA spreadsheet implementation of the J&E model accessible at http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm.

8.5.1.3 Exposure Factors

The exposure factors for indoor inhalation of vapors from groundwater by the resident are presented in Table 8-6(b).

The exposure factors were obtained from the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b).

8.5.1.4 Source Parameters

The following source parameters are required to evaluate indoor inhalation of vapors.

- **Average soil temperature:** Based on the site-specific groundwater temperature measured from the monitoring wells within the site boundary in 2012 and 2013, the average groundwater temperature is 22.3 °C. The average groundwater temperature of 22.3 °C was also considered as the approximate soil temperature at the site.
- **Depth below grade to water table:** Based on the groundwater gauging data measured from the monitoring wells within the site boundary in 2012 and 2013, the average depth to groundwater is 12.7 ft bgs. This average depth to the water table of 12.7 ft bgs (386 centimeters [cm]) was used for the depth below grade to the top of contamination.
- **Thickness of capillary fringe zone:** As per Section 3.6.1 of this report, the vadose zone soil type at the SD-08 site is silty and clayey sand. The most similar soil type per the default SCS soil type listed in the USEPA (2004a) is loamy sand. Therefore, a value of 18.8 cm for loamy sand was used as per the USEPA (2004a).

These parameters are presented in Table 8-6(c).

8.5.1.5 Geotechnical Parameters

The geotechnical parameters used are presented in Table 8-6(c). Specifically, the following geotechnical parameters are required to evaluate indoor inhalation of vapors from groundwater.

- Soil dry bulk density (ρ_b);
- Soil total porosity (n); and
- Soil water-filled porosity (θ_{wv}).

For the SD-08 site, the site-specific geotechnical parameters were analyzed for two vadose zone soils (see Table 7-2 of this report). The site-specific geotechnical parameters were not used because these reported values appear inconsistent. For example the reported bulk density of 0.81 grams per milliliter (g/mL) for SB-08-SB-24-8 is likely incorrect. Similarly, the specific gravity values appear low. Therefore, default dry bulk density, total porosity, and water-filled porosity values for loamy sand soil types were used. These geotechnical parameters are presented in Table 8-6(c).

For the capillary fringe zone, it was assumed that the soil total porosity was the same as for the vadose zone and 90% of the soil total porosity was the soil water-filled porosity.

8.5.1.6 Building Parameters

The following building parameters are required to evaluate indoor inhalation of vapors:

- Depth below grade to bottom of enclosed space floor;
- Enclosed space floor thickness;
- Enclosed space floor length;
- Enclosed space floor width;
- Enclosed space height;
- Floor-wall seam crack width;
- Indoor air exchange rate; and
- Average vapor flow rate into building.

The building parameter values used and the sources are presented in Table 8-6(c).

8.5.2 Dermal Contact with Groundwater

For this pathway, the target levels were calculated for the future construction worker. This section describes the procedure used to calculate the target levels for the dermal contact with groundwater by construction workers as per the *Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual Part E Supplemental Guidance for Dermal Risk Assessment* (USEPA, 2004b). The calculated target levels for the construction worker are presented in Table 8-9(b).

The calculation of target levels requires the following:

- Toxicity parameters;
- Chemical-specific parameters for dermal contact with water; and
- Exposure factors.

Each of these is discussed below.

8.5.2.1 Toxicity Values

Dermal toxicity values are not as readily available as ingestion values; therefore, these values were calculated as follows per the *Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual, Part E Supplemental Guidance for Dermal Risk Assessment* (USEPA, 2004b):

$$SF_d = \frac{SF_o}{ABS_{GI}}$$

$$RfD_d = RfD_o \times ABS_{GI}$$

where,

SF_o = Slope factor for oral exposure (milligrams per kilogram per day [mg/kg-day])$^{-1}$,

RfD_o = Reference dose for oral exposure (mg/kg-day),

SF_d = Slope factor for dermal exposure (mg/kg-day)$^{-1}$,

RfD_d = Reference dose for dermal exposure (mg/kg-day), and

ABS_{GI} = Fraction of contaminants absorbed in gastrointestinal tract (dimensionless).

The above approach is consistent with the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b). The dermal toxicity values are presented in Table 8-7(a).

8.5.2.2 Chemical-Specific Parameters for Dermal Contact with Water

The development of target levels requires chemical-specific parameters for dermal contact pathways. The chemical-specific parameters for dermal contact pathways are presented in Table 8-7(a).

8.5.2.3 Exposure Factors

The exposure factors for dermal contact with groundwater for a construction worker and the source of these parameters are presented in Table 8-7(b).

8.5.3 Outdoor Inhalation of Vapors from Groundwater

For this pathway, the target levels were calculated for the future construction worker. This section describes the procedure used to calculate the target levels for the outdoor inhalation of vapors from groundwater as per the *Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual, Part F Supplemental Guidance for Inhalation Risk Assessment* (USEPA, 2009) and the *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites* (ASTM International [ASTM],

1995). The target levels for this pathway were developed only for the volatile chemicals. The calculated target levels for the construction worker are presented in Table 8-9(b).

Specifically, the calculation of target levels requires the following:

- Toxicity parameters;
- Physical and chemical properties;
- Exposure factors; and
- Fate and transport parameters.

Each of these is discussed below

8.5.3.1 Toxicity Values

As discussed in Section 8.5.1.1, the inhalation toxicity values for COPCs are presented in Table 8-8(a).

8.5.3.2 Physical and Chemical Properties

The physical and chemical properties for COPCs are presented in Table 8-8(a).

8.5.3.3 Exposure Factors

The exposure factors for outdoor inhalation of vapors from groundwater by construction workers and the source of the values are presented in Table 8-8(b).

8.5.3.4 Fate and Transport Parameters

The fate and transport parameters for outdoor inhalation of vapors from groundwater are presented in Table 8-8(c).

8.6 Calculation of Cumulative Risks

The risk to human health was calculated for each COPC, for each complete exposure pathway, and for each receptor. The cumulative risk for each receptor, i.e., sum of risks for all chemicals and for all complete exposure pathways, was compared with target risks. The following are the target risks for each receptor:

- For potential carcinogenic health effects, the cumulative individual excess lifetime cancer risk (IELCR) for each receptor of 1×10^{-5}; and
- For potential non-carcinogenic health effects, the cumulative hazard index (HI) for each receptor of 1.0.

These target risks are consistent with the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b).

For the SD-08 site, the future resident and the future construction worker are receptors of concern. The calculated cumulative risks for the future resident and the future construction worker are presented in Tables 8-9(a) and 8-9(b), respectively.

The results indicate:

- For the future resident,
  - Cumulative IELCR for carcinogenic effects is 3×10^{-6}, which is below the acceptable target risk level of 1×10^{-5}.
  - Cumulative HI for non-carcinogenic effects is 0.04, which is below the acceptable target risk level of 1.0.
- For the future construction worker,
  - Cumulative IELCR for carcinogenic effects is 3×10^{-8}, which is below the acceptable target risk level of 1×10^{-5}.
  - Cumulative HI for non-carcinogenic effects is 0.1, which is below the acceptable target risk level of 1.0.

Based on the above, the current residual concentration of soil and groundwater are protective of future resident and future construction worker.

8.7 Uncertainty Analysis

As in any RA, the estimated carcinogenic and non-carcinogenic risks contain several sources of uncertainties. However, the general approach used in this RA has been to use conservative assumptions regarding exposure estimates, so that the estimated carcinogenic and non-carcinogenic risks represent an upper bound estimate of the risk. The following sections present the inherent sources of uncertainty and conservative assumptions used in this RA.

8.7.1 Inherent Sources of Uncertainty

The RA process is designed to provide a conservative estimate or evaluation of risks to human health. However, some degree of uncertainty is inherent to the process. Sources of uncertainty typically relate to seven areas:

- Site characterization;
- COPCs;
- Representative concentration;
- Exposure evaluation;
- Toxicity values;
- Physical and chemical properties; and

- Fate and transport parameters and models.

Inherent sources of uncertainty relating to the site characterization include:

- Field sampling location bias (sample locations were biased toward areas of highest contamination) and likely overestimation of risks.

- No consideration for source depletion, natural degradation, or attenuation of chemicals over time which is a conservative approach.

Inherent sources of uncertainty relating to the COPCs include:

- Endosulfan sulfate was considered a COPC in soil. However, this chemical is not a concern since (i) it was detected in 5 samples out of total 18 soil samples; (ii) the detected concentrations were observed in samples collected in 1991 with "J" laboratory qualifier; and (iii) the latest soil samples collected in October 2006 showed the concentrations below the reporting limits. Therefore, the underestimation of risks may not be significant.

- Consideration of 11 constituents in groundwater without groundwater screening levels as COPCs which is a conservative approach.

Inherent sources of uncertainty relating to the representative concentrations include:

- Use of current concentrations for future resident and future construction worker. This would overestimate the future risks since the concentrations would decrease due to natural attenuation processes.

Inherent sources of uncertainty relating to the exposure evaluation include:

- Assumption of frequent or routine exposure over prolonged durations, for example, the assumption that a resident stays at the same location for 30 years. This would likely overestimate the risks.

- Assumption that some pathways are negligible in comparison to others (e.g., outdoor inhalation of vapors from groundwater by future resident were not quantitatively evaluated since indoor inhalation of vapors from groundwater was evaluated). This would likely underestimate the cumulative risk.

Inherent sources of uncertainty relating to the toxicity values include:

- Use of reference dose and slope factor derived by conservative methods. For example, animal testing is typically performed at very high doses and the information is used to extrapolate to humans. To compensate for lack of sufficient and detailed information regarding the human toxicity of these chemicals, USEPA typically makes substantial conservative assumptions that

result in very conservative quantitative toxicity values (slope factor and reference dose).

- Derivation of dermal toxicity values from ingestion toxicity values.

- Chemicals without toxicity values. For example, indoor inhalation of vapors from groundwater by resident was not evaluated for sec-butylbenzene and tert-butylbenzene. However, these chemicals were detected in only eight to 10 groundwater samples out of total 96 groundwater samples. In addition, these COPCs were not detected in any soil samples. Therefore, the underestimation of risks may not be significant.

- The cumulative risk calculation i.e., sum of risks for different pathways and chemicals assumes each chemical impacts a common target organ based on a similar mechanism. This is conservative because different chemicals may affect different organs.

The above first and second sources associated with toxicity values may not estimate the true health effects of COPCs. However, typically the toxicity values are based on very conservative assumptions that result in an overestimate of the risks.

Inherent sources of uncertainty relating to the physical and chemical properties include:

- Derivation of physical and chemical properties based on a single chemical which does not consider the effects of presence of multiple chemicals. This would overestimate the risks because the presence of multiple chemicals reduces volatility and solubility.

Inherent sources of uncertainty relating to the fate and transport parameters and models include:

- Assumption of an infinite non-depleting source which is conservative.

- The modeling of inhalation exposure based on the groundwater concentration involves several assumptions. For example, the calculation of soil vapor concentration using Henry's law constant has been shown to be conservative.

8.7.2 Overall Impact of Uncertainties

As discussed above, there are numerous sources of uncertainty in the parameters used to calculate the potential risks. The above discussion indicates that the risks have been estimated using generally conservative assumptions for most of sources; therefore, overall the risks have been overestimated.

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9 CONCLUSIONS AND RECOMMENDATIONS

Analytical results (VOCs, SVOCs, pesticides and metals) for soil samples collected during the SD-08 Additional Investigation (2006) and the Sixth Quarterly LTM sampling event (April 2012) did not exceed any applicable SSLs. However, the groundwater underlying the site has been impacted with three VOCs (1,2-DCA, 1,2-DCP and benzene) which have been detected above their USEPA MCLs. At the request of the NMED four new monitoring wells (SD08-MW10 through SD08-MW13) were installed and developed in April 2013 to further delineate the up and downgradient extent of 1,2-DCA groundwater contamination at the site. Based on the final two quarters of groundwater sampling (July and November 2013) no VOCs were detected in the new monitoring wells (SD08-MW12 and SD08-MW13), therefore the downgradient extent of VOC groundwater contamination has been defined. Furthermore, the exceedances of 1-2-DCA, 1,2-DCP detected in the new upgradient monitoring well SD08-MW11, and benzene detected in the new monitoring well SD08-MW10, confirm that the upgradient Site AOC-RR is the source of VOC groundwater contamination which has been historically detected at Site SD-08 (Figure 5-2, Appendix A-7-9). Evaluation of the TDS data indicated that it has exceeded 10,000 mg/L in nine of the SD-08 network monitoring wells with concentrations ranging from 10,800 mg/L (S10-MW01) to 69,700 mg/L (SD08-MW12), hence the groundwater at SD-08 is not potable and is not considered a valid exposure pathway under USEPA guidelines (USEPA, 1986).

The risk to human health was calculated for each COPC, for each complete exposure pathway, and for each receptor. The cumulative risk for each receptor (i.e., the sum of risks for all chemicals and for all complete exposure pathways) was compared with target risks. The cumulative risk for each potential receptor was found to be less than the target risk level for each potential receptor. Therefore, the current residual concentrations of COPCs in groundwater at Site SD-08 (SWMU-82) are protective of current commercial/industrial workers, future residents, and future construction workers.

Based upon the soil and groundwater laboratory analytical results and the site specific human health risk-based evaluation (Section 8); No Further Action is recommended for site SD-08 (SWMU-82) at Holloman Air Force Base, New Mexico. NFA for Site SD-08 is based upon NMED Closure Criterion #5 which states:

> *"The site was characterized or remediated in accordance with applicable state and/or federal regulations, and the available data indicate that contaminants pose an acceptable level of risk under current and projected future land use."*

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10 REFERENCES

American Society for Testing and Materials, 1995. *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites.*

Baedecker, M.J., Eganhouse, R.P., Bekins, B.A., and Delin, G.N., 2011. Loss of Volatile Hydrocarbons from an LNAPL Oil Source. Journal of Contaminant Hydrology, 126: 140-152.

Bhate Environmental Associates, Inc. November 2003. *Basewide Quality Assurance Project Plan.*

Bhate Environmental Associates, Inc. August 2005. *Additional Investigation Requirements Work Plan, ERP Site SD-08, Holloman Air Force Base, New Mexico*.

Bhate. May 2006. *2005 Long-Term Groundwater Monitoring Report, Holloman Air Force Base, New Mexico*.

Bhate Environmental Associates, Inc. July 2007. *Final RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico.*

Bhoopathy, R., 2004. Anaerobic Biodegradation of No. 2 Diesel Fuel in Soil: A Soil Column Study. Bioresource Technology, 04: 143-151.

CH2M Hill, 1983. *Installation Restoration Program Phase I Records Search, Holloman Air Force Base, New Mexico.*

Ebasco/Groundwater Technology, October 1995. *Draft Final Site Investigation Report Waste Sites SS-06, SD-15, AOC-RR, and AOC-BBMS, Holloman Air Force Base, New Mexico.*

Foster Wheeler/Radian, June 1995. *Draft Final Phase II RCRA Facility Investigation Report, Table 1 Solid Waste Management Units*, *Holloman Air Force Base, New Mexico, Volume I.*

Foster Wheeler Environmental Corporation. December 2002. *Draft Report for the Remedial Investigation of DP-63 – Disposal Pit 63, Holloman Air Force Base, New Mexico.*

George, S., 1992. Positive and Negative Bias Associated with the Use of EPA Method 418.1 for the Determination of Total Petroleum Hydrocarbons in Soil. Environmental Service and Engineering, Inc.

Holloman Air Force Base. 2000. *Horizons 2000 Facility Improvement Plan.*

Leahy, J.G., and Colwell, R.R., 1990. Microbial Degradation of Hydrocarbons in the Environment. Microbiological Reviews, 54: 305-315.

NationViewIBhate JV III. July 2011. *Basewide Background Study, Holloman Air Force Base, New Mexico.*

NationView, LLC. March 2012a. Final *SD-08 Long Term Monitoring Report Quarter 1, Winter 2012, Holloman Air Force Base, New Mexico*

NationView, LLC. June 2012b. Final *SD-08 Long Term Monitoring Report Quarter 2, Spring 2012, Holloman Air Force Base, New Mexico*

NationView, LLC. September 2012c. Final *SD-08 Long Term Monitoring Report Quarter 3, Summer 2012, Holloman Air Force Base, New Mexico*

NationView, LLC. December 2012d. *Final SD-08 Long Term Monitoring Report Quarter 4, Fall 2012, Holloman AFB, New Mexico*

NationView, LLC. March 2013a. *Final SD-08 Long Term Monitoring Report Quarter 5, Winter 2013, Holloman AFB, New Mexico*

NationView, LLC. May 2013b. *Final SD-08 Long Term Monitoring Report Quarter 6, Spring 2013, Holloman AFB, New Mexico*

NationView, LLC. January 2014a. *Revised Final SD-08 (Solid Waste Management Unit – 82) Long Term Groundwater Monitoring Report Quarter 7, Summer 2013, Holloman AFB, New Mexico*

NationView, LLC. February 2014b. *Final SD-08 (Solid Waste Management Unit – 82) Long Term Groundwater Monitoring Report Quarter 8, Fall 2013, Holloman AFB, New Mexico*

NationView, LLC. February 2014c. *Technical Memorandum – Temporary Well Installation, SD-08 Holloman Air Force Base, New Mexico*

New Mexico Administrative Code (NMAC) 20.6.2.3103, New Mexico Water Quality Control Commission Regulations, September 15, 2002. (http://www.nmenv.state.nm.us/NMED_Regs/gwb/ 20_6_2_NMAC.pdf).

New Mexico Environment Department. February 2004. Holloman Air Force Base, Hazardous Waste Facility Permit No. NM6572124422.

New Mexico Environment Department. November 30, 2011a. E-mail to Mr. David Scruggs, Chief of Compliance and Restoration, 49 CES/CEV, Holloman AFB, NM from Mr. David Strasser NMED Hazardous Waste Bureau, concerning the analysis of general chemistry parameters for groundwater at SD-08.

New Mexico Environment Department. December 28, 2011b. *Conditional Approval: Basewide Background Study Report, Holloman Air Force Base,* EPA ID# NM6572124422 (HWB-HAFB-09-004).

New Mexico Environment Department. January 18, 2012a. E-mail to Mr. Frank Gardner, HAFB Program Manager, Bhate from Mr. David Strasser NMED Hazardous Waste Bureau, concerning the comparison of total (unfiltered) groundwater concentrations with USEPA MCLs.

New Mexico Environment Department. June, 2012b. *Risk Assessment Guidance for Site Investigations and Remediation.*

New Mexico Environment Department. June, 2012c. Appendix 4-A: Summary of Solid Waste Management Units (Tables A and B), Holloman Air Force Base, Hazardous Waste Facility Permit No. NM6572124422.

New Mexico Environment Department. June 2014. *Approval with Modifications SD-08 (Solid Waste Management Unit – 82) Long Term Monitoring Report, Quarter 8, Fall 2013, February 2014 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-14-002.*

New Mexico Water Rights Reporting System (NMWRRS) database. June 2009. (http://nmwrrs.ose.state.nm.us/WRDispatcher?page=meterDrillerSelection).

Radian, June 1992a. *Draft Final Remedial Investigation Report, Investigation, Study and Recommendation for 29 Waste Sites, Holloman Air Force Base, New Mexico, Volume I.*

Radian, November 1992b. *Draft Final Corrective Measures Study Plan, Investigation, Study and Recommendation for 29 Waste Sites, Holloman Air Force Base, New Mexico.*

Radian, December 1993. *Draft Final Feasibility Study, Investigation, Study and Recommendation for 29 Waste Sites, Holloman Air Force Base, New Mexico.*

Radian Corporation. September 1995. *Decision Documents Installation Restoration Program, Holloman Air Force Base, New Mexico.*

TPHCWG, 1998. Total Petroleum Hydrocarbon Criteria Working Group (TPHCWG) Series Volume I Analysis of Petroleum Hydrocarbons in Environmental Media.

U.S. Army Corps of Engineers, Omaha District. December 30, 2005. *Scope of Services for the FY-06 Remedial Action Operations.* Contract Number DACA45-03-D-0023; Delivery Order Number 0021.

U.S. Army Corps of Engineers, Omaha District. March 10, 2010. *Statement of Work, Groundwater Monitoring and Sampling at Multiple Sites.* Contract Number W9128F-09-F-0055; Delivery Order Number 0003.

USEPA, 1986. *Final Draft Guidelines for Groundwater Classification under EPA Groundwater Protection Strategy.*

USEPA, 2004a. User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings.

USEPA, 2004b. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual Part E Supplemental Guidance for Dermal Risk Assessment

USEPA. May 2009. *National Primary Drinking Water Regulations.* EPA 816-F-09-004.

USEPA, 2012. Petroleum Hydrocarbons and Chlorinated Hydrocarbons Differ in Their Potential for Vapor Intrusion.

USEPA. November 2013. *USEPA Regions 3, 6, and 9 Regional Screening Levels.* (http://www.epa.gov/Region6/6pd/rcra_c/pd-n/screen.htm).

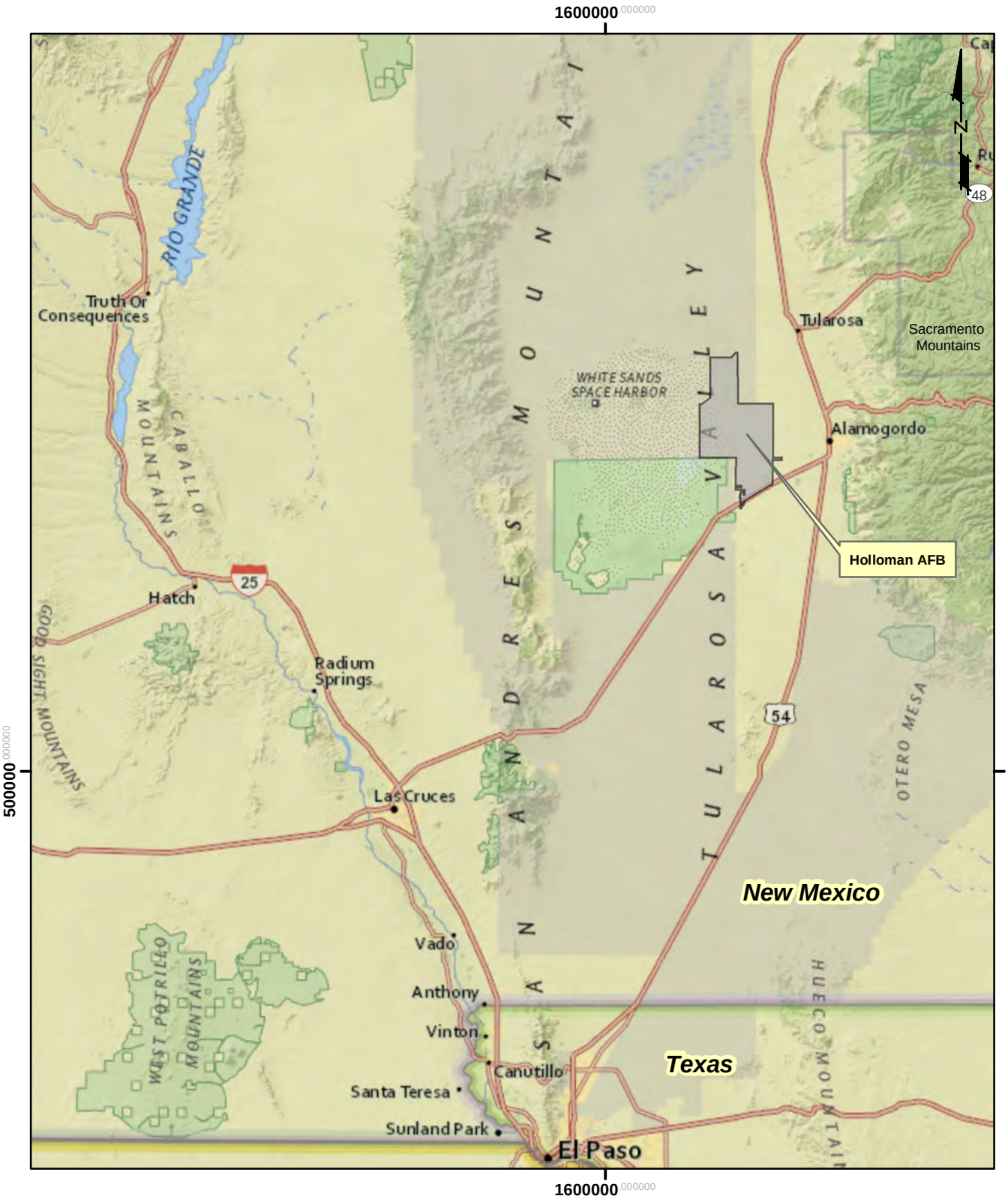
USEPA, 2013b. ProUCL Version 5.0.00 Software.

USEPA, 2013c. Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table November 2013.

U.S. Department of Agriculture (USDA). 1981. *Soil Survey of Otero Area, New Mexico: Parts of Otero, Eddy, and Chaves Counties.*

Western Regional Climate Center (WRCC). 2003. *State of New Mexico Desert Research Institute: Climate of New Mexico.* http://www.wrcc.dri.edu/narratives/NEWMEXICO.htm.

FIGURES

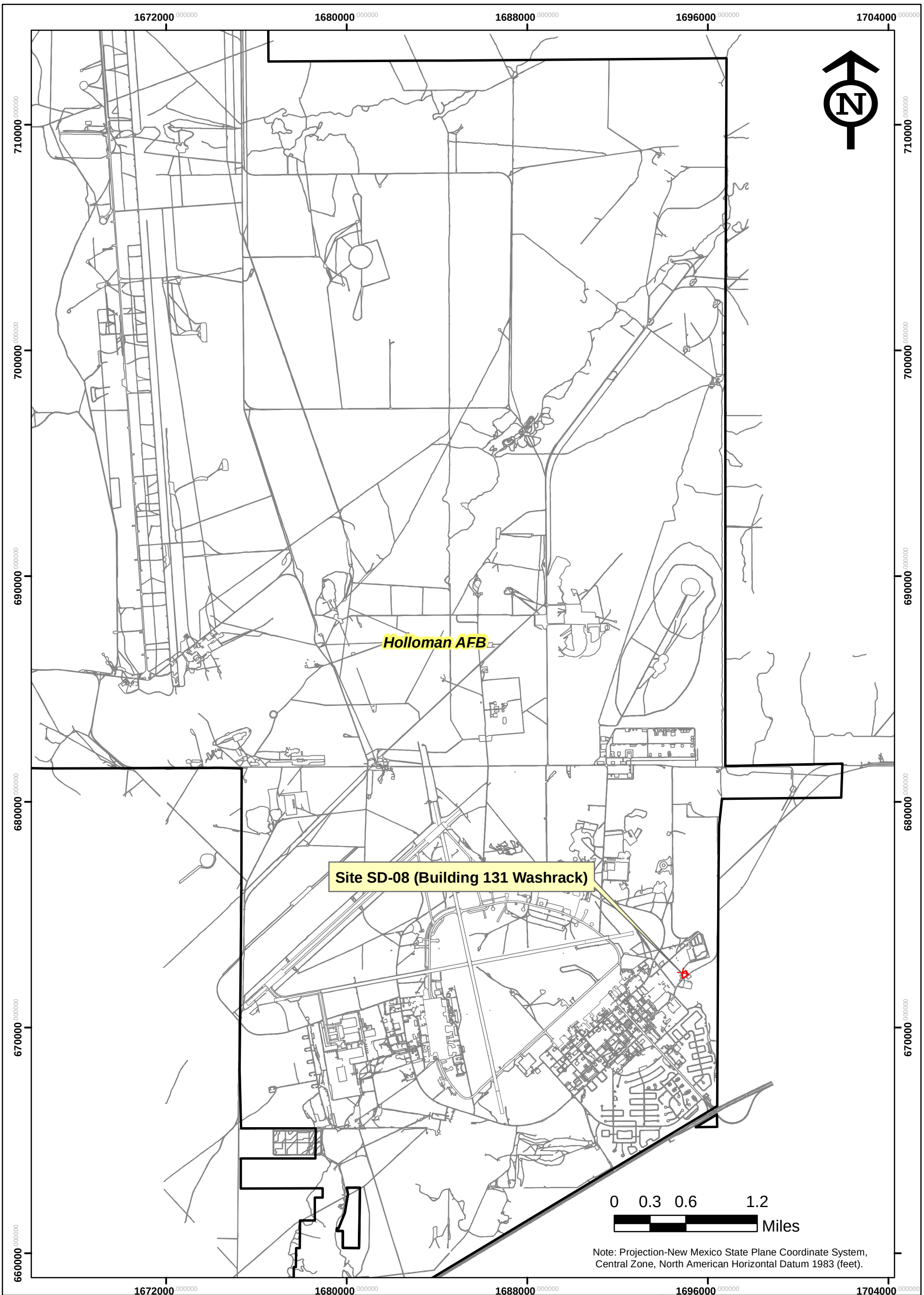


0 4 8 16 24 32 Miles

Note: Projection-New Mexico State Plane Coordinate System, Central Zone, North American Horizontal Datum 1983 (feet).

NATIONVIEW

Holloman Air Force Base, New Mexico Location Map				SD-08 RCRA Facility Investigation Report Holloman Air Force Base, New Mexico
PROJECT NO.	SCALE	DATE	DRAWN BY: cm	Figure 2-1
10-0004	1"=18 Miles	6/17/13	DRAWING NO: Figure 2-1	



NATIONVIEW

SD-08
Site Location Map

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
10-0004	1"=4000'	6/17/13	DRAWING NO: Figure 2-2

SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico

Figure 2-2

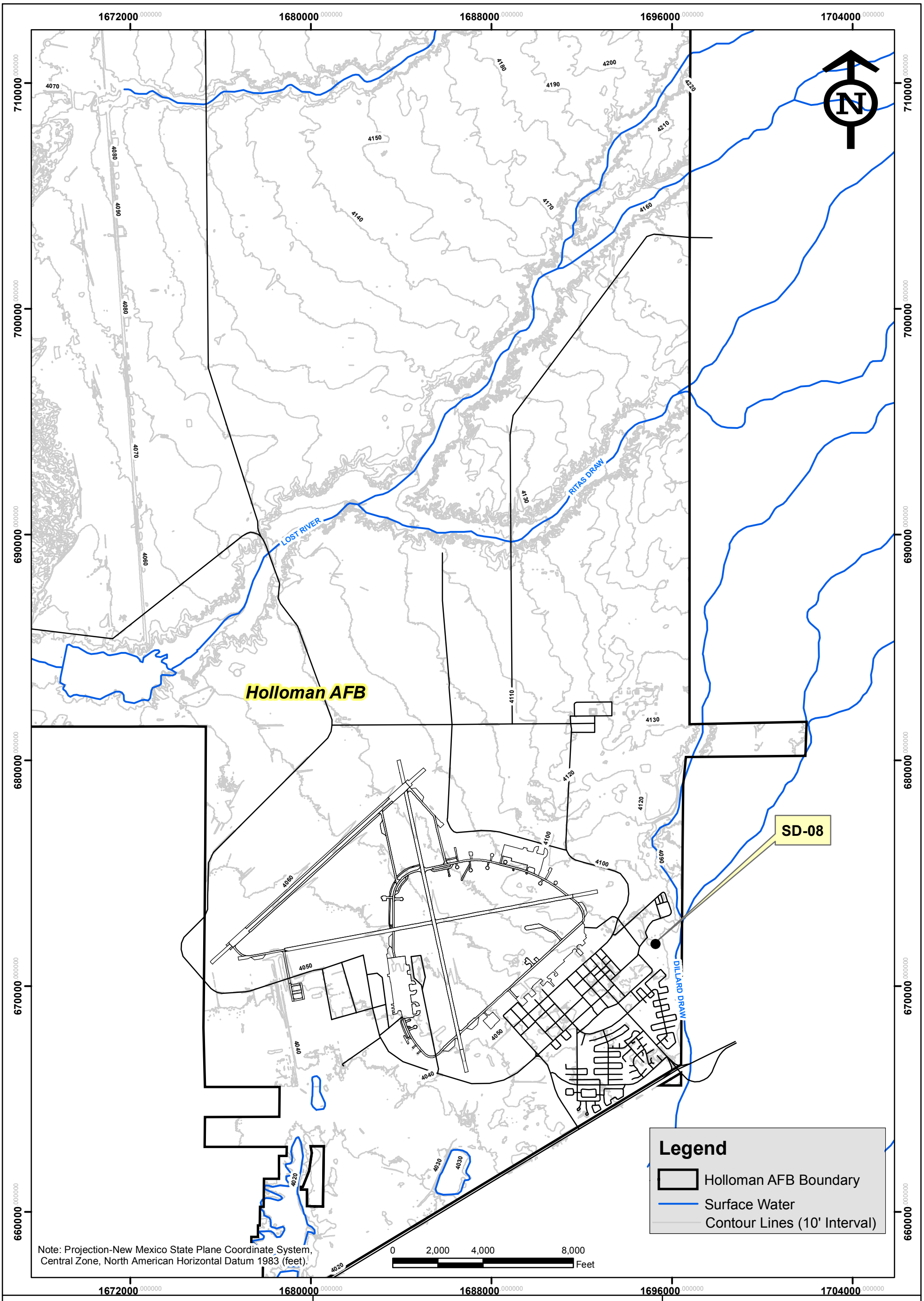
NATIONVIEW

Site SD-08 Sample Location Map
Previous Investigations

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
10-0004	1"=70'	5/6/2014	DRAWING NO: Figure 2-3

SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico

Figure 2-3



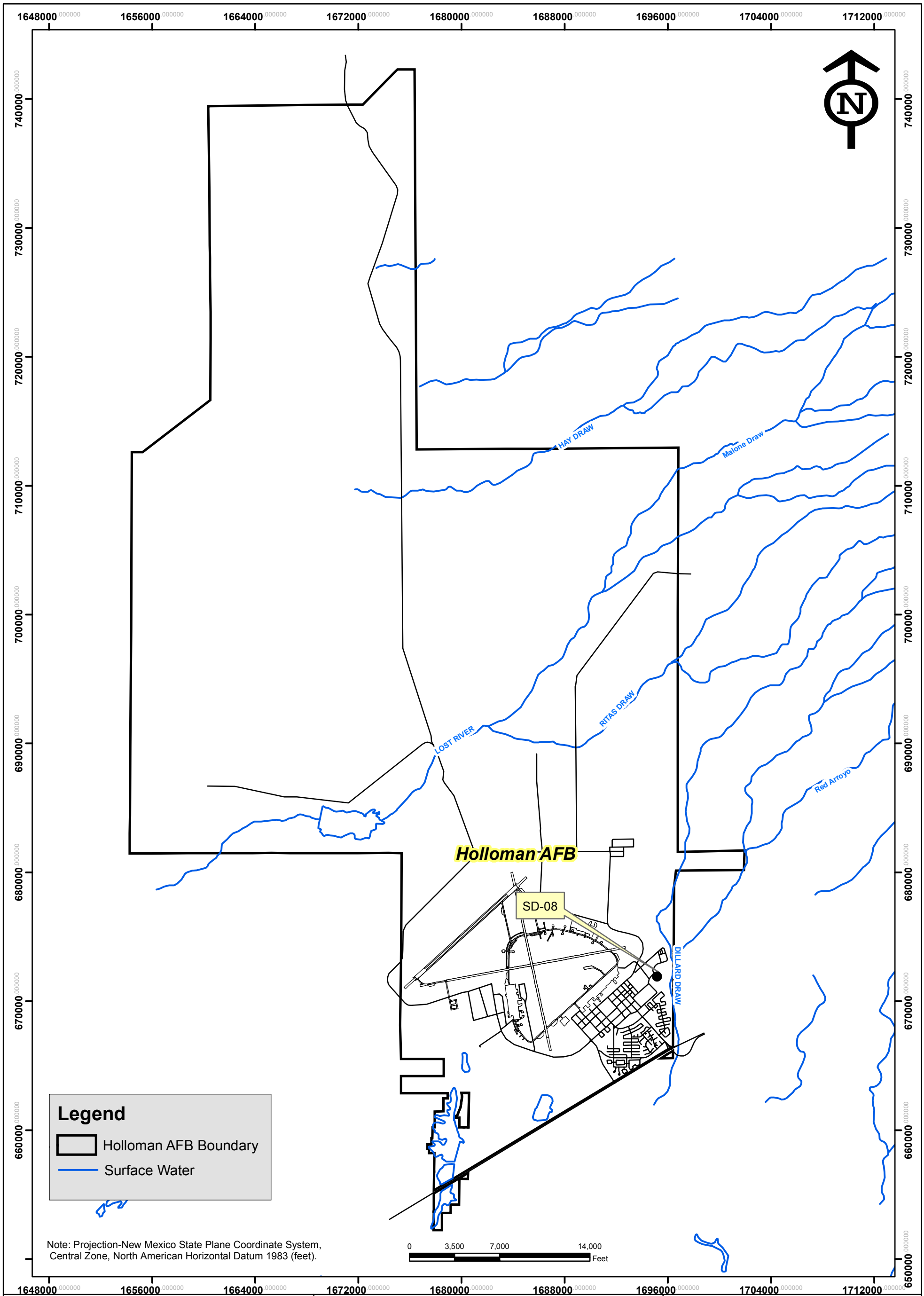
NATIONVIEW

Topographic Map
Holloman AFB, New Mexico

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
10-0004	1"=4000'	5/6/2014	DRAWING NO: Figure 3-1

SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico

Figure 3-1



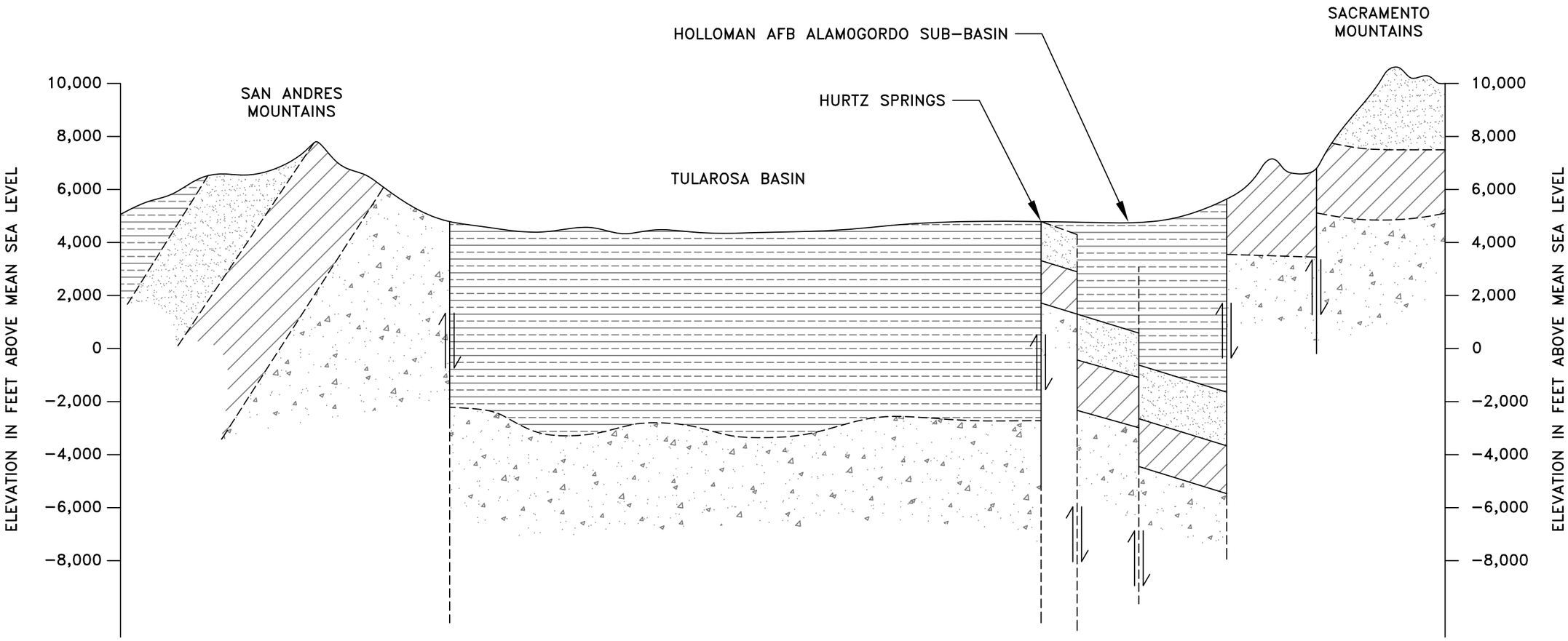
NATIONVIEW

Surface Drainages
Holloman AFB, New Mexico

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
11-0020	1"=7000'	5/6/2014	DRAWING NO: Figure 3-2

SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico

Figure 3-2



LEGEND:

- CENOZOIC ALLUVIUM AND LAKE DEPOSITS
- SEDIMENTARY ROCK OF PERMIAN AGE
- SEDIMENTARY ROCKS OF CAMBRIAN, ORDOVICIAN, SILURIAN, DEVONIAN, MISSISSIPPIAN AND PENNSYLVANIAN AGE
- INTRUSIVE ROCKS OF TERTIARY, CRETACEOUS OR PRECAMBRIAN AGE
- FAULT, ARROWS INDICATE RELATIVE MOVEMENT

0 5 10
SCALE IN MILES:

SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico

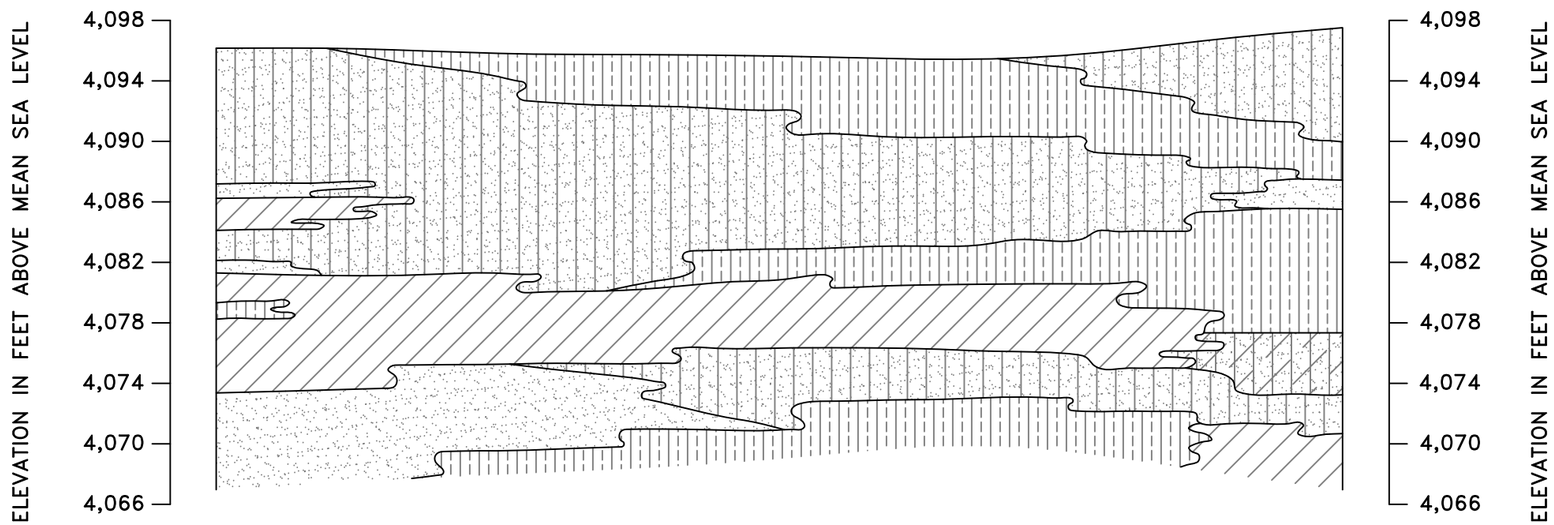
Figure 3-3

GENERALIZED GEOLOGIC CROSS SECTION OF THE TULAROSA BASIN

Source: Radian, 1992.

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
10-0004	SHOWN	5/6/14	MRM	Figure 3-3

NATIONVIEW



LEGEND:

- CL AND CH – CLAY
- ML AND MH – SILT
- SM – SILTY SAND
- SM–SC – SILTY, CLAYEY SAND
- SP – SAND

0' 100' 200'
SCALE IN FEET:

SD–08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico

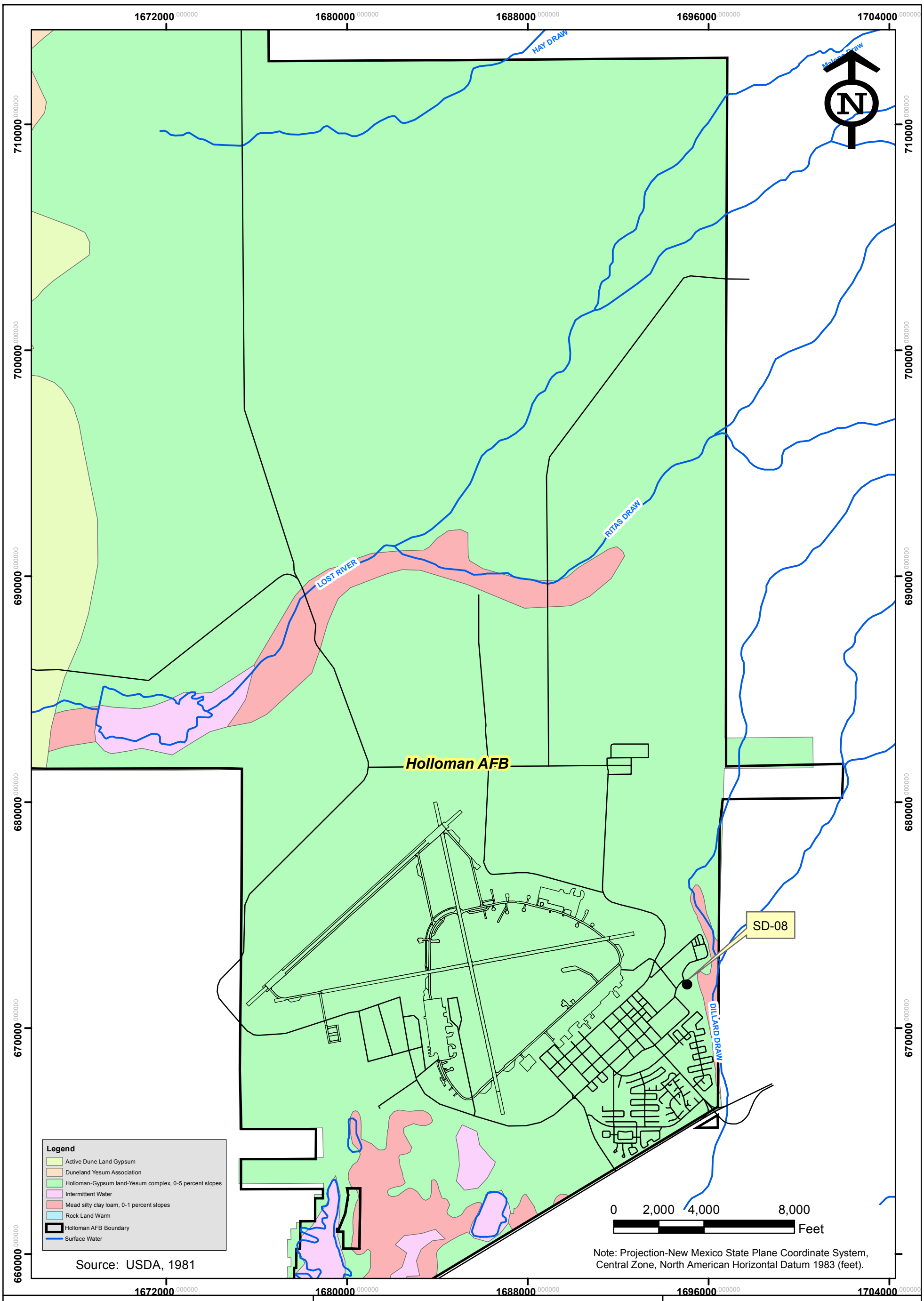
Figure 3–4

GENERALIZED NEAR–SURFACE GEOLOGIC CROSS SECTION FOR HOLLOMAN AFB

Source: Radian, 1992.

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
10–0004	SHOWN	5/6/14	MRM	Figure 3–4

NATIONVIEW



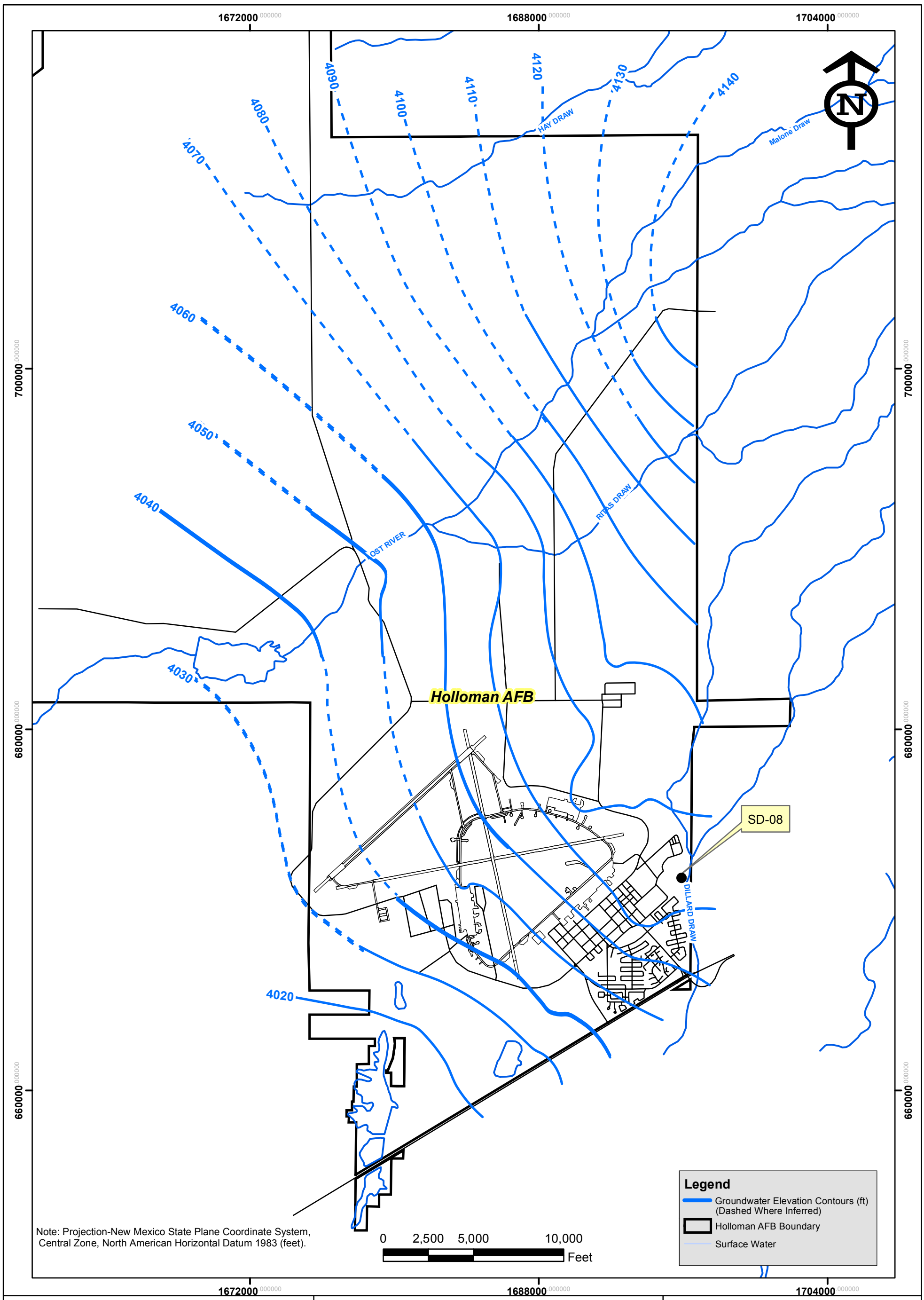
NATIONVIEW

Soil Map
Holloman AFB, New Mexico

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1"=4000'	5/6/2014	cm
			DRAWING NO: Figure 3-5

SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico

Figure 3-5



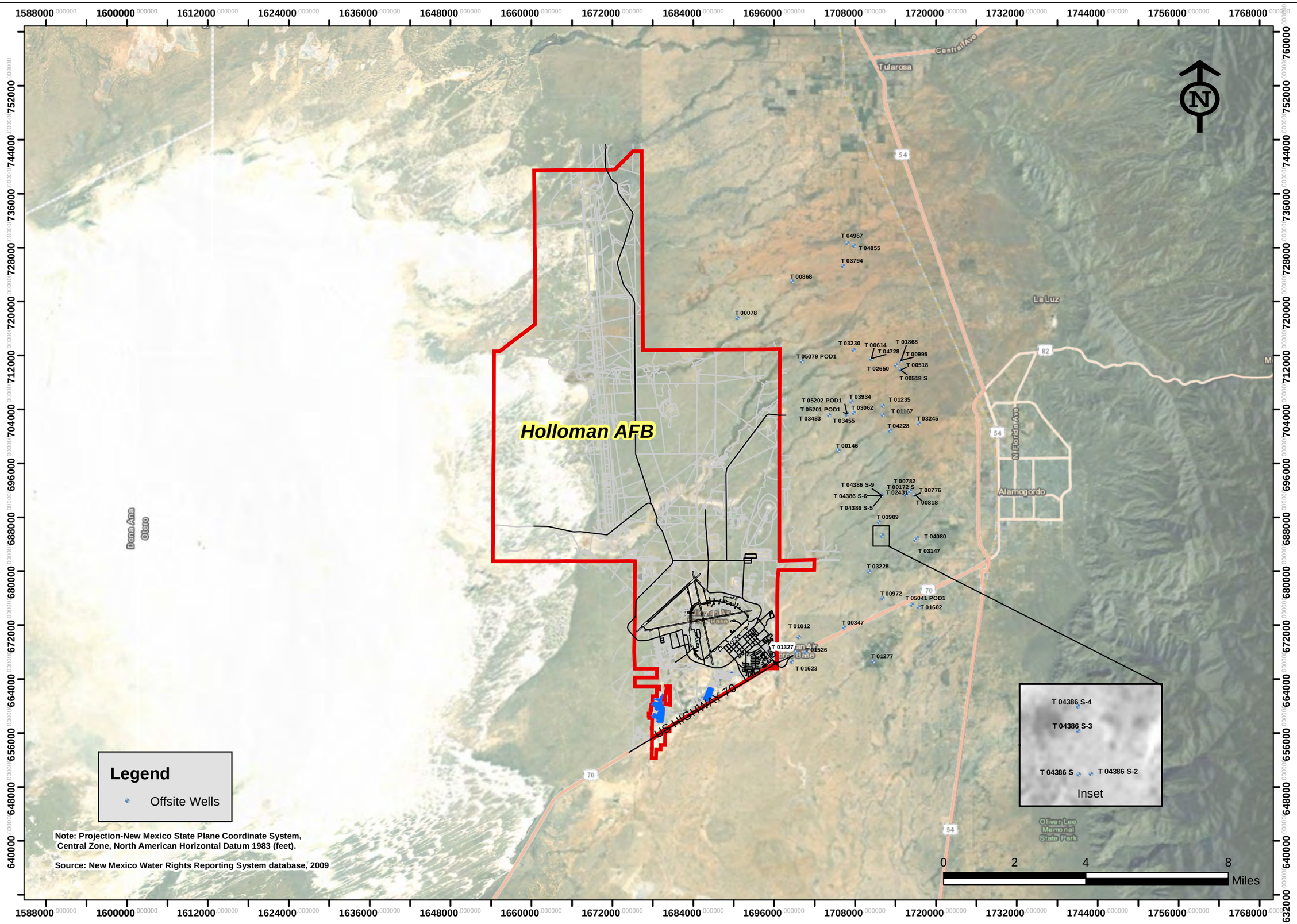
NATIONVIEW

Groundwater Contour Map
Holloman AFB, New Mexico

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1"=5000'	5/6/2014	cm
			DRAWING NO: Figure 3-6

SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico

Figure 3-6



SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico

Figure 3-7

Groundwater Wells Located Within a 4-Mile Radius of Holloman AFB

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
10-0004	Shown	6/25/2013	cm	Figure 3-7

NATIONVIEW

NATIONVIEW

SD-08 Sample Location Map
Additional Investigation (2006-2007)

PROJECT NO.	SCALE	DATE	DRAWN BY:	cm
10-0004	1"=80'	5/6/2014	DRAWING NO:	Figure 5-1

SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico

Figure 5-1

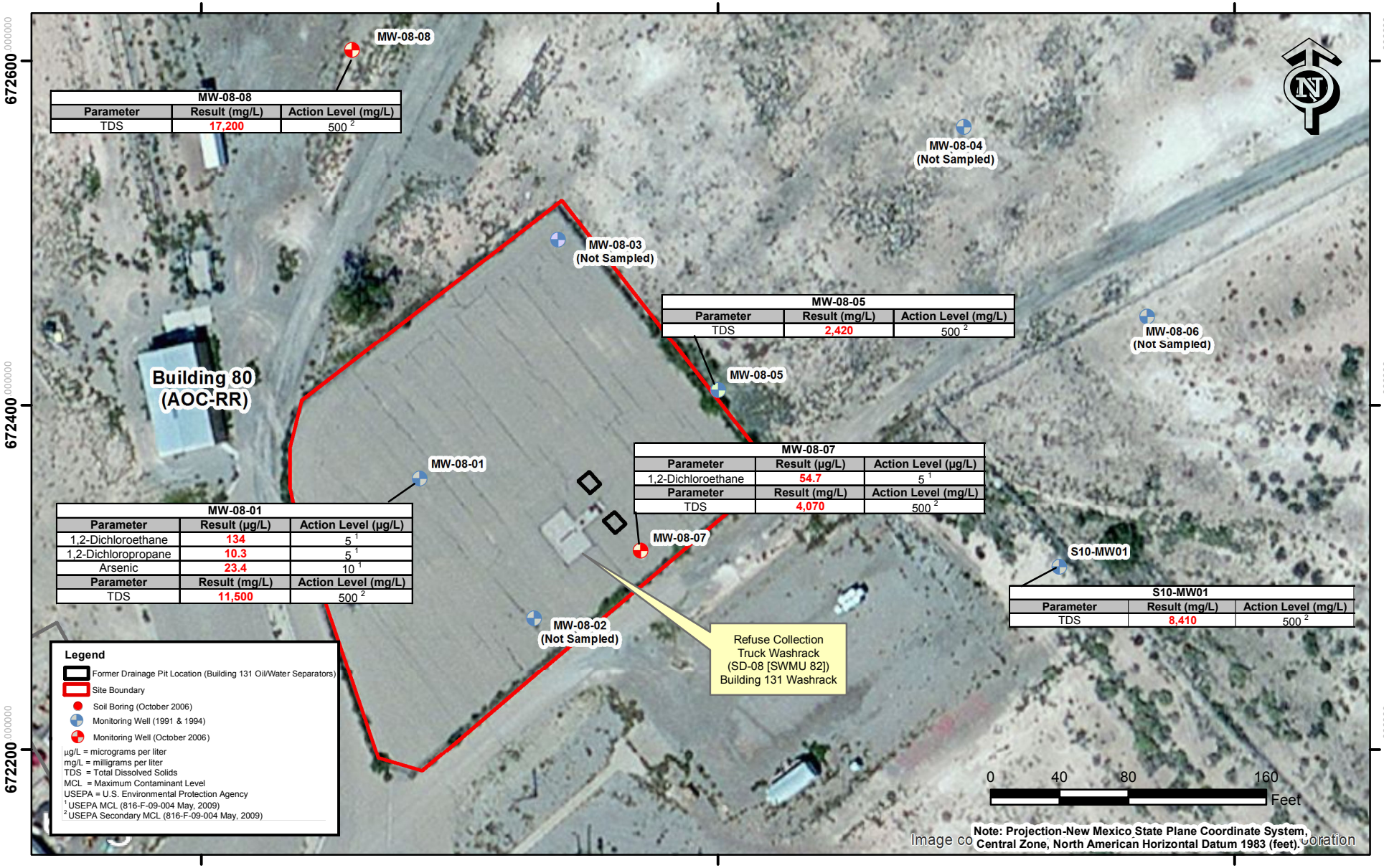
NATIONVIEW

SD-08 Monitoring Well Network

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1" = 100'	5/06/2014	dtm
			DRAWING NO: Figure 5-2

SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico

Figure 5-2



MW-08-08		
Parameter	Result (mg/L)	Action Level (mg/L)
TDS	17,200	500 [2]

MW-08-05		
Parameter	Result (mg/L)	Action Level (mg/L)
TDS	2,420	500 [2]

MW-08-07		
Parameter	Result (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	54.7	5 [1]
Parameter	Result (mg/L)	Action Level (mg/L)
TDS	4,070	500 [2]

MW-08-01		
Parameter	Result (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	134	5 [1]
1,2-Dichloropropane	10.3	5 [1]
Arsenic	23.4	10 [1]
Parameter	Result (mg/L)	Action Level (mg/L)
TDS	11,500	500 [2]

S10-MW01		
Parameter	Result (mg/L)	Action Level (mg/L)
TDS	8,410	500 [2]

NATIONVIEW

Site SD-08 Groundwater Analytical Results Above Action Levels Additional Investigation (2006-2007)

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
10-0004	1"=80'	5/6/2014	DRAWING NO: Figure 7-1

SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico

Figure 7-1

TABLES

Table 3-1
Groundwater Wells
Located within a 4-Mile Radius
of Holloman Air Force Base
Site SD-08
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Well Identification Number	Use	NAD 83 UTM (meters)		Well Depth (feet)
		Northing	Easting	
T 00078	Commercial	398468	3648755	428
T 00868	Domestic	400972	3650377	215
T 03794	Irrigation	403280	3651057	250
T 04855	Domestic	403784	3651965	235
T 04967	Domestic	403480	3652067	200
T 00518	Domestic	405819	3646323	305
T 00518 S	Domestic	405819	3646323	220
T 00614	Domestic	404503	3646838	245
T 00995	Domestic	405824	3646730	308
T 01868	Domestic	405824	3646730	280
T 02650	Domestic	405619	3646523	265
T 03230	Domestic	403699	3647252	160
T 04728	Domestic	404503	3646838	216
T 05079 POD1	Domestic	401365	3646757	406
T 01167	Livestock	404993	3644302	170
T 01235	Irrigation	404995	3644706	200
T 03062	Commercial	403678	3644412	295
T 03455	Domestic	403365	3644318	150
T 03483	Domestic	402565	3644318	140
T 03934	Commercial	403578	3644915	160
T 05201 POD1	Irrigation	403380	3644374	295
T 05202 POD1	Irrigation	403381	3644374	250
T 00146	Livestock	402960	3642700	110
T 03245	Commercial	406609	3643887	190
T 04228	Domestic	405295	3643589	180
T 04386 S-6	Commercial	404903	3640666	290
T 04386 S-9	Commercial	404895	3640673	320
T 00172 S	Irrigation	406088	3640755	125
T 00776	Irrigation	406391	3640650	120
T 00782	Domestic	406187	3640854	120
T 00818	Irrigation	406391	3640650	125
T 02431	Domestic	405987	3640654	152
T 03909	Livestock	404765	3639453	140
T 04386 S	Commercial	404886	3638830	290
T 04386 S-2	Commercial	404888	3638830	310
T 04386 S-3	Commercial	404886	3638837	300
T 04386 S-4	Commercial	404886	3638841	295
T 04386 S-5	Commercial	404903	3640661	310
T 03147	Domestic	406380	3638633	135
T 04080	Domestic	406481	3638734	170
T 03228	Domestic	404290	3637226	160
T 00347	Domestic	403131	3634704	182
T 00972	Domestic	404882	3636009	150
T 01602	Domestic	406510	3635592	135
T 05041 POD1	Domestic	406205	3635697	200
T 01012	Commercial	401072	3634316	72
T 01277	Commercial	404434	3633172	104
T 01327	Commercial	400958	3633604	90
T 01526	Commercial	401368	3633601	152
T 01623	Domestic	400743	3633202	260

Source: New Mexico Water Rights Reporting System database, 2009
Notes:
NAD - North American Datum
UTM - Universal Transverse Mercator

Table 3-2
Monitoring Well Construction Details
Site SD-08
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Well ID	Installation Date	Diameter (inches)	Elevation TOC (ft above msl)	Screened Interval (ft bgs)	Total depth (feet)	Status
MW-08-01	8/7/1991	2	4088.273	10.2 - 19.7	23.3	Active
MW-08-02	8/8/1991	2	4088.726	6.7 - 16.7	18.9	Active
MW-08-03[1]	1/13/1989	2	4087.971	9.5 - 19.5	19.8	Active
MW-08-04	11/7/1994	2	4085.640	6.1 - 16.1	17.5	Active
MW-08-05	11/8/1994	2	4086.543	6.2 - 16.2	17.6	Active
MW-08-06	11/7/1994	2	4084.648	6.1 - 16.1	17.5	Active
MW-08-07	10/27/2006	2	4085.403	6.5 - 16.5	16.75	Active
MW-08-08	10/27/2006	2	4085.072	6.5 - 16.5	16.75	Active
MW-09-01	8/11/1991	2	4085.437	7.3 - 17.3	17.6	Active
SD08-MW10	3/26/2013	2	4086.683	9.25 - 19.25	19.5	Active
SD08-MW11	3/26/2013	2	4088.027	9.5 - 19.5	19.75	Active
SD08-MW12	3/27/2013	2	4076.212	4.5 - 14.5	14.75	Active
SD08-MW13	3/27/2013	2	4074.681	4.5 - 14.5	14.75	Active
S10-MW01	11/29/1988	2	4086.882	3.5 - 18.5	18.8	Active
S10-MW02	11/29/1988	2	4088.499	3.5 - 18.5	18.8	Active
S10-MW06	1/13/1989	2	4083.500	4.5 - 19.5	19.8	Active
SWMU183-MW03	7/17/2010	2	4086.261	5.75 - 15.75	16	Active

Notes:

[1] Monitoring well MW-08-03 is Site LF-10 monitoring well S10-MW7

ft bgs - Feet below ground surface

ft below TOC - Feet below Top of Casing

ft above msl = feet above mean sea level

Table 7-1
Soil Analytical Data (October, 2006)
Site SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico
NationView Project No.: 10-0004

Client Sample ID:	**Soil Screening Levels**	**Basewide Background**	SD-08-SB21-2		SD-08-SB21-2a		SD-08-SB21-6		SD-08-SB22-2		SD-08-SB22-7		SD-08-SB23-4		SD-08-SB23-7	
Lab Sample ID:	**NMED Residential [1]**	**NMED Approved Background Levels [2]**	F44808-1		F44808-2		F44808-3		F44814-1		F44814-2		F44808-4		F44808-5	
Date Sampled:			10/27/2006		10/27/2006		10/27/2006		10/27/2006		10/27/2006		10/27/2006		10/27/2006	
Analyte			**Result [3]**	**Q**	**Result [3]**	**Q**	**Result [3]**	**Q**	**Result [3]**	**Q**	**Result [3]**	**Q**	**Result [3]**	**Q**	**Result [3]**	**Q**
Volatile Organic Compounds	**mg/kg**	**mg/kg**	**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**	
All VOCs	NV	NV	ND		ND		ND		ND		ND		ND		ND	
Semi-Volatile Organic Compounds	**mg/kg**	**mg/kg**	**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**	
Diethyl phthalate	48,900	NV	129	J	98	U	110	U	930		99	U	150	J	110	U
Pesticides	**mg/kg**	**mg/kg**	**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**	
4,4'-DDE	14.3	NV	0.77	U	0.77	U	0.88	U	1.1	J	0.80	U	0.87	U	0.86	U
RCRA Metals Analysis	**mg/kg**	**mg/kg**	**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**	
Arsenic	3.9	3.7	2.4		2.4		1.6		3.0		3.1		3.0		0.99	J
Barium	15,600	169.3	59.9		63.7		79.5		114	J	87.2	J	75.9		60.1	
Cadmium	70.3	0.3	0.031	J	0.038	J	0.057	J	0.13	J	0.024	J	0.080	J	0.027	J
Chromium	117,000	25	5.5		5.5		4.9		14.3		11.9		5.2		3.5	
Lead	400	10.9	2.8	J	2.9	J	2.2	J	5.3	U	4.2	U	2.5	J	1.8	J
Mercury	15.6	10.8	0.0078	U	0.013	J	0.0079	U	0.0092	J	0.021	J	0.0075	U	0.0078	U
General Chemistry			**%**		**%**		**%**		**%**		**%**		**%**		**%**	
Solids, Percent	NV [4]	NV	85.1		86.6		75.6		74.3		82.1		75.8		77.3	

Notes:
NMED = New Mexico Environment Department
VOC = Volatile Organic Compound
RCRA = Resource Conservation and Recovery Act
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Laboratory Qualifier
ND = Not detected (All VOCs)
J = Indicates an estimated value
% = percent
Client Sample Nomenclature
SD-08 = Building 131 Washrack
SB = Soil Boring Sample
a = Sample suffix denoting a duplicate sample
Final digit(s) = Ending depth of the sample interval (feet below ground surface)

[1] Table A-1, NMED Soil Screening Levels. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012).
[2] Table 1, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] No Value established for NMED Residential SSL (June, 2012) and USEPA RSL (May, 2013)
Bold value indicates analytes above NMED SSLs (June, 2012)
Indicates analytical results above the NMED Residential SSL, but below the NMED Approved Background Level
Indicates analytical results above the NMED Approved Background Level, but below the NMED Residential SSL

Table 7-2
Soil Geotechnical Parameters (October, 2006)
Site SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico
NationView Project No.: 10-0004

Sample ID	**Method**	**Unit**	**SD-08-SB24-3**	**SD-08-SB24-8**	**Average**
Depth (ft bgs)			**1-3**	**6-8**	
USCS			**SM**	**SP**	
Date sampled			**10/27/2006**	**10/27/2006**	
Parameter					
Bulk Density (Dry Basis)	ASTM D2937-94 M	g/mL	1.3	0.81	1.055
Fractional Organic Carbon	ASTM D2974-87	%	3.9	3.4	3.650
Moisture Content (Solids, Percent)	USEPA 160.3	%	82.9	86.9	84.900
Specific Gravity	ASTM 1429		1.7	1.4	1.550

Notes:
ASTM - American Society for Testing and Materials
USEPA - United States Environmental Protection Agency
ft bgs - Feet below ground surface
g/mL - grams per milliliter
% - percent
USCS - Unified Soil Classification System
SM - Silty Sand
SP - Sand

Table 7-3
Groundwater Analytical Data (November/December 2006)
Site SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico
NationView Project No.: 10-0004

Client Sample ID:	**Groundwater Screening Levels**		**Basewide Background**		S10-MW01		SD-08-MW08-01		SD-08-MW08-05		SD08-MW08-07		SD08-MW08-08		SD08-MW08-08D	
Lab Sample ID:	**NMWQCC [1]**	**USEPA MCL [2]**	**NMED Approved Background Levels [3]**	**Dissolved Metals in Groundwater UTL [4]**	F45254-4		F45254-1		F45254-2		F45658-1		F45339-1		F45339-2	
Date Sampled:					11/13/2006		11/13/2006		11/13/2006		12/1/2006		11/16/2006		11/16/2006	
Analyte					**Result [5]**	**Q**	**Result [5]**	**Q**	**Result [5]**	**Q**	**Result [5]**	**Q**	**Result [5]**	**Q**	**Result [5]**	**Q**
Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**	
Acetone	NV	NV	NV	NV	9.5	J	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzene	10	5	NV	NV	0.50	U	0.57	J	0.50	U	0.50	U	0.50	U	0.50	U
tert-Butylbenzene	NV	NV	NV	NV	0.50	U	0.57	J	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	100	NV	NV	NV	0.50	U	0.50	U	0.50	U	0.50	U	0.51	J	0.50	U
1,2-Dichloroethane	10	5	NV	NV	3.0		**134 [a]**		0.50	U	**54.7 [b]**		0.50	U	0.50	U
1,2-Dichloropropane	NV	5	NV	NV	0.50	U	**10.3**		0.50	U	1.6[b]		0.50	U	0.50	U
o-Dichlorobenzene	NV	600	NV	NV	0.50	U	0.52	J	0.50	U	0.50	U	0.50	U	0.50	U
Methyl ethyl ketone	NV	NV	NV	NV	2.5	U	2.5	U	2.8	J	2.5	U	2.5	U	2.5	U
1,1,2-Trichloroethane	10	5	NV	NV	0.50	U	3.9		0.50	U	0.50	U	0.50	U	0.50	U
Semi-Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**Q**	**µg/L**	**Q**	**µg/L**	**Q**	**µg/L**	**Q**	**µg/L**	**Q**	**µg/L**	**Q**
Diethyl phthalate	NV	NV	NV	NV	2.0	U	2.0	U	2.0	U	11.1		2.0	U	2.0	U
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	2.5	U	2.5	U	3.6	J	2.5	U	2.5	U	2.5	U
Pesticides	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**Q**	**µg/L**	**Q**	**µg/L**	**Q**	**µg/L**	**Q**	**µg/L**	**Q**	**µg/L**	**Q**
alpha-Chlordane	NV	2	NV	NV	0.015	U	0.014	U	0.015	U	0.016	J	0.015	U	0.015	U
gamma-Chlordane	NV	2	NV	NV	0.015	U	0.014	U	0.015	U	0.030	J	0.015	U	0.015	U
RCRA Metals Analysis	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**Q**	**µg/L**	**Q**	**µg/L**	**Q**	**µg/L**	**Q**	**µg/L**	**Q**	**µg/L**	**Q**
Arsenic	100	10	10	28.53	7.6	J	**23.4**		4.5	J	4.8	J	7.4	J	6.0	J
Barium	1,000	2,000	30.2	30.13	20.8	J	15.8	J	48.3	J	28.0	J	41.1	J	46.0	J
Cadmium	10	5	2.5	2.41	1.6	J	0.30	U	0.30	U	1.0	U	0.30	U	0.43	J
Chromium	50	100	2.5	2.5	3.8	J	0.60	U	0.60	U	0.70	J	0.68	J	0.60	U
Lead	50	15	9	9	1.7	U	1.7	U	2.9	J	1.8	J	1.7	U	1.7	U
Mercury	2	2	0.2	NV	0.22	J	0.21	J	0.15	J	0.10	U	0.10	U	0.10	U
Silver	50	NV	10	NV	0.90	U	0.90	U	0.90	U	1.1	J	0.90	U	0.90	U

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environmental Department
UTL = Upper Tolerance Limit
RCRA = Resource Conservation and Recovery Act
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Laboratory Qualifier

Qualifiers

U = Not detected
J = Indicates an estimated value

Sample Identification Nomenclature

MW = Monitoring Well Sample
08 = Site identifier for SD-08
D = Sample suffix denoting a duplicate sample

[1] Standards for Groundwater, if 10,000 mg/L Total Dissolved Solids (TDS) Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[a] Result is from Run #2. Sample re-analyzed beyond hold time; reported results are considered minimum values.
[b] Result is from Run #2.

Bold value indicates analytes above the New Mexico Groundwater Quality Standards or the USEPA MCLs

Indicates analytical results above the NMED Approved Background Level, but below the New Mexico Groundwater Quality Standard and USEPA MCL

Table 7-4
Total Dissolved Solids Analytical Data (December 2006/January 2007)
Site SD-08
RCRA Facility Investigation Report
Holloman Air Force Base, New Mexico
NationView Project No.: 10-0004

Client Sample ID:	**Groundwater Screening Levels**				S10-MW-01		SD08-MW-01		SD08-MW08-05		SD08-MW08-08		SD08-MW08-08D		SD08-MW08-07	
Lab Sample ID:	**NMWQCC [1]**	**USEPA MCL [2]**	**NMED Approved Background Levels [3]**	**Total Metals in Groundwater UTL [4]**	F46825-2		F46838-1		F46213-1		F46825-2		NA		F45658-1R	
Date Sampled:					1/25/2007		1/26/2007		12/17/2006		1/25/2007		NA		12/1/2006	
Analyte					**Result [5]**	**Q**	**Result [5]**	**Q**	**Result [5]**	**Q**	**Result [5]**	**Q**	**Result [5]**	**Q**	**Result [5]**	**Q**
Filterable Residue	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**		**mg/L**		**mg/L**		**mg/L**		**mg/L**		**mg/L**	
Total Dissolved Solids	1,000	500 [5]	NV	65,956.58	**8,410**		**11,500**		**2,420**		**17,200**		NA		**4,070 [a]**	J

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environmental Department
UTL = Upper Tolerance Limit
mg/L = milligrams per liter
NV = No Value
NA = Not Analyzed
Q = Laboratory Qualifier

Qualifiers
J = Indicates an estimated value

Sample Identification Nomenclature
MW = Monitoring Well Sample
08 = Site identifier for SD-08
D = Sample suffix denoting a duplicate sample

[1] Standards for Groundwater, if 10,000 mg/L Total Dissolved Solids (TDS) Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[a] Analyzed outside of holding time.
Bold value indicates analytes above the New Mexico Groundwater Quality Standards or the USEPA MCLs
Indicates analytical results above the NMED Approved Background Level, but below the New Mexico Groundwater Quality Standard and USEPA MCL

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SB-08-01		SB-08-02		SB-08-03		SB-08-04		SB-08-05		SB-08-06		SB-08-07	SB-08-08
Depth (ft bgs)	0 - 2	6 - 8	0 - 2	5 - 7	0 - 2	10 - 12	0 - 2	2 - 4	2 - 4	6 - 8	2.5 - 4.5	7.5 - 9.5	0 - 2	0 - 2
Date	1991		1991		1991		1991		1991		1991		1993	1993
Aluminum														
Arsenic	<1.3	<0.75	<3.3	1.6	<1.3	<0.76	1.8	1.5	2.1	1.1	3	1.1		
Barium														
Beryllium	0.39	<0.45	0.36	0.43	0.34	<0.4	0.44	<0.38	0.45	<0.42	0.71	<0.40		
Cadmium	0.92	<1.1	1.8	<0.37	<0.78	<1.0	<0.77	<0.95	<0.80	<1.0	0.92	<1.0	ND	
Calcium														
Chromium	13	6	17	11	8.9	2.2	15	8.2	9.7	4	7.9	6.4		
Cobalt														
Copper	51	<4.5	37	5.8	10	<4.0	20	7	3.2	<4.2	5.2	4.2		
Iron														
Lead	50	1.1	370	2.3	19	0.3	8.1	18	2	0.75	1	1.3	9.22	
Magnesium														
Manganese														
Mercury	0.49	<0.06	2.2	<0.053	0.11	<0.064	0.8	<0.053	<0.053	<0.06	<0.056	<0.06	ND	
Nickel	10	<4.5	9.3	6.1	6.8	<4.0	14	7.1	7	<4.2	6.8	4.9		
Potassium														
Sodium														
Vanadium														
Zinc	180	12	620	21	48	6.3	50	30	23	9.6	16	11		
TRPH	87.4	24.6	1,320	<11.5	1,740	<13.61	9,950	35.8	191	16.4	<12.3	<13.6		
4,4-DDD	0.11	<0.0006	4	0.001	0.028	<0.00079	0.23	<0.00061	0.00011 J	<0.00068	0.0032	0.004	0.0564	0.0094
4,4-DDE	0.41	<0.0006	5.6	0.01	0.086	<0.00079	0.53	0.0033	0.001	<0.00068	0.000055 J	0.00076	0.0521	0.0081
4,4-DDT	0.4	<0.0012	9.3	0.012	0.026	<0.0016	0.5	0.001 J	0.00034 J	<0.0014	0.0013	0.002	0.0467	0.0056
Aldrin	<0.0056	0.00049 J	0.041	0.00049 J	<0.0056	0.00045 J	0.005 J	<0.00061	<0.00061	<0.00068	<0.00061	0.0017		
Chlordane	0.95	<0.003	4	0.02	0.23	<0.0039	0.73	<0.0031	<0.003	<0.0034	0.017	0.032	0.0895 B	0.0859
Endosulfan II	0.0025 J	<0.0018	<0.017	<0.0017	<0.017	<0.0024	<0.016	<0.0018	<0.0018	<0.0021	<0.0018	<0.0019		
Endosulfan sulfate	<0.028	0.0011 J	<0.028	0.00027 J	<0.028	0.00064 J	0.00068 J	<0.0031	<0.003	<0.0034	0.0023 JB	<0.0031		
Heptachlor	0.0063	0.00031 J	0.056	0.0009	<0.0056	0.00087	0.012	0.0003 J	0.00039 J	<0.00068	<0.00061	<0.00063	0.0041	0.0033
Heptachlor epoxide	0.011	0.0003 J	0.074	0.0044	<0.0056	<0.00079	0.012	<0.00061	<0.00061	<0.00068	<0.00061	<0.00063		
delta-BHC	0.016	0.0016	0.021	0.0016	0.015	0.0021	<0.0055	0.0018	<0.00061	<0.00068	0.0018	0.0017		
gamma-BHC	<0.0056	0.00061	<0.0056	<0.00058	<0.0056	<0.00079	<0.0055	<0.00061	<0.00061	<0.00068	<0.00061	<0.00063		

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SB-08-01		SB-08-02		SB-08-03		SB-08-04		SB-08-05		SB-08-06		SB-08-07	SB-08-08
Depth (ft bgs)	**0 - 2**	**6 - 8**	**0 - 2**	**5 - 7**	**0 - 2**	**10 - 12**	**0 - 2**	**2 - 4**	**2 - 4**	**6 - 8**	**2.5 - 4.5**	**7.5 - 9.5**	**0 - 2**	**0 - 2**
Date	**1991**		**1991**		**1991**		**1991**		**1991**		**1991**		**1993**	**1993**
1,1-Dichloroethene	<0.11	<0.12	<0.11	<0.12	<0.11	0.023 J	<0.11	<0.12	<0.12	<0.13	<0.12	<0.13		
Benzene	<0.11	<0.12	<0.11	<0.12	<0.11	<0.16	0.0026 J	<0.12	<0.12	<0.13	<0.12	<0.13		
Chlorobenzene	0.04 J	0.0028 J	0.015 J	<0.12	0.0056 J	<0.16	<0.11	<0.12	<0.12	<0.13	<0.12	<0.13		
Ethylbenzene	<0.11	<0.12	<0.11	<0.12	<0.11	<0.16	0.0026 J	<0.12	<0.12	<0.13	<0.12	<0.13		
Methylene chloride	0.15 B	0.051 JB	0.41 B	0.38 B	0.15 B	0.47 B	0.59 B	0.32 B	<0.12	<0.13	0.17 B	0.57 B		
Toluene	0.0057 J	<0.12	0.0074 J	0.0055 J	0.006 J	0.0071 J	<0.11	<0.12	<0.12	<0.13	<0.12	<0.13		
Diethyl phthalate														

Notes:
All units are milligrams per kilogram (mg/kg)
ft bgs = Feet below ground surface
B = Analyte detected in laboratory blank analysis
J = Detected below the detection limit, an estimated value is shown
P = Results of dual-column GC differ by < 25 %
ND = Not detected, but detection limit not known
Blank = Sample not analyzed or data not reported

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SB-08-09	SB-08-10		SB-08-11		SB-08-12		SB-08-13			SB-08-14		SB-08-15	
Depth (ft bgs)	0 - 2	0 - 2	2 - 4	0 - 2	2 - 4	0 - 2	2 - 4	0 - 2	2 - 4	4 - 6	2 - 4	4 - 6	0 - 2	2 - 4
Date	1993	1993	1993	1993		1993		1993			1993		1993	
Aluminum														
Arsenic														
Barium														
Beryllium														
Cadmium		3.71		ND			ND		ND		ND			
Calcium														
Chromium														
Cobalt														
Copper														
Iron														
Lead		69.9		10.6			2.8		9.11		7.25			
Magnesium														
Manganese														
Mercury		0.297		0.068			ND		ND		ND			
Nickel														
Potassium														
Sodium														
Vanadium														
Zinc														
TRPH														
4,4-DDD	0.0034	0.116	0.0015	0.021	ND	0.065 P	ND	0.492	0.0018 P	0.0049	ND	0.001	0.0017	0.0019
4,4-DDE	0.009	0.0884	0.0014	0.0233	ND	1.85	0.012	2.5	0.0018	0.0121	0.0029	0.0059	0.0061	0.004
4,4-DDT	0.0083	0.0825	0.0026	0.0206	ND	2.74	0.0079	4.21	0.0156	0.0184	0.0037	0.006	0.0035	0.004
Aldrin														
Chlordane	0.0036	0.263 B	0.0029 B	0.0577 B	0.238	0.0511 B	ND	0.386	0.0234	0.0018	0.0012	0.0029	0.0034	0.0022
Endosulfan II														
Endosulfan sulfate														
Heptachlor	ND	0.0089 P	ND	0.493	0.343	ND	ND	0.0078	0.0025	ND	ND	ND	ND	ND
Heptachlor epoxide														
delta-BHC														
gamma-BHC														

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SB-08-09	SB-08-10		SB-08-11		SB-08-12		SB-08-13			SB-08-14		SB-08-15	
Depth (ft bgs)	0 - 2	0 - 2	2 - 4	0 - 2	2 - 4	0 - 2	2 - 4	0 - 2	2 - 4	4 - 6	2 - 4	4 - 6	0 - 2	2 - 4
Date	1993	1993	1993	1993		1993		1993			1993		1993	
1,1-Dichloroethene														
Benzene														
Chlorobenzene														
Ethylbenzene														
Methylene chloride														
Toluene														
Diethyl phthalate														

Notes:
All units are milligrams per kilogram (mg/kg)
ft bgs = Feet below ground surface
B = Analyte detected in laboratory blank analysis
J = Detected below the detection limit, an estimated value is shown
P = Results of dual-column GC differ by < 25 %
ND = Not detected, but detection limit not known
Blank = Sample not analyzed or data not reported

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SB-08-16	SB-08-17		SB-08-18	SB-08-19		SB-08-20		SD-08-SB21	SD-08-SB21 Dup	SD-08-SB21	SD-08-SB22	
Depth (ft bgs)	0 - 2	0 - 2	2 - 4	0 - 2	0 - 2	2 - 4	0 - 2	2 - 4	2	2	6	2	7
Date	1993	1993		1993	1993		1993		Oct-06			Oct-06	
Aluminum													
Arsenic									2.4	2.4	1.6	3.0	3.1
Barium									59.9	63.7	79.5	114.0	87.2
Beryllium													
Cadmium		ND			ND				0.031 J	0.038 J	0.057 J	0.13 J	0.024 J
Calcium													
Chromium									5.5	5.5	4.9	14.3	11.9
Cobalt													
Copper													
Iron													
Lead		7.44			0.726				2.8 J	2.9 J	2.2 J	5.3 J	4.2 J
Magnesium													
Manganese													
Mercury		ND			ND				<0.0078	0.013 J	<0.0079	0.0092 J	0.021 J
Nickel													
Potassium													
Sodium													
Vanadium													
Zinc													
TRPH													
4,4-DDD	0.0015	ND	ND	0.0912	0.0013	ND	ND	ND	<0.00077	<0.00077	<0.00088	<0.00089	<0.0008
4,4-DDE	0.0102	0.106	0.0089	0.696	0.0012	ND	0.0078	ND	<0.00077	<0.00077	<0.00088	0.0011 J	<0.0008
4,4-DDT	0.0081	0.0296	0.0044	0.707	0.0034	ND	0.01	ND	<0.0012	<0.0012	<0.0013	<0.0013	<0.0012
Aldrin									<0.00077	<0.00077	<0.00088	<0.00089	<0.0008
Chlordane	ND	ND	ND	0.0216 B	0.0028	ND	ND	ND					
Endosulfan II									<0.00077	<0.00077	<0.00088	<0.00089	<0.0008
Endosulfan sulfate									<0.00077	<0.00077	<0.00088	<0.00089	<0.0008
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND	<0.00077	<0.00077	<0.00088	<0.00089	<0.0008
Heptachlor epoxide									<0.00077	<0.00077	<0.00088	<0.00089	<0.0008
delta-BHC									<0.00077	<0.00077	<0.00088	<0.00089	<0.0008
gamma-BHC									<0.00077	<0.00077	<0.00088	<0.00089	<0.0008

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SB-08-16	SB-08-17		SB-08-18	SB-08-19		SB-08-20		SD-08-SB21	SD-08-SB21 Dup	SD-08-SB21	SD-08-SB22	
Depth (ft bgs)	0 - 2	0 - 2	2 - 4	0 - 2	0 - 2	2 - 4	0 - 2	2 - 4	2	2	6	2	7
Date	1993	1993		1993	1993		1993		Oct-06			Oct-06	
1,1-Dichloroethene									<0.0019	<0.0019	<0.0024	<0.0028	<0.0022
Benzene									<0.0019	<0.0019	<0.0024	<0.0028	<0.0022
Chlorobenzene									<0.0019	<0.0019	<0.0024	<0.0028	<0.0022
Ethylbenzene									<0.0019	<0.0019	<0.0024	<0.0028	<0.0022
Methylene chloride									<0.0047	<0.0047	<0.0054	<0.007	<0.0054
Toluene									<0.0019	<0.0019	<0.0024	<0.0028	<0.0022
Diethyl phthalate									0.129 J	<0.098	<0.11	0.93	<0.099

Notes:
All units are milligrams per kilogram (mg/kg)
ft bgs = Feet below ground surface
B = Analyte detected in laboratory blank analysis
J = Detected below the detection limit, an estimated value is shown
P = Results of dual-column GC differ by < 25 %
ND = Not detected, but detection limit not known
Blank = Sample not analyzed or data not reported

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SD-08-SB23		SD08-MW10-SB-05'	SD08-MW10-SB-09'	SD08-MW11-SB-05'	SD08-MW11-SB-09'	SD08-MW11-SB-09'A
Depth (ft bgs)	**4**	**7**	**5**	**9**	**5**	**9**	**9**
Date	**Oct-06**		**3/26/2013**	**3/26/2013**	**3/26/2013**	**3/26/2013**	**3/26/2013**
Aluminum			5560	3980	1990	7010	4000
Arsenic	3.0	0.99 J	1.9	1.4	0.63	1.6	2.1
Barium	75.9	60.1	47.4	45.1	27.7	66.8	54.1
Beryllium			0.22J	0.14J	0.094J	0.56	0.37
Cadmium	0.08 J	0.027 J	<0.93	<1.8	<1.7	<1.2	<0.9
Calcium			94800	123000	143000	152000	135000
Chromium	5.2	3.5	6	4.3J	2.5J	10.7	7.4
Cobalt			1.6J	1.2J	0.87J	3.4	2.5
Copper			3.7	2.4	1.1	4.3	3.6
Iron			4170	3060	1820	6110	4490
Lead	2.5 J	1.8 J	4.4J	3.5J	4J	8.9	7.7
Magnesium			3030	1940	1400	10300	7530
Manganese			68	44.3	24.9	125	99.9
Mercury	<0.0075	<0.0078	<0.044	<0.046	<0.047	<0.049	<0.048
Nickel			3.7	2.7	1.9	9.1	6.1
Potassium			2160	1080	760	1820	1170
Sodium			201J	115J	832	1060	1020
Vanadium			9.2	8.6	4.6	10.7	10.5
Zinc			17.8	10.6	9.6	31.2	23.6
TRPH							
4,4-DDD	<0.00087	<0.00086					
4,4-DDE	<0.00087	<0.00086					
4,4-DDT	<0.0013	<0.0013					
Aldrin	<0.00087	<0.00086					
Chlordane							
Endosulfan II	<0.00087	<0.00086					
Endosulfan sulfate	<0.00087	<0.00086					
Heptachlor	<0.00087	<0.00086					
Heptachlor epoxide	<0.00087	<0.00086					
delta-BHC	<0.00087	<0.00086					
gamma-BHC	<0.00087	<0.00086					

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SD-08-SB23		SD08-MW10-SB-05'	SD08-MW10-SB-09'	SD08-MW11-SB-05'	SD08-MW11-SB-09'	SD08-MW11-SB-09'A
Depth (ft bgs)	**4**	**7**	**5**	**9**	**5**	**9**	**9**
Date	**Oct-06**		**3/26/2013**	**3/26/2013**	**3/26/2013**	**3/26/2013**	**3/26/2013**
1,1-Dichloroethene	<0.0026	<0.0025	<0.0038	<0.0038	<0.004	<0.0042	<0.0044
Benzene	<0.0026	<0.0025	<0.0038	<0.0038	<0.004	<0.0042	<0.0044
Chlorobenzene	<0.0026	<0.0025	<0.0038	<0.0038	<0.004	<0.0042	<0.0044
Ethylbenzene	<0.0026	<0.0025	<0.0038	<0.0038	<0.004	<0.0042	<0.0044
Methylene chloride	<0.0064	<0.0062	<0.0075	<0.0076	<0.0081	<0.0083	<0.0088
Toluene	<0.0026	<0.0025	<0.0038	<0.0038	<0.004	<0.0042	<0.0044
Diethyl phthalate	0.15 J	<0.11					

Notes:
All units are milligrams per kilogram (mg/kg)
ft bgs = Feet below ground surface
B = Analyte detected in laboratory blank analysis
J = Detected below the detection limit, an estimated value is shown
P = Results of dual-column GC differ by < 25 %
ND = Not detected, but detection limit not known
Blank = Sample not analyzed or data not reported

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SB-08-01		SB-08-02		SB-08-03		SB-08-04		SB-08-05		SB-08-06		SB-08-07	SB-08-08
Depth (ft bgs)	0 - 2	6 - 8	0 - 2	5 - 7	0 - 2	10 - 12	0 - 2	2 - 4	2 - 4	6 - 8	2.5 - 4.5	7.5 - 9.5	0 - 2	0 - 2
Date	1991		1991		1991		1991		1991		1991		1993	1993
Aluminum														
Arsenic	<1.3	<0.75	<3.3	1.6	<1.3	<0.76	1.8	1.5	2.1	1.1	3	1.1		
Barium														
Beryllium	0.39	<0.45	0.36	0.43	0.34	<0.4	0.44	<0.38	0.45	<0.42	0.71	<0.40		
Cadmium	0.92	<1.1	1.8	<0.37	<0.78	<1.0	<0.77	<0.95	<0.80	<1.0	0.92	<1.0	ND	
Calcium														
Chromium	13	6	17	11	8.9	2.2	15	8.2	9.7	4	7.9	6.4		
Cobalt														
Copper	51	<4.5	37	5.8	10	<4.0	20	7	3.2	<4.2	5.2	4.2		
Iron														
Lead	50	1.1	370	2.3	19	0.3	8.1	18	2	0.75	1	1.3	9.22	
Magnesium														
Manganese														
Mercury	0.49	<0.06	2.2	<0.053	0.11	<0.064	0.8	<0.053	<0.053	<0.06	<0.056	<0.06	ND	
Nickel	10	<4.5	9.3	6.1	6.8	<4.0	14	7.1	7	<4.2	6.8	4.9		
Potassium														
Sodium														
Vanadium														
Zinc	180	12	620	21	48	6.3	50	30	23	9.6	16	11		
4,4-DDD	0.11	<0.0006	4	0.001	0.028	<0.00079	0.23	<0.00061	0.00011 J	<0.00068	0.0032	0.004	0.0564	0.0094
4,4-DDE	0.41	<0.0006	5.6	0.01	0.086	<0.00079	0.53	0.0033	0.001	<0.00068	0.000055 J	0.00076	0.0521	0.0081
4,4-DDT	0.4	<0.0012	9.3	0.012	0.026	<0.0016	0.5	0.001 J	0.00034 J	<0.0014	0.0013	0.002	0.0467	0.0056
Aldrin	<0.0056	0.00049 J	0.041	0.00049 J	<0.0056	0.00045 J	0.005 J	<0.00061	<0.00061	<0.00068	<0.00061	0.0017		
Chlordane	0.95	<0.003	4	0.02	0.23	<0.0039	0.73	<0.0031	<0.003	<0.0034	0.017	0.032	0.0895 B	0.0859
Endosulfan II	0.0025 J	<0.0018	<0.017	<0.0017	<0.017	<0.0024	<0.016	<0.0018	<0.0018	<0.0021	<0.0018	<0.0019		
Endosulfan sulfate	<0.028	0.0011 J	<0.028	0.00027 J	<0.028	0.00064 J	0.00068 J	<0.0031	<0.003	<0.0034	0.0023 JB	<0.0031		
Heptachlor	0.0063	0.00031 J	0.056	0.0009	<0.0056	0.00087	0.012	0.0003 J	0.00039 J	<0.00068	<0.00061	<0.00063	0.0041	0.0033
Heptachlor epoxide	0.011	0.0003 J	0.074	0.0044	<0.0056	<0.00079	0.012	<0.00061	<0.00061	<0.00068	<0.00061	<0.00063		
delta-BHC	0.016	0.0016	0.021	0.0016	0.015	0.0021	<0.0055	0.0018	<0.00061	<0.00068	0.0018	0.0017		
gamma-BHC	<0.0056	0.00061	<0.0056	<0.00058	<0.0056	<0.00079	<0.0055	<0.00061	<0.00061	<0.00068	<0.00061	<0.00063		

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SB-08-01		SB-08-02		SB-08-03		SB-08-04		SB-08-05		SB-08-06		SB-08-07	SB-08-08
Depth (ft bgs)	0 - 2	6 - 8	0 - 2	5 - 7	0 - 2	10 - 12	0 - 2	2 - 4	2 - 4	6 - 8	2.5 - 4.5	7.5 - 9.5	0 - 2	0 - 2
Date	1991		1991		1991		1991		1991		1991		1993	1993
1,1-Dichloroethene	<0.11	<0.12	<0.11	<0.12	<0.11	0.023 J	<0.11	<0.12	<0.12	<0.13	<0.12	<0.13		
Benzene	<0.11	<0.12	<0.11	<0.12	<0.11	<0.16	0.0026 J	<0.12	<0.12	<0.13	<0.12	<0.13		
Chlorobenzene	0.04 J	0.0028 J	0.015 J	<0.12	0.0056 J	<0.16	<0.11	<0.12	<0.12	<0.13	<0.12	<0.13		
Ethylbenzene	<0.11	<0.12	<0.11	<0.12	<0.11	<0.16	0.0026 J	<0.12	<0.12	<0.13	<0.12	<0.13		
Methylene chloride	0.15 B	0.051 JB	0.41 B	0.38 B	0.15 B	0.47 B	0.59 B	0.32 B	<0.12	<0.13	0.17 B	0.57 B		
Toluene	0.0057 J	<0.12	0.0074 J	0.0055 J	0.006 J	0.0071 J	<0.11	<0.12	<0.12	<0.13	<0.12	<0.13		
Diethyl phthalate														

Notes:
All units are milligrams per kilogram (mg/kg)
ft bgs = Feet below ground surface
B = Analyte detected in laboratory blank analysis
J = Detected below the detection limit, an estimated value is shown
P = Results of dual-column GC differ by < 25 %
ND = Not detected, but detection limit not known
Blank = Sample not analyzed or data not reported

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SB-08-09	SB-08-10	SB-08-10	SB-08-11		SB-08-12		SB-08-13		SB-08-13	SB-08-14		SB-08-15	
Depth (ft bgs)	0 - 2	0 - 2	2 - 4	0 - 2	2 - 4	0 - 2	2 - 4	0 - 2	2 - 4	4 - 6	2 - 4	4 - 6	0 - 2	2 - 4
Date	1993	1993	1993	1993		1993		1993		1993	1993		1993	
Aluminum														
Arsenic														
Barium														
Beryllium														
Cadmium		3.71		ND			ND		ND		ND			
Calcium														
Chromium														
Cobalt														
Copper														
Iron														
Lead		69.9		10.6			2.8		9.11		7.25			
Magnesium														
Manganese														
Mercury		0.297		0.068			ND		ND		ND			
Nickel														
Potassium														
Sodium														
Vanadium														
Zinc														
4,4-DDD	0.0034	0.116	0.0015	0.021	ND	0.065 P	ND	0.492	0.0018 P	0.0049	ND	0.001	0.0017	0.0019
4,4-DDE	0.009	0.0884	0.0014	0.0233	ND	1.85	0.012	2.5	0.0018	0.0121	0.0029	0.0059	0.0061	0.004
4,4-DDT	0.0083	0.0825	0.0026	0.0206	ND	2.74	0.0079	4.21	0.0156	0.0184	0.0037	0.006	0.0035	0.004
Aldrin														
Chlordane	0.0036	0.263 B	0.0029 B	0.0577 B	0.238	0.0511 B	ND	0.386	0.0234	0.0018	0.0012	0.0029	0.0034	0.0022
Endosulfan II														
Endosulfan sulfate														
Heptachlor	ND	0.0089 P	ND	0.493	0.343	ND	ND	0.0078	0.0025	ND	ND	ND	ND	ND
Heptachlor epoxide														
delta-BHC														
gamma-BHC														

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SB-08-09	SB-08-10	SB-08-10	SB-08-11		SB-08-12		SB-08-13		SB-08-13	SB-08-14		SB-08-15	
Depth (ft bgs)	0 - 2	0 - 2	2 - 4	0 - 2	2 - 4	0 - 2	2 - 4	0 - 2	2 - 4	4 - 6	2 - 4	4 - 6	0 - 2	2 - 4
Date	1993	1993	1993	1993		1993		1993		1993	1993		1993	
1,1-Dichloroethene														
Benzene														
Chlorobenzene														
Ethylbenzene														
Methylene chloride														
Toluene														
Diethyl phthalate														

Notes:
All units are milligrams per kilogram (mg/kg)
ft bgs = Feet below ground surface
B = Analyte detected in laboratory blank analysis
J = Detected below the detection limit, an estimated value is shown
P = Results of dual-column GC differ by < 25 %
ND = Not detected, but detection limit not known
Blank = Sample not analyzed or data not reported

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SB-08-16	SB-08-17		SB-08-18	SB-08-19		SB-08-20		SD-08-SB21 (Avg)	SD-08-SB21	SD-08-SB22		SD-08-SB23	
Depth (ft bgs)	**0 - 2**	**0 - 2**	**2 - 4**	**0 - 2**	**0 - 2**	**2 - 4**	**0 - 2**	**2 - 4**	**2**	**6**	**2**	**7**	**4**	**7**
Date	**1993**	**1993**		**1993**	**1993**		**1993**		**Oct-06**		**Oct-06**		**Oct-06**	
Aluminum														
Arsenic									2.4	1.6	3.0	3.1	3.0	0.99 J
Barium									61.8	79.5	114.0	87.2	75.9	60.1
Beryllium														
Cadmium		ND			ND				0.035	0.057 J	0.13 J	0.024 J	0.08 J	0.027 J
Calcium														
Chromium									5.5	4.9	14.3	11.9	5.2	3.5
Cobalt														
Copper														
Iron														
Lead		7.44			0.726				2.9	2.2 J	5.3 J	4.2 J	2.5 J	1.8 J
Magnesium														
Manganese														
Mercury		ND			ND				0.0085	<0.0079	0.0092 J	0.021 J	<0.0075	<0.0078
Nickel														
Potassium														
Sodium														
Vanadium														
Zinc														
4,4-DDD	0.0015	ND	ND	0.0912	0.0013	ND	ND	ND	<0.00077	<0.00088	<0.00089	<0.0008	<0.00087	<0.00086
4,4-DDE	0.0102	0.106	0.0089	0.696	0.0012	ND	0.0078	ND	<0.00077	<0.00088	0.0011 J	<0.0008	<0.00087	<0.00086
4,4-DDT	0.0081	0.0296	0.0044	0.707	0.0034	ND	0.01	ND	<0.0012	<0.0013	<0.0013	<0.0012	<0.0013	<0.0013
Aldrin									<0.00077	<0.00088	<0.00089	<0.0008	<0.00087	<0.00086
Chlordane	ND	ND	ND	0.0216 B	0.0028	ND	ND	ND						
Endosulfan II									<0.00077	<0.00088	<0.00089	<0.0008	<0.00087	<0.00086
Endosulfan sulfate									<0.00077	<0.00088	<0.00089	<0.0008	<0.00087	<0.00086
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND	<0.00077	<0.00088	<0.00089	<0.0008	<0.00087	<0.00086
Heptachlor epoxide									<0.00077	<0.00088	<0.00089	<0.0008	<0.00087	<0.00086
delta-BHC									<0.00077	<0.00088	<0.00089	<0.0008	<0.00087	<0.00086
gamma-BHC									<0.00077	<0.00088	<0.00089	<0.0008	<0.00087	<0.00086

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SB-08-16	SB-08-17		SB-08-18	SB-08-19		SB-08-20		SD-08-SB21 (Avg)	SD-08-SB21	SD-08-SB22		SD-08-SB23	
Depth (ft bgs)	**0 - 2**	**0 - 2**	**2 - 4**	**0 - 2**	**0 - 2**	**2 - 4**	**0 - 2**	**2 - 4**	**2**	**6**	**2**	**7**	**4**	**7**
Date	**1993**	**1993**		**1993**	**1993**		**1993**		**Oct-06**		**Oct-06**		**Oct-06**	
1,1-Dichloroethene									<0.0019	<0.0024	<0.0028	<0.0022	<0.0026	<0.0025
Benzene									<0.0019	<0.0024	<0.0028	<0.0022	<0.0026	<0.0025
Chlorobenzene									<0.0019	<0.0024	<0.0028	<0.0022	<0.0026	<0.0025
Ethylbenzene									<0.0019	<0.0024	<0.0028	<0.0022	<0.0026	<0.0025
Methylene chloride									<0.0047	<0.0054	<0.007	<0.0054	<0.0064	<0.0062
Toluene									<0.0019	<0.0024	<0.0028	<0.0022	<0.0026	<0.0025
Diethyl phthalate									0.089	<0.11	0.93	<0.099	0.15 J	<0.11

Notes:
All units are milligrams per kilogram (mg/kg)
ft bgs = Feet below ground surface
B = Analyte detected in laboratory blank analysis
J = Detected below the detection limit, an estimated value is shown
P = Results of dual-column GC differ by < 25 %
ND = Not detected, but detection limit not known
Blank = Sample not analyzed or data not reported

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SD08-MW10-SB-05'	SD08-MW10-SB-09'	SD08-MW11-SB-05'	SD08-MW11-SB-09' (Avg)
Depth (ft bgs)	**5**	**9**	**5**	**9**
Date	**3/26/2013**	**3/26/2013**	**3/26/2013**	**3/26/2013**
Aluminum	5560	3980	1990	5505
Arsenic	1.9	1.4	0.63	1.85
Barium	47.4	45.1	27.7	60.45
Beryllium	0.22J	0.14J	0.094J	0.465
Cadmium	<0.93	<1.8	<1.7	<1.05
Calcium	94800	123000	143000	143500
Chromium	6	4.3J	2.5J	9.05
Cobalt	1.6J	1.2J	0.87J	2.95
Copper	3.7	2.4	1.1	3.95
Iron	4170	3060	1820	5300
Lead	4.4J	3.5J	4J	8.3
Magnesium	3030	1940	1400	8915
Manganese	68	44.3	24.9	112.45
Mercury	<0.044	<0.046	<0.047	<0.0485
Nickel	3.7	2.7	1.9	7.6
Potassium	2160	1080	760	1495
Sodium	201J	115J	832	1040
Vanadium	9.2	8.6	4.6	10.6
Zinc	17.8	10.6	9.6	27.4
4,4-DDD				
4,4-DDE				
4,4-DDT				
Aldrin				
Chlordane				
Endosulfan II				
Endosulfan sulfate				
Heptachlor				
Heptachlor epoxide				
delta-BHC				
gamma-BHC				

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SD08-MW10-SB-05'	SD08-MW10-SB-09'	SD08-MW11-SB-05'	SD08-MW11-SB-09' (Avg)
Depth (ft bgs)	**5**	**9**	**5**	**9**
Date	**3/26/2013**	**3/26/2013**	**3/26/2013**	**3/26/2013**
1,1-Dichloroethene	<0.0038	<0.0038	<0.004	<0.0043
Benzene	<0.0038	<0.0038	<0.004	<0.0043
Chlorobenzene	<0.0038	<0.0038	<0.004	<0.0043
Ethylbenzene	<0.0038	<0.0038	<0.004	<0.0043
Methylene chloride	<0.0075	<0.0076	<0.0081	<0.00855
Toluene	<0.0038	<0.0038	<0.004	<0.0043
Diethyl phthalate				

Notes:
All units are milligrams per kilogram (mg/kg)
ft bgs = Feet below ground surface
B = Analyte detected in laboratory blank analysis
J = Detected below the detection limit, an estimated value is shown
P = Results of dual-column GC differ by < 25 %
ND = Not detected, but detection limit not known
Blank = Sample not analyzed or data not reported

Table 8-1(c)
Statistical Summary of Soil Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Chemical	Total Number of Samples	Number of Detected Concentrations	Number of Non-Detected Concentrations	Detected Concentration		Detection Limit	
				Minimum	Maximum	Minimum	Maximum
				mg/kg			
Aluminum	4	4	0	1990	5560	NA	NA
Arsenic	22	17	5	0.63	3.1	0.75	3.3
Barium	10	10	0	27.7	114	NA	NA
Beryllium	16	11	5	0.094	0.71	0.38	0.45
Cadmium	30	10	20	0.024	3.71	0.37	1.8
Calcium	4	4	0	94800	143500	NA	NA
Chromium	22	22	0	2.2	17	NA	NA
Cobalt	4	4	0	0.87	2.95	NA	NA
Copper	16	13	3	1.1	51	4	4.5
Iron	4	4	0	1820	5300	NA	NA
Lead	30	30	0	0.3	370	NA	NA
Magnesium	4	4	0	1400	8915	NA	NA
Manganese	4	4	0	24.9	112.45	NA	NA
Mercury	30	9	21	0.00845	2.2	0.0075	0.064
Nickel	16	13	3	1.9	14	4	4.5
Potassium	4	4	0	760	2160	NA	NA
Sodium	4	4	0	115	1040	NA	NA
Vanadium	4	4	0	4.6	10.6	NA	NA
Zinc	16	16	0	6.3	620	NA	NA
4,4-DDD	42	24	18	0.00011	4	0.0006	0.00089
4,4-DDE	42	31	11	0.000055	5.6	0.0006	0.00088
4,4-DDT	42	30	12	0.00034	9.3	0.0012	0.0016
Aldrin	18	6	12	0.00045	0.041	0.00061	0.0056
Chlordane	36	24	12	0.0012	4	0.003	0.0039
Endosulfan II	18	1	17	0.0025	0.0025	0.00077	0.017
Endosulfan sulfate	18	5	13	0.00027	0.0023	0.00077	0.028
Heptachlor	42	15	27	0.0003	0.493	0.00061	0.0056
Heptachlor epoxide	18	5	13	0.0003	0.074	0.00061	0.0056
delta-BHC	18	9	9	0.0016	0.021	0.00061	0.0055
gamma-BHC	18	1	17	0.00061	0.00061	0.00058	0.0056
1,1-Dichloroethene	22	1	21	0.023	0.023	0.0019	0.13
Benzene	22	1	21	0.0026	0.0026	0.0019	0.16
Chlorobenzene	22	4	18	0.0028	0.04	0.0019	0.16
Ethylbenzene	22	1	21	0.0026	0.0026	0.0019	0.16
Methylene chloride	22	10	12	0.051	0.59	0.0047	0.13
Toluene	22	5	17	0.0055	0.0074	0.0019	0.13
Diethyl phthalate	6	3	3	0.089	0.93	0.099	0.11

Notes:
NA = Not applicable since all samples were detected
mg/kg = Milligrams per kilogram

Table 8-1(d)
Comparison of Maximum Detected Concentrations in Soil with Screening Levels
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Chemical	Maximum Detected Concentration	Screening Level		Exceed/Not Exceed	COPC
		(mg/kg)	Source		
Aluminum	5560	78,000	1	Not Exceed	No
Arsenic	3.1	3.9	1	Not Exceed	No
Barium	114	15,600	1	Not Exceed	No
Beryllium	0.71	156	1	Not Exceed	No
Cadmium	3.71	70.3	1	Not Exceed	No
Calcium	143500	317,332	3	Not Exceed	No
Chromium*	17	117,000	1	Not Exceed	No
Cobalt	2.95	23	2	Not Exceed	No
Copper	51	3,130	1	Not Exceed	No
Iron	5300	54,800	1	Not Exceed	No
Lead	370	400	1	Not Exceed	No
Magnesium	8915	16,991	3	Not Exceed	No
Manganese	112.45	1,860	1	Not Exceed	No
Mercury	2.2	15.6	1	Not Exceed	No
Nickel	14	1,560	1	Not Exceed	No
Potassium	2160	5,077	3	Not Exceed	No
Sodium	1040	5,196	3	Not Exceed	No
Vanadium	10.6	391	1	Not Exceed	No
Zinc	620	23,500	1	Not Exceed	No
4,4-DDD	4	20	1	Not Exceed	No
4,4-DDE	5.6	14	1	Not Exceed	No
4,4-DDT	9.3	17	1	Not Exceed	No
Aldrin	0.041	0.284	1	Not Exceed	No
Chlordane	4	16	1	Not Exceed	No
Endosulfan II*	0.0025	367	1	Not Exceed	No
Endosulfan sulfate	0.0023	NA		N/A	No
Heptachlor	0.493	1.08	1	Not Exceed	No
Heptachlor epoxide#	0.074	0.53	2	Not Exceed	No
delta-BHC##	0.021	0.772	1	Not Exceed	No
gamma-BHC	0.00061	5.17	1	Not Exceed	No
1,1-Dichloroethene	0.023	449	1	Not Exceed	No
Benzene	0.0026	15.4	1	Not Exceed	No
Chlorobenzene	0.04	376	1	Not Exceed	No
Ethylbenzene	0.0026	68	1	Not Exceed	No
Methylene chloride	0.59	409	1	Not Exceed	No
Toluene	0.0074	5,270	1	Not Exceed	No
Diethyl phthalate	0.93	48,900	1	Not Exceed	No

Notes:
COPC = Chemical of potential concern
mg/kg = Milligrams per kilogram
NA = Not available N/A = Not applicable
* = Screening level for chromium III
** = Screening level for endosulfan
# = RSL based on cancer target risk of 1E-06. Therefore, RSL was mulfiplied by 10 to be consistent with the NMED's target risk of 1E-05.
= Screening level for alpha-BHC which is minimum of screening levels for alpha-BHC, beta-BHC, and gamma-BHC
Sources:
1 = NMED, 2012b. *Risk Assessment Guidance for Site Investigations and Remediation* , February 2012 (Updated June 2012)
2 = USEPA, 2013. Regional Screening Level (RSL) Summary Table November 2013
3 = NMED Approved HAFB Background Levels (NMED, 2011)

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-01	MW-08-01	MW-08-01	MW-08-01	MW-08-01	MW-08-01	MW-08-01	MW-08-01	MW-08-01A	MW-08-01	MW-08-01A	MW-08-01	MW-08-01	MW-08-01	MW-08-01
Date	**1991**	**Aug-95**	**Sep-97**	**Sep-99**	**Sep-01**	**Apr-03**	**Nov-06**	**Jan-12**	**Jan-12**	**Apr-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**
Fluoride	2.7							5.63	5.78			5.41	3.38	3.28	
Nitrate								<10	<10			<5	<2.5	<5	<5
Nitrate-nitrite	<0.022							<10	<10						
Chloride	120							614	627			519	563	556	
Sulfate	2,600							6250	6260			5540	5780	5470	
Total phosphorus	0.53														
Aluminum								0.11J	0.12J	0.11J	0.11J	<0.2			
Antimony								<0.06	<0.06	<0.06	<0.06	<0.06			
Arsenic	0.011	ND	ND	0.0316 BJ	0.0128	0.00934 J	0.0234	0.0066J	0.0068J	<0.02	0.015J	<0.01			
Barium		ND	0.028	0.0169 BJ	0.0142	0.0165	0.0158 J	0.012	0.012	0.014	0.015	0.0098J			
Beryllium	0.0031							<0.005	<0.005	<0.01	<0.01	<0.005			
Cadmium		ND	ND	0.0003 B			<0.0003	0.0027J	0.0028J	0.00037J	0.0005J	0.0023J			
Calcium								481	497	455	484	444			
Chromium	0.013	ND	ND	<0.0006			<0.0006	0.0004J	<0.01	0.0039J	0.0041J	<0.01			
Cobalt								<0.01	<0.01	<0.02	<0.02	<0.01			
Copper	0.031							<0.01	<0.01	0.029	0.024	0.0083J			
Iron		ND	5.9	6.62 J	6.5	7.805		8.48	8.63	8.19	9.23	4.89			
Lead	0.021	0.031	ND	<0.0015	<0.010		<0.0017	<0.015	<0.015	<0.03	<0.03	<0.015			
Magnesium								587	608	608	602	572			
Manganese		ND	2.6	3.72	2.69 J	2.98		2.48	2.56	2.02	2	1.56			
Mercury							0.00021 J	<0.0002	<0.0002	0.0001J	0.00009J	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	0.021							<0.04	<0.04	0.0058J	0.0041J	<0.04			
Potassium								5.94	6.1	6.48	6.41	5.31			
Selenium		ND	ND	<0.0022			<0.056	<0.04	<0.04	<0.08	<0.08	0.0061J			
Silver		ND	ND	<0.0005			<0.0009	<0.01	<0.01	0.0056J	0.0058J	<0.01			
Sodium								1900	1890	1530	1540	1670			
Thallium								<0.02	<0.02	<0.02	<0.02	<0.02			
Vanadium								<0.02	<0.02	0.074	0.079	0.038			
Zinc	0.086							<0.02	<0.02	0.013J	<0.02	<0.02			
Aluminum (Dissolved)								<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	<0.2
Antimony (Dissolved)								<0.06	<0.06	<0.06	<0.06	<0.06	0.011J	0.02J	<0.06
Asenic (Dissolved)								0.0052J	0.005J	<0.02	<0.02	0.0037J	<0.01	<0.05	0.012J
Barium (Dissolved)								0.011	0.011	0.0099J	0.0091J	0.0093J	0.012	0.01J	0.013
Beryllium (Dissolved)								<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.025	<0.004
Cadmium (Dissolved)								0.0029J	0.0029J	<0.01	<0.01	0.0026J	<0.005	<0.025	<0.005
Calcium (Dissolved)								491	501	470	453	475	520	420	523
Chromium (Dissolved)								<0.01	<0.01	<0.02	<0.02	<0.01	0.019	<0.05	<0.01
Cobalt (Dissolved)								<0.01	<0.01	<0.02	<0.02	0.00075J	<0.01	<0.05	<0.01
Copper (Dissolved)								<0.01	<0.01	<0.01	<0.01	0.0072J	0.0038J	<0.05	0.0051J
Iron (Dissolved)								7.38	7.56	5.33	5.34	5.17	5.52	6.07	7.14
Lead (Dissolved)								<0.015	<0.015	<0.03	<0.03	<0.015	<0.015	<0.075	<0.015
Magnesium (Dissolved)								599	615	590	570	590	649	515	634
Manganese (Dissolved)								2.55	2.6	1.85	1.79	1.71	1.66	1.84	2.39
Mercury (Dissolved)								<0.0002	<0.0002	0.00011J	<0.0002	<0.0002	<0.0002	0.00011J	<0.0002
Nickel (Dissolved)								<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.2	<0.04
Potassium (Dissolved)								6.37	6.27	4.42	4.58	5.24	6.4	4.28	6.37
Selenium (Dissolved)								<0.04	<0.04	<0.08	<0.08	<0.04	<0.04	<0.2	<0.04
Silver (Dissolved)								<0.01	<0.01	0.0034J	0.006J	<0.01	<0.01	<0.05	<0.01
Sodium (Dissolved)								1920	1950	1620	1590	1760	1740	1580	1880
Thallium (Dissolved)								<0.02	<0.02	<0.02	<0.02	0.005J	<0.02	0.035J	<0.02
Vanadium (Dissolved)								<0.02	<0.02	0.012J	0.01J	0.032	0.0035J	<0.1	0.047
Zinc (Dissolved)								<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-01	MW-08-01	MW-08-01	MW-08-01	MW-08-01	MW-08-01	MW-08-01	MW-08-01	MW-08-01A	MW-08-01	MW-08-01A	MW-08-01	MW-08-01	MW-08-01	MW-08-01
Date	**1991**	**Aug-95**	**Sep-97**	**Sep-99**	**Sep-01**	**Apr-03**	**Nov-06**	**Jan-12**	**Jan-12**	**Apr-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**
4,4-DDD	<0.0000097	ND	ND	<0.0001			<0.000019								
4,4-DDE	<0.0000097	ND	ND	<0.0001			<0.000019								
Aldrin	<0.0000097						<0.000019								
Chlordane	<0.000048														
alpha-Chlordane							<0.000014								
gamma-Chlordane		ND	ND	0.000078 PJ			<0.000014								
Dieldrin	0.000017						<0.000014								
Endosulfan I							<0.000014								
Endosulfan II							<0.000019								
Endosulfan sulfate		ND	ND	<0.0001			<0.000019								
Heptachlor	<0.0000097						<0.000019								
Heptachlor epoxide	<0.0000097	ND	ND	<0.00005			<0.000014								
alpha-BHC	0.000068						<0.000014								
delta-BHC	0.0028						<0.000019								
gamma-BHC	0.000066						<0.000014								
1,2-Dichlorobenzene								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.025	ND	0.13	0.13 D	<0.005	0.073	0.134	0.0444	0.0406	0.0283	0.0276	0.0163	0.0293	0.0238	0.0272
1,2-Dichloropropane	0.0083 J	ND	0.0035	0.008			0.0103	0.00649	0.00613	0.00547	0.00562	0.00298J	0.00558	0.00497J	0.00538
1,1,2-Trichloroethane							0.0039	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Dichlorobenzene							0.00052 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		ND	ND	<0.005			<0.005	0.00967	0.0104	0.0717	0.0492	<0.005	0.00687	0.00698	0.00317J
Benzene	10	ND	0.0037	0.002 J			0.00057 J	0.000513J	0.000559J	0.000332J	0.000438J	<0.005	<0.005	0.000584J	0.000506J
Bromodichloromethane	<0.025	ND	ND	<0.003			<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform		ND	ND	<0.003			<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene		ND	0.0023 J				<0.0005	0.000924J	0.000741J	0.00321J	0.00318J	<0.005	<0.005	<0.005	0.00357J
tert-Butylbenzene							0.00057 J	0.00101J	0.001J	0.00373J	0.00376J	<0.005	0.000806J	0.000784J	0.00384J
Chloroform	<0.025	0.17	ND	<0.003			<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	1.6	ND	0.0015	0.002 J			<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene		ND	0.0015 J				<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methylene chloride	0.011 J						<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone							<0.0025	<0.005	<0.005	0.0371	0.0354	<0.005	<0.005	0.0392	<0.005
n-Propylbenzene								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	0.0077 J	ND	0.00086 J	<0.003			<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0392	<0.005
Trichloroethene								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes	0.019 J						<0.001	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Naphthalene	0.27	ND	0.0015 J				<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Diethyl phthalate							<0.002								
bis(2-Ethylhexyl)phthalate							<0.0025								

Notes:
Units are in milligrams per liter (mg/L)
B = Analyte detected in laboratory blank analysis
D = Value derived from analysis of diluted sample
J = Detected below the detection limit, an estimated value is shown
ND = Not detected, but detection limit not known
P = Results of dual-column gas chromatograph technique differs by more than 25%
Blank = For 2012 and 2013 events, sample not analyzed. Prior to 2012, samples not analyzed, data not reported, or reporting limit not presented.

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-01A	MW-08-01	MW-08-01	MW-08-01-A	MW-08-02	MW-08-02	MW-08-02	MW-08-02	MW-08-02	MW-08-02	MW-08-02	MW-08-02-A	MW-08-02	MW-08-02	MW-08-03
Date	**Apr-13**	**Jul-13**	**Nov-13**	**Nov-13**	**1991**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Apr-13**	**Jul-13**	**Nov-13**	**1991**
Fluoride					3.3	7.31		4.12	3.53	3.94					1.9
Nitrate	<5	<5	<2	<2		0.09J		<2.5	<2.5	0.132J	<0.5	<0.5	<2.5	<1	
Nitrate-nitrite					0.095										19
Chloride					51	73.1		119	101	116					1,700
Sulfate					1,700	2,160		1,960	1,890	1,940					3,800
Total phosphorus					0.13										0.15
Aluminum						0.17J	0.14J	0.048J							
Antimony						<0.06	<0.06	0.0042J							
Arsenic					0.0051	0.023	0.018J	0.031							0.011
Barium						0.013	0.014	0.14							
Beryllium					<0.002	<0.005	<0.01	<0.005							<0.002
Cadmium						0.0019J	0.0009J	0.0024J							
Calcium						614	597	599							
Chromium					<0.01	<0.01	0.0019J	<0.01							<0.01
Cobalt						0.0018J	0.0022J	0.0057J							
Copper					<0.02	0.0044J	0.032	0.013							<0.02
Iron						0.9	0.59	1.76							
Lead					0.0058	<0.015	<0.03	0.0056J							<0.003
Magnesium						163	162	153							
Manganese						1.05	0.98	3.01							
Mercury	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	0.00011J	<0.0002	<0.0002	0.00008J	<0.0002	<0.0002	<0.0002	<0.0002	
Nickel					<0.02	0.00094J	0.0069J	0.0019J							<0.02
Potassium						3.53	3.98	3.67							
Selenium						<0.04	<0.08	<0.04							
Silver						<0.01	0.0047J	<0.01							
Sodium						90	107	118							
Thallium						<0.02	<0.02	<0.02							
Vanadium						0.023	0.075	0.051							
Zinc					<0.02	0.011J	0.018J	<0.02							<0.02
Aluminum (Dissolved)	<0.2	<0.2	<2	<2		0.16J	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2	
Antimony (Dissolved)	<0.06	<0.06	<0.6	<0.6		<0.06	<0.06	<0.06	<0.06	0.032J	<0.06	<0.06	<0.06	<0.06	
Asenic (Dissolved)	0.016J	<0.02	<0.2	<0.2		0.026	0.013J	0.03	0.04	<0.05	0.031	0.033	<0.02	0.014J	
Barium (Dissolved)	0.013	0.0089J	<0.1	<0.1		0.013	0.0093J	0.012	0.011	0.012J	0.013	0.012	0.012	0.015	
Beryllium (Dissolved)	<0.004	<0.004	<0.04	<0.04		<0.005	<0.01	0.00086J	0.00071J	<0.025	<0.004	<0.004	<0.004	<0.004	
Cadmium (Dissolved)	<0.005	<0.005	<0.05	<0.05		0.0021J	<0.01	<0.005	<0.005	<0.025	<0.005	<0.005	<0.005	<0.005	
Calcium (Dissolved)	524	387	490	477		606	557	553	569	562	643	601	470	593	
Chromium (Dissolved)	<0.01	<0.01	<0.1	<0.1		0.0011J	<0.02	0.0014J	0.0074J	<0.05	<0.01	<0.01	<0.01	0.029	
Cobalt (Dissolved)	<0.01	<0.01	<0.1	<0.1		0.0025J	<0.02	0.0054J	0.0035J	<0.05	<0.01	<0.01	<0.01	0.0042J	
Copper (Dissolved)	0.0085J	<0.02	<0.2	<0.2		0.0047J	<0.01	<0.01	<0.01	<0.05	0.018J	0.02	0.02	0.021	
Iron (Dissolved)	7.62	7.11	8.1	7.97		0.52	0.33	1.53	0.92	0.66	0.77	0.71	0.9	1.15	
Lead (Dissolved)	<0.015	<0.015	<0.15	<0.15		<0.015	<0.03	<0.015	<0.015	<0.075	<0.015	<0.015	<0.015	<0.015	
Magnesium (Dissolved)	625	519	597	593		161	152	147	151	147	172	161	155	167	
Manganese (Dissolved)	2.38	2.47	2.59	2.62		1.03	0.8	2.19	1.15	1.02	1.19	1.12	1.08	1.62	
Mercury (Dissolved)	<0.0002	<0.0002	<0.0002	<0.0002		0.0001J	0.00011J	<0.0002		0.00012J	<0.0002	0.00007J	<0.0002	<0.0002	
Nickel (Dissolved)	<0.04	<0.04	<0.4	<0.4		0.0036J	<0.04	0.0019J	<0.04	<0.2	<0.04	<0.04	<0.04	<0.04	
Potassium (Dissolved)	6.22	6.2	5.08	4.48J		3.57	3.03	3.42	4.32	3.01	3.57	3.4	3.78	4.06	
Selenium (Dissolved)	<0.04	<0.04	<0.4	<0.4		<0.04	<0.08	<0.04	<0.04	<0.2	<0.04	<0.04	<0.04	<0.04	
Silver (Dissolved)	<0.01	<0.01	<0.1	0.043J		<0.01	0.0036J	<0.01	<0.01	0.0046J	<0.01	<0.01	<0.01	<0.01	
Sodium (Dissolved)	1830	1780	1830	1770		90.5	114	113	116	119	152	140	193	163	
Thallium (Dissolved)	<0.02	<0.02	<0.2	<0.2		<0.02	<0.02	<0.02	0.0044J	<0.1	<0.02	0.0051J	<0.02	0.012J	
Vanadium (Dissolved)	0.047	<0.02	0.092J	<0.11J		0.021	0.021	0.0065J	<0.02	0.015J	0.05	0.047	<0.02	0.021	
Zinc (Dissolved)	<0.02	<0.02	0.052J	<0.2		<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-01A	MW-08-01	MW-08-01	MW-08-01-A	MW-08-02	MW-08-02	MW-08-02	MW-08-02	MW-08-02	MW-08-02	MW-08-02	MW-08-02-A	MW-08-02	MW-08-02	MW-08-03
Date	**Apr-13**	**Jul-13**	**Nov-13**	**Nov-13**	**1991**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Apr-13**	**Jul-13**	**Nov-13**	**1991**
4,4-DDD					<0.00001										0.000033
4,4-DDE					<0.00001										0.000023
Aldrin					<0.00001										0.00018
Chlordane					<0.00005										0.00044
alpha-Chlordane															
gamma-Chlordane															
Dieldrin					<0.00001										0.00067
Endosulfan I															
Endosulfan II															
Endosulfan sulfate															
Heptachlor					<0.00001										0.00015
Heptachlor epoxide					<0.00001										0.0005
alpha-BHC					<0.00001										<0.0000097
delta-BHC					<0.00001										0.000016
gamma-BHC					<0.00001										0.00045
1,2-Dichlorobenzene	<0.005	<0.005	0.000257J	0.000258J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
1,2-Dichloroethane	0.0279	0.0454	0.0261	0.0422	<0.005	0.00782	0.0112	0.00498J	0.0145	0.0639	0.00537	0.00526	0.0108	0.00402J	0.008
1,2-Dichloropropane	0.00579	0.00672	0.00525	0.00647	<0.005	<0.005	<0.005	<0.005	<0.005	0.00138J	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
o-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Acetone	0.00652	0.00478J	0.00574	0.00455J		<0.005	0.0026J	<0.005	0.00156J	0.00195J	<0.005	<0.005	<0.005	<0.005	
Benzene	0.000409J	0.000778J	0.00125J	0.000534J	<0.005	0.00026J	0.000211J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00081 J
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	0.00094 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Bromomethane	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
sec-Butylbenzene	0.00356J	0.000604J	0.000341J	0.00037J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
tert-Butylbenzene	0.00377J	0.000984J	0.000832J	0.000837J		0.000475J	<0.005	<0.005	<0.005	0.000406J	<0.005	<0.005	0.000349J	<0.005	
Chloroform	<0.005	<0.005	<0.005	<0.005	0.0041 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0011 J
Chloromethane	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	0.00241J	<0.005	<0.005	<0.005	<0.005	<0.005	
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Ethylbenzene	<0.005	0.000473J	0.000785J	0.000276J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Methylene chloride	<0.005	<0.005	<0.005	<0.005	0.0036 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0028 J
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Xylenes	<0.015	<0.015	<0.015	<0.015	<0.005	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.005
Naphthalene	<0.005	<0.005	<0.005	<0.005	ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND
Diethyl phthalate															
bis(2-Ethylhexyl)phthalate															

Notes:
Units are in milligrams per liter (mg/L)
B = Analyte detected in laboratory blank analysis
D = Value derived from analysis of diluted sample
J = Detected below the detection limit, an estimated value is shown
ND = Not detected, but detection limit not known
P = Results of dual-column gas chromatograph technique differs by more than 25%
Blank = For 2012 and 2013 events, sample not analyzed. Prior to 2012, samples not analyzed, data not reported, or reporting limit not presented.

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03
Date	**1994**	**Aug-95**	**Sep-97**	**Sep-99**	**Sep-01**	**Apr-03**	**Dec-05**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**
Fluoride								2.95		2.21	3.11J	1.51J			
Nitrate								16.6		11.7	12.3	14.2	20J	10.8	11.6
Nitrate-nitrite															
Chloride								4030		4100	5180	4150			
Sulfate								4890		5060	5970	4960			
Total phosphorus															
Aluminum								0.31	0.073J	0.034J					
Antimony								<0.06	<0.06	<0.06					
Arsenic		0.01	ND	0.0131 BJ	0.0105	0.0228	0.0083 J	0.0098J	0.011J	0.013					
Barium		ND	ND	0.0155 BJ	0.0112	0.012	0.0151 J	0.0058J	0.0077J	0.0028J					
Beryllium								<0.005	<0.01	<0.005					
Cadmium		ND	ND	<0.0003				0.0024J	<0.01	0.0012J					
Calcium								610	606	623					
Chromium		ND	ND	0.0016 B				0.0011J	0.0049J	<0.01					
Cobalt								<0.01	<0.02	<0.01					
Copper								0.0031J	0.039	0.0043J					
Iron		ND	ND	<0.021	<1.0	0.0771 J	<3.8	<0.1	<0.1	<0.1					
Lead		0.092	ND	<0.0015	<0.010			<0.015	<0.03	<0.015					
Magnesium								662	651	766					
Manganese		ND	ND	0.007 B	<0.010	0.0112	0.0209	<0.015	0.0055J	<0.015					
Mercury								<0.0002	0.00013J	<0.0002	<0.0002	0.00008J	<0.0002	<0.0002	<0.0002
Nickel								0.0024J	0.0089J	<0.04					
Potassium								21.6	24.4	19.3					
Selenium		ND	ND	0.0102 BJ			<0.096	<0.04	<0.08	0.014J					
Silver		ND	ND	0.0012 BJ				<0.01	0.0049J	<0.01					
Sodium								2400	1980	3090					
Thallium								<0.02	<0.02	0.0033J					
Vanadium								0.0037J	0.12	0.06					
Zinc								<0.02	<0.02	<0.02					
Aluminum (Dissolved)								<0.2	<0.2	0.035J	0.13J	<1	<2	<0.2	<2
Antimony (Dissolved)								<0.06	<0.06	<0.06	0.0041J	0.026J	<0.6	<0.06	<0.6
Asenic (Dissolved)								0.014	<0.02	0.022	0.019	<0.05	<0.2	<0.02	<0.2
Barium (Dissolved)								0.0051J	0.0044J	<0.01	0.0044J	0.0062J	<0.1	0.0039J	<0.1
Beryllium (Dissolved)								<0.005	<0.01	0.0012J	0.00026J	<0.025	<0.04	<0.004	<0.04
Cadmium (Dissolved)								0.0024J	<0.01	0.0028J	<0.005	<0.025	<0.05	<0.005	<0.05
Calcium (Dissolved)								593	512	569	548	542	729	458	540
Chromium (Dissolved)								0.00046J	<0.02	<0.01	0.019	<0.05	<0.1	<0.01	<0.1
Cobalt (Dissolved)								<0.01	<0.02	0.00052J	0.0006J	<0.05	<0.1	<0.01	<0.1
Copper (Dissolved)								0.002J	<0.01	0.0024J	0.0016J	<0.05	0.26	<0.02	<0.2
Iron (Dissolved)								<0.1	<0.1	<0.1	<0.1	<0.5	<2	<0.2	<2
Lead (Dissolved)								<0.015	<0.03	<0.015	<0.015	<0.075	<0.15	<0.015	<0.15
Magnesium (Dissolved)								660	533	691	680	701	1790	588	719
Manganese (Dissolved)								<0.015	<0.015	<0.015	<0.015	<0.075	<0.15	<0.015	<0.15
Mercury (Dissolved)								<0.0002	0.00013J	<0.0002		0.00009J	<0.0002	<0.0002	<0.0002
Nickel (Dissolved)								0.0031J	<0.04	0.0018J	<0.04	<0.2	<0.4	<0.04	<0.4
Potassium (Dissolved)								21.4	16.4	21.2	29.1	19.6	35.5	20.1	16.6
Selenium (Dissolved)								<0.04	<0.08	0.015J	<0.04	<0.2	<0.4	<0.04	<0.4
Silver (Dissolved)								<0.01	0.0072J	<0.01	<0.01	0.012J	<0.1	<0.01	0.03J
Sodium (Dissolved)								2370	1850	2900	2820	3160	8390	2520	2660
Thallium (Dissolved)								<0.02	<0.02	0.0095J	<0.02	0.022J	<0.2	<0.02	<0.2
Vanadium (Dissolved)								0.0018J	0.063	0.033	0.035	0.072J	0.68	0.029	0.16J
Zinc (Dissolved)								<0.02	<0.02	0.014J	<0.02	<0.1	<0.2	<0.02	<0.2

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03
Date	**1994**	**Aug-95**	**Sep-97**	**Sep-99**	**Sep-01**	**Apr-03**	**Dec-05**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**
4,4-DDD	0.000046	0.00002	ND	<0.0001											
4,4-DDE	0.000099	0.00003	ND	<0.0001											
Aldrin															
Chlordane															
alpha-Chlordane															
gamma-Chlordane				<0.00005											
Dieldrin															
Endosulfan I	0.000046														
Endosulfan II	0.000035														
Endosulfan sulfate		0.0001	ND	<0.0001											
Heptachlor															
Heptachlor epoxide	0.00016	ND	ND	<0.00005											
alpha-BHC	<0.000013														
delta-BHC	<0.000023														
gamma-BHC	0.00001 J														
1,2-Dichlorobenzene								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane		ND	ND	<0.003	<0.005	0.00069 J	ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane		ND	ND	<0.003			ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Dichlorobenzene								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		ND	ND	<0.005			ND	<0.005	0.00225J	<0.005	0.00136J	0.00147J	<0.005	<0.005	<0.005
Benzene		ND	0.0035	<0.003			ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane		ND	ND	<0.003			ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform		ND	ND	<0.003			ND	<0.005	<0.005	<0.005	<0.005	0.00232J	<0.005	<0.005	<0.005
Bromomethane								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene		ND	ND				ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform		ND	0.00099 J	0.001 J			0.0015	0.00089J	0.000937J	<0.005	0.000578J	<0.005	0.00104J	<0.005	<0.005
Chloromethane								<0.005	<0.005	<0.005	0.00228J	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane								<0.005	<0.005	<0.005	<0.005	0.00124J	<0.005	<0.005	<0.005
Ethylbenzene		ND	ND	<0.003			ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene		ND	ND				ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methylene chloride								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		ND	ND	<0.003			ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes								<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Naphthalene		ND	ND				ND	0.00115J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Diethyl phthalate															
bis(2-Ethylhexyl)phthalate															

Notes:
Units are in milligrams per liter (mg/L)
B = Analyte detected in laboratory blank analysis
D = Value derived from analysis of diluted sample
J = Detected below the detection limit, an estimated value is shown
ND = Not detected, but detection limit not known
P = Results of dual-column gas chromatograph technique differs by more than 25%
Blank = For 2012 and 2013 events, sample not analyzed. Prior to 2012, samples not analyzed, data not reported, or reporting limit not presented.

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04
Date	**1994**	**Aug-95**	**Sep-97**	**Sep-99**	**Sep-01**	**Apr-03**	**Dec-05**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**
Fluoride								2.26		1.26	0.901J	1.02			
Nitrate								4.97J		4.18J	4.19J	6.2	5.82	6.1	3.9
Nitrate-nitrite															
Chloride								477		457	513	583			
Sulfate								3550		2950	3130	2690			
Total phosphorus															
Aluminum								0.11J	0.12J	<0.2					
Antimony								<0.06	<0.06	<0.06					
Arsenic		ND	ND	0.0077 BJ	0.0059 B	0.0111	0.0069 J	<0.01	<0.02	0.005J					
Barium		ND	0.022	0.018 BJ	0.0141	0.0123	0.0172 J	0.0095J	0.012	0.0094J					
Beryllium								<0.005	<0.01	<0.005					
Cadmium		ND	ND	<0.0003				0.00012J	<0.01	0.0008J					
Calcium								460	469	453					
Chromium		ND	ND	<0.0006				0.0014J	0.0023J	<0.01					
Cobalt								<0.01	<0.02	<0.01					
Copper								0.0055J	0.03	0.015					
Iron		ND	ND	<0.021	<1.0	<0.2	<1.5	0.091J	0.14J	<0.1					
Lead		0.082	ND	<0.0015	<0.010			<0.015	<0.03	<0.015					
Magnesium								255	264	261					
Manganese		ND	ND	0.0004 B	0.0449 J	0.00746 J	0.225	0.0024J	0.0028J	<0.015					
Mercury								<0.0002	0.0001J	<0.0002	<0.0002	<0.0002	<0.0002	0.0001	<0.0002
Nickel								<0.04	0.0063J	<0.04					
Potassium								21.1	18.7	16.4					
Selenium		ND	ND	0.0027 BJ			<0.048	<0.04	<0.08	0.0069J					
Silver		ND	ND	<0.0005				<0.01	0.0041J	<0.01					
Sodium								801	607	593					
Thallium								<0.02	<0.02	0.0068J					
Vanadium								0.045	0.11	0.087					
Zinc								<0.02	0.016J	<0.02					
Aluminum (Dissolved)								0.12J	<0.2	0.034J	0.073J	<1	<0.2	<0.2	<0.2
Antimony (Dissolved)								<0.06	<0.06	<0.06	<0.06	<0.3	<0.06	<0.06	<0.06
Asenic (Dissolved)								<0.01	<0.02	0.0092J	0.0039J	<0.05	0.013J	<0.02	0.0074J
Barium (Dissolved)								0.01	0.008J	0.0088J	0.011	0.012J	0.014	0.01	0.011
Beryllium (Dissolved)								<0.005	<0.01	<0.005	0.00042J	0.00062J	<0.004	<0.004	<0.004
Cadmium (Dissolved)								<0.005	<0.01	0.0009J	<0.005	<0.025	<0.005	<0.005	<0.005
Calcium (Dissolved)								498	456	486	456	461	549	483	489
Chromium (Dissolved)								0.0013J	<0.02	<0.01	0.011	<0.05	<0.01	<0.01	0.015
Cobalt (Dissolved)								<0.01	<0.02	<0.01	0.00088J	<0.05	<0.01	<0.01	0.0034J
Copper (Dissolved)								0.0058J	<0.01	0.013	<0.01	<0.05	0.019J	<0.02	<0.02
Iron (Dissolved)								<0.1	<0.1	<0.1	<0.1	<0.5	<0.2	<2	<0.2
Lead (Dissolved)								<0.015	<0.03	<0.015	<0.015	<0.075	<0.015	<0.015	<0.015
Magnesium (Dissolved)								279	245	259	247	255	300	292	280
Manganese (Dissolved)								<0.015	<0.015	<0.015	<0.015	<0.075	<0.015	<0.015	0.0044J
Mercury (Dissolved)								<0.0002	0.00012J	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
Nickel (Dissolved)								0.001J	<0.04	<0.04	<0.04	<0.2	<0.04	<0.04	<0.04
Potassium (Dissolved)								22.1	16.6	17	20.5	15.1	18.1	15.5	18.4
Selenium (Dissolved)								<0.04	<0.08	0.0054J	<0.04	<0.2	<0.04	<0.04	<0.04
Silver (Dissolved)								<0.01	0.0077J	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01
Sodium (Dissolved)								836	929	570	655	639	766	668	512
Thallium (Dissolved)								<0.02	<0.02	<0.02	0.0056J	<0.1	<0.02	<0.02	<0.02
Vanadium (Dissolved)								0.044	0.053	0.078	0.027	0.024J	0.091	0.025	0.047
Zinc (Dissolved)								<0.02	<0.02	<0.02	0.029	<0.1	<0.02	<0.02	<0.02

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04
Date	**1994**	**Aug-95**	**Sep-97**	**Sep-99**	**Sep-01**	**Apr-03**	**Dec-05**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**
4,4-DDD	<0.000031	ND	ND	<0.0001											
4,4-DDE	<0.000052	ND	ND	<0.0001											
Aldrin															
Chlordane															
alpha-Chlordane															
gamma-Chlordane				<0.00005											
Dieldrin															
Endosulfan I	<0.000021														
Endosulfan II	<0.00001														
Endosulfan sulfate		ND	ND	<0.0001											
Heptachlor															
Heptachlor epoxide	<0.000013	ND	ND	<0.00005											
alpha-BHC	<0.000013														
delta-BHC	0.0000065 JB														
gamma-BHC	<0.000013														
1,2-Dichlorobenzene								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane		ND	ND	<0.003	<0.005	<0.001	ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane		ND	ND	<0.003			ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Dichlorobenzene								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		ND	ND	<0.005			ND	<0.005	0.00123J	<0.005	<0.005	0.00171J	<0.005	<0.005	<0.005
Benzene		ND	ND	<0.003			ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane		ND	0.00061 J	<0.003			ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform		ND	0.00084 J	<0.003			ND	<0.005	<0.005	<0.005	<0.005	0.000636J	<0.005	<0.005	<0.005
Bromomethane								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene		ND	ND				ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform		0.0054	0.0022 J	<0.003			ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane								<0.005	<0.005	<0.005	0.00101J	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		ND	ND	<0.003			ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene		ND	ND				ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methylene chloride								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		ND	ND	<0.003			ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene								<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes								<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Naphthalene		ND	ND				ND	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Diethyl phthalate															
bis(2-Ethylhexyl)phthalate															

Notes:
Units are in milligrams per liter (mg/L)
B = Analyte detected in laboratory blank analysis
D = Value derived from analysis of diluted sample
J = Detected below the detection limit, an estimated value is shown
ND = Not detected, but detection limit not known
P = Results of dual-column gas chromatograph technique differs by more than 25%
Blank = For 2012 and 2013 events, sample not analyzed. Prior to 2012, samples not analyzed, data not reported, or reporting limit not presented.

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05
Date	**1994**	**Aug-95**	**Sep-97**	**Sep-99**	**Sep-01**	**Apr-03**	**Dec-05**	**Nov-06**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**
Fluoride									5.35		4.55	4.19	5.03		
Nitrate									1.04J		0.434J	<2.5	0.321J	<2.5	0.351J
Nitrate-nitrite															
Chloride									27.7		34.2	22.6	59		
Sulfate									1800		1590	1640	1630		
Total phosphorus															
Aluminum									<0.2	0.18J	<0.2				
Antimony									<0.06	<0.06	<0.06				
Arsenic		ND	ND	0.0051 BJ	0.0043 B	<0.01	0.0071 J	0.0045 J	0.0076J	<0.02	<0.01				
Barium		ND	0.025	0.0248 BJ	0.0261	0.0343	0.0412 J	0.0483 J	0.017	0.019	0.014				
Beryllium									<0.005	<0.01	<0.005				
Cadmium		ND	ND	<0.0003				<0.0003	0.0019J	0.00062J	0.0024J				
Calcium									648	610	653				
Chromium		ND	ND	<0.0006				<0.0006	0.00069J	0.00072J	0.00063J				
Cobalt									0.00071J	<0.02	0.0011J				
Copper									0.0073J	0.036	0.011				
Iron		ND	ND	<0.021	0.013 B	<0.2	0.824		0.96	0.38	0.69				
Lead		0.072	ND	<0.0015	<0.010			0.0029 J	<0.015	<0.03	<0.015				
Magnesium									52.2	72.6	55.7				
Manganese		ND	0.26	0.235	0.0044 BJ	0.0213	0.255		0.042	0.067	0.047				
Mercury								0.00015 J	<0.0002	0.00014J	<0.0002	0.00023	0.0001J	<0.0002	<0.0002
Nickel									0.001J	0.0046J	<0.04				
Potassium									6.9	8.71	7.33				
Selenium		ND	ND	0.0029 BJ			<0.096	<0.11	<0.04	<0.08	<0.04				
Silver		ND	ND	<0.0005				<0.0009	<0.01	0.0036J	<0.01				
Sodium									21.6	56.5	27.9				
Thallium									<0.02	<0.02	0.0033J				
Vanadium									0.03	0.059	0.051				
Zinc									<0.02	0.019J	<0.02				
Aluminum (Dissolved)									<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2
Antimony (Dissolved)									<0.06	<0.06	<0.06	0.0074J	0.02J	<0.06	<0.06
Asenic (Dissolved)									0.0058J	<0.02	<0.01	0.015	<0.05	0.011J	<0.02
Barium (Dissolved)									0.016	0.014	0.013	0.015	0.018J	0.021	0.016
Beryllium (Dissolved)									<0.005	<0.01	<0.005	<0.005	<0.025	<0.004	<0.004
Cadmium (Dissolved)									0.0018J	<0.01	0.0023J	<0.005	<0.025	<0.005	<0.005
Calcium (Dissolved)									611	570	570	628	572	688	544
Chromium (Dissolved)									0.00059J	<0.02	<0.01	0.0019J	<0.05	<0.01	<0.01
Cobalt (Dissolved)									0.00062J	<0.02	0.00093J	0.0015J	<0.05	<0.01	<0.01
Copper (Dissolved)									0.0084J	<0.01	0.011	0.0021J	<0.05	0.013J	<0.02
Iron (Dissolved)									0.074J	<0.2	<0.1	<0.1	<0.5	<0.2	<2
Lead (Dissolved)									<0.015	<0.03	<0.015	0.043	<0.075	<0.015	<0.015
Magnesium (Dissolved)									48	55.1	53.6	66.6	81.5	114	58.4
Manganese (Dissolved)									0.033	0.024	0.036	0.023	0.056J	0.13	0.016
Mercury (Dissolved)									<0.0002	0.00012J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel (Dissolved)									0.00098J	<0.04	0.0011J	<0.04	<0.2	<0.04	<0.04
Potassium (Dissolved)									6.4	6.26	7.72	7.92	7.51	10.5	6.9
Selenium (Dissolved)									<0.04	<0.08	0.004J	<0.04	<0.2	<0.04	<0.04
Silver (Dissolved)									<0.01	0.0039J	<0.01	<0.01	0.004J	<0.01	<0.01
Sodium (Dissolved)									20.4	55.8	29.3	46.1	79.4	142	77.8
Thallium (Dissolved)									<0.02	<0.02	0.0048J	<0.02	<0.1	0.0071J	<0.02
Vanadium (Dissolved)									0.031	0.016J	0.055	0.017J	0.016J	0.054	0.0075J
Zinc (Dissolved)									<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05
Date	**1994**	**Aug-95**	**Sep-97**	**Sep-99**	**Sep-01**	**Apr-03**	**Dec-05**	**Nov-06**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**
4,4-DDD	0.0000042 J	ND	ND	<0.0001				<0.00002							
4,4-DDE	<0.000052	ND	ND	<0.0001				<0.00002							
Aldrin								<0.00002							
Chlordane															
alpha-Chlordane								<0.000015							
gamma-Chlordane				<0.00005				<0.000015							
Dieldrin								<0.000015							
Endosulfan I	<0.000021							<0.000015							
Endosulfan II	<0.00001							<0.00002							
Endosulfan sulfate		ND	ND	<0.0001				<0.00002							
Heptachlor								<0.00002							
Heptachlor epoxide	0.000033	0.00004	ND	<0.00005				<0.000015							
alpha-BHC	<0.000013							<0.000015							
delta-BHC	<0.000023							<0.00002							
gamma-BHC	<0.000013							<0.000015							
1,2-Dichlorobenzene									<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane		0.0051	ND	<0.003	<0.005	<0.001	ND	<0.0005	<0.005	0.00461J	<0.005	<0.005	<0.005	0.00234J	<0.005
1,2-Dichloropropane		ND	ND	<0.003			ND	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane								<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Dichlorobenzene								<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		ND	ND	0.001 J			ND	<0.005	<0.005	0.000759J	<0.005	<0.005	<0.005	<0.005	<0.005
Benzene		ND	ND	<0.003			ND	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane		ND	ND	<0.003			ND	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform		ND	ND	<0.003			ND	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane									<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene		ND	ND				ND	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene								<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform		ND	ND	<0.003			ND	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane									<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane									<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		ND	ND	<0.003			ND	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene		ND	ND				ND	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methylene chloride								<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone								0.0028 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene									<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		ND	ND	<0.003			ND	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene									<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes								<0.001	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Naphthalene		ND	ND				ND	<0.001	0.00249J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Diethyl phthalate								<0.002							
bis(2-Ethylhexyl)phthalate								0.0036 J							

Notes:
Units are in milligrams per liter (mg/L)
B = Analyte detected in laboratory blank analysis
D = Value derived from analysis of diluted sample
J = Detected below the detection limit, an estimated value is shown
ND = Not detected, but detection limit not known
P = Results of dual-column gas chromatograph technique differs by more than 25%
Blank = For 2012 and 2013 events, sample not analyzed. Prior to 2012, samples not analyzed, data not reported, or reporting limit not presented.

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-05	MW-08-06	MW-08-06	MW-08-06	MW-08-06	MW-08-06	MW-08-06	MW-08-06	MW-08-06	MW-08-06	MW-08-06	SD08-MW08-07	MW-08-07	MW-08-07	MW-08-07
Date	**Nov-13**	**1994**	**Dec-05**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Dec-06**	**Jan-12**	**Apr-12**	**Jul-12**
Fluoride				3.09		1.14	0.465J	<5					4.66		3.29
Nitrate	<0.4			19.4		15.9	15.2	19J	18.4	13.2J	16.7		2.36J		0.927J
Nitrate-nitrite															
Chloride				6710		6240	5860	5320					436		446
Sulfate				8170		7970	7070	5390					2230		2230
Total phosphorus															
Aluminum				0.1J	<0.2	<0.2							0.04J	0.25	<0.2
Antimony				<0.06	0.0088J	<0.06							<0.06	<0.06	<0.06
Arsenic				0.0085J	0.012J	0.02						0.0048 J	0.047	0.039	0.043
Barium				0.0066J	0.0093J	0.0023J						0.028 J	0.014	0.016	0.012
Beryllium				<0.005	<0.01	0.0014J							<0.005	<0.01	<0.005
Cadmium				0.00088J	<0.01	0.0044J						<0.001	0.0021J	0.00064J	0.0022J
Calcium				517	539	537							653	630	633
Chromium				<0.01	0.0042J	0.022						0.0007 J	0.0013J	0.0028J	<0.01
Cobalt				<0.01	<0.02	0.00067J							0.0041J	0.0044J	0.0054J
Copper				<0.01	0.022	0.017							0.003J	0.016	0.015
Iron				0.11	0.69	0.073J							<0.1	0.16	0.041J
Lead				<0.015	<0.03	<0.015						0.0018 J	<0.015	<0.03	<0.015
Magnesium				808	922	875							194	185	1.86
Manganese				<0.015	<0.015	<0.015							1.73	1.71	1.95
Mercury	<0.0002			<0.0002	0.00011J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001	<0.0002	0.00008J	<0.0002
Nickel				<0.04	0.0032J	<0.04							0.006J	0.0095J	0.0056J
Potassium				30.9	32.9	30.2							5.45	6.19	4.95
Selenium				<0.04	<0.08	0.016J						<0.0028	<0.04	<0.08	<0.04
Silver				<0.01	0.0042J	<0.01						0.0011 J	<0.01	0.003J	<0.01
Sodium				4870	4710	5550							346	369	402
Thallium				<0.02	<0.02	0.0037J							<0.02	<0.02	<0.02
Vanadium				<0.02	0.12	0.033							0.036	0.089	0.075
Zinc				<0.02	<0.02	0.01J							<0.02	0.013J	<0.02
Aluminum (Dissolved)	<0.2			<0.2	<0.2	<0.2	<0.2	<1	<0.2	<2	<2		<0.2	<0.2	<0.2
Antimony (Dissolved)	<0.06			<0.06	<0.06	<0.06	0.0095J	<0.3	<0.06	<0.6	<0.6		<0.06	<0.06	<0.06
Asenic (Dissolved)	<0.02			0.012	<0.02	0.022	0.013	<0.05	0.023	<0.2	0.072J		0.048	0.029	0.053
Barium (Dissolved)	0.019			0.006J	0.0059J	0.0019J	0.0061J	0.0087J	0.0061J	<0.1	<0.1		0.012	0.01J	0.0093J
Beryllium (Dissolved)	<0.004			<0.005	<0.01	0.0016J	0.00027J	<0.025	<0.004	<0.04	<0.04		<0.005	<0.01	<0.005
Cadmium (Dissolved)	<0.005			0.0011J	<0.01	0.0039J	<0.005	<0.025	<0.005	<0.05	<0.05		0.0022J	<0.01	0.0022J
Calcium (Dissolved)	616			544	476	507	479	535	556	583	494		676	584	648
Chromium (Dissolved)	<0.01			<0.01	<0.02	0.017	0.021	<0.05	<0.01	<0.1	<0.1		0.0012J	<0.02	<0.01
Cobalt (Dissolved)	0.0041J			<0.01	<0.02	0.00077J	0.00069J	<0.05	<0.01	<0.1	<0.1		0.0031J	0.0014J	0.0036J
Copper (Dissolved)	<0.02			<0.01	<0.01	0.017	0.005J	<0.05	<0.02	0.19J	0.26		0.004J	<0.01	0.015
Iron (Dissolved)	1.31			<0.1	<0.01	<0.1	<0.1	<0.5	<0.2	<2	<2		<0.1	<0.1	<0.1
Lead (Dissolved)	0.0062J			<0.015	<0.03	<0.015	<0.015	<0.075	<0.015	<0.15	<0.15		<0.015	<0.03	<0.015
Magnesium (Dissolved)	49.3			852	768	828	753	937	876	1230	838		200	176	189
Manganese (Dissolved)	0.13			<0.015	<0.015	<0.015	<0.015	<0.075	<0.015	<0.15	<0.15		1.33	1.37	1.53
Mercury (Dissolved)	<0.0002			<0.0002	0.00009J	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	0.00012J	<0.0002
Nickel (Dissolved)	<0.04			<0.04	<0.04	<0.04	<0.04	<0.2	<0.04	<0.4	<0.4		0.0061J	0.002J	0.0032J
Potassium (Dissolved)	7.21			31.3	21.7	28	31.9	23.4	26.3	31	23.5		5.85	4.82	5.14
Selenium (Dissolved)	<0.04			<0.04	<0.08	0.02J	<0.04	<0.2	<0.04	<0.4	<0.4		<0.04	<0.08	0.0046J
Silver (Dissolved)	<0.01			<0.01	0.005J	<0.01	<0.01	0.0077J	<0.01	<0.1	<0.1		<0.01	0.0054J	<0.01
Sodium (Dissolved)	22.2			5140	4050	4690	4220	5140	4950	6430	4560		366	524	412
Thallium (Dissolved)	<0.02			<0.02	<0.02	<0.02	0.0037J	0.032J	0.0065J	<0.2	<0.2		<0.02	<0.02	<0.02
Vanadium (Dissolved)	0.013J			<0.02	0.054	0.029	0.037	0.064J	0.1	0.65	0.55		0.035	0.04	0.074
Zinc (Dissolved)	<0.02			<0.02	<0.02	0.008J	<0.02	<0.1	<0.02	<0.2	0.16J		<0.02	<0.02	<0.02

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-05	MW-08-06	MW-08-06	MW-08-06	MW-08-06	MW-08-06	MW-08-06	MW-08-06	MW-08-06	MW-08-06	MW-08-06	SD08-MW08-07	MW-08-07	MW-08-07	MW-08-07
Date	**Nov-13**	**1994**	**Dec-05**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Dec-06**	**Jan-12**	**Apr-12**	**Jul-12**
4,4-DDD		<0.000031										<0.000019			
4,4-DDE		<0.000052										<0.000019			
Aldrin												<0.000019			
Chlordane															
alpha-Chlordane												0.000016 J			
gamma-Chlordane												0.00003 J			
Dieldrin												<0.000015			
Endosulfan I		<0.000021										<0.000015			
Endosulfan II		<0.00001										<0.000019			
Endosulfan sulfate												<0.000019			
Heptachlor												<0.000019			
Heptachlor epoxide		<0.000013										<0.000015			
alpha-BHC		<0.000013										<0.000015			
delta-BHC		0.000003 JB										<0.000019			
gamma-BHC		<0.000013										<0.000015			
1,2-Dichlorobenzene	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0547	0.0343	0.0525	0.0815
1,2-Dichloropropane	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016	0.000783J	0.000915J	0.0013J
1,1,2-Trichloroethane	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.005	<0.005
o-Dichlorobenzene	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.005	<0.005
Acetone	<0.005			<0.005	0.00151J	0.00135J	0.00147J	0.00106J	<0.005	<0.005	<0.005	<0.005	<0.005	0.0017J	<0.005
Benzene	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.005	<0.005
Bromodichloromethane	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.005	<0.005
Bromoform	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.005	<0.005
Bromomethane	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
sec-Butylbenzene	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.005	<0.005
tert-Butylbenzene	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.005	<0.005
Chloroform	<0.005			<0.005	0.000504J	<0.005	0.000621J	<0.005	<0.005	0.000784J	<0.005	<0.0005	<0.005	<0.005	<0.005
Chloromethane	<0.005			<0.005	<0.005	<0.005	0.00261J	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
Dibromochloromethane	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
Ethylbenzene	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.005	<0.005
Methylene chloride	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
Toluene	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.005	<0.005
Trichloroethene	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
Xylenes	<0.015			<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.001	<0.015	<0.015	<0.015
Naphthalene	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.000655J	<0.005	<0.005
Diethyl phthalate												0.0111			
bis(2-Ethylhexyl)phthalate												<0.0025			

Notes:
Units are in milligrams per liter (mg/L)
B = Analyte detected in laboratory blank analysis
D = Value derived from analysis of diluted sample
J = Detected below the detection limit, an estimated value is shown
ND = Not detected, but detection limit not known
P = Results of dual-column gas chromatograph technique differs by more than 25%
Blank = For 2012 and 2013 events, sample not analyzed. Prior to 2012, samples not analyzed, data not reported, or reporting limit not presented.

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-07-a	MW-08-07	MW-08-07-A	MW-08-07	MW-08-07-A	MW-08-07	MW-08-07	MW-08-07	SD08-MW08-08	SD08-MW08-08D (Duplicate)	MW-08-08	MW-08-08	MW-08-08	MW-08-08	MW-08-08
Date	**Jul-12**	**Oct-12**	**Oct-12**	**Jan-13**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Nov-06**	**Nov-06**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**
Fluoride	3.35	2.48	2.94	2.77	2.83								<5	<5	<5
Nitrate	1.26J	0.701J	0.765J	1.31J	1.47J	0.638J	1.69J	1.49			37.8J		25.8	24.4J	33
Nitrate-nitrite															
Chloride	452	485	469	413	389						13500		12400	12300	10300
Sulfate	2270	2300	2240	2150	2150						8900		8070	7540	6390
Total phosphorus															
Aluminum	0.028J										<0.4	0.054J	0.52		
Antimony	<0.06										<0.12	<0.06	<0.12		
Arsenic	0.044								0.0074 J	0.006 J	<0.02	0.0072J	<0.02		
Barium	0.013								0.0411 J	0.046 J	0.0072J	0.012	0.0073J		
Beryllium	<0.005										<0.01	<0.01	<0.01		
Cadmium	0.0021J								<0.0003	0.00043 J	0.00071J	<0.01	0.0014J		
Calcium	607										676	676	752		
Chromium	<0.01								0.00068 J	<0.0006	<0.02	0.0021J	<0.02		
Cobalt	0.0062J										<0.02	0.0012J	0.0016J		
Copper	0.015										<0.02	0.016	0.017J		
Iron	0.064J										<0.2	<0.1	1.29		
Lead	<0.015								<0.0017	<0.0017	<0.03	<0.03	<0.03		
Magnesium	180										1550	1480	1630		
Manganese	1.99										0.19	0.25	0.12		
Mercury	<0.0002	0.00013J	0.00019J	0.0001J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	0.0001J	<0.0002	<0.0002	0.00009J
Nickel	0.0057J										<0.08	0.0034J	<0.08		
Potassium	4.95										44.8	50.5	40.1		
Selenium	<0.04								<0.11	<0.11	<0.08	0.0097J	0.027J		
Silver	<0.01								<0.0009	<0.0009	<0.02	0.0043J	<0.02		
Sodium	402										8080	6460	7010		
Thallium	0.0032J										<0.04	<0.02	0.0095J		
Vanadium	0.074										<0.04	0.085	0.085		
Zinc	<0.02										<0.04	0.03	0.032J		
Aluminum (Dissolved)	0.039J	<0.2	<0.2	<1	<1	<0.2	<0.2	<0.2			<0.4	<0.2	<0.4	<1	<1
Antimony (Dissolved)	0.0043J	0.0098J	0.0093J	0.038J	0.023J	<0.06	<0.06	<0.06			0.0087J	<0.06	<0.12	0.028J	0.033J
Asenic (Dissolved)	0.049	0.066	0.069	<0.05	<0.05	0.056	0.025	0.04			0.01J	<0.02	<0.02	0.045J	<0.05
Barium (Dissolved)	0.0087J	0.01	0.01	0.01J	0.011J	0.01	0.01	0.012			0.0091J	0.0093J	0.0046J	<0.05	0.011J
Beryllium (Dissolved)	<0.005	<0.005	<0.005	<0.025	<0.025	<0.004	<0.004	<0.004			<0.01	<0.01	<0.01	<0.025	<0.025
Cadmium (Dissolved)	0.0019J	<0.005	<0.005	<0.025	<0.025	<0.005	<0.005	<0.005			<0.01	<0.01	0.00033J	<0.025	<0.025
Calcium (Dissolved)	568	628	635	604	536	663	545	575			623	620	662	708	613
Chromium (Dissolved)	0.0004J	0.0055J	0.0062J	<0.05	<0.05	<0.01	<0.01	0.028			0.00088J	<0.02	<0.02	0.029J	<0.05
Cobalt (Dissolved)	0.0036J	0.0046J	0.0052J	0.0051J	0.0034J	0.0032J	<0.01	0.0035J			<0.02	0.0019J	<0.02	<0.05	<0.05
Copper (Dissolved)	0.015	0.0023J	0.0014J	<0.05	<0.05	0.018J	<0.02	0.021			<0.02	0.0076J	0.02	0.0079J	<0.05
Iron (Dissolved)	<0.1	<0.1	<0.1	<0.5	<0.5	<0.2	<0.2	0.067J			<0.2	<0.1	<0.2	<0.5	<0.5
Lead (Dissolved)	<0.015	<0.015	<0.015	<0.075	<0.075	<0.015	<0.015	<0.015			<0.03	<0.03	<0.03	<0.075	<0.075
Magnesium (Dissolved)	178	197	199	201	170	199	168	195			1330	1310	1530	1620	1370
Manganese (Dissolved)	1.44	1.49	1.51	1.39	1.39	1.5	1.16	1.35			0.24	0.22	0.079	0.041J	0.09
Mercury (Dissolved)	<0.0002	<0.0002	<0.0002	<0.0002	0.00009J	<0.0002	<0.0002	<0.0002			<0.0002	0.00011J	<0.0002		0.00011J
Nickel (Dissolved)	0.0044J	<0.04	<0.04	<0.2	<0.2	<0.04	<0.04	<0.04			<0.08	<0.04	<0.08	<0.2	<0.2
Potassium (Dissolved)	5.2	6.23	6.11	4.54	4.18	6.37	5.54	5.57			46.8	41.1	39.8	53.5	33.6
Selenium (Dissolved)	0.0083J	<0.04	<0.04	<0.2	<0.2	<0.04	<0.04	<0.04			<0.08	<0.08	0.018J	<0.2	<0.2
Silver (Dissolved)	<0.01	<0.01	<0.01	0.0049J	0.0066J	<0.01	<0.01	<0.01			<0.02	0.0091J	<0.02	0.018J	0.011J
Sodium (Dissolved)	407	477	460	488	442	569	429	440			7010	6020	7090	7230	7190
Thallium (Dissolved)	<0.02	<0.02	<0.02	<0.1	<0.1	0.0063J	<0.02	0.014J			<0.04	<0.02	0.0076J	<0.1	<0.1
Vanadium (Dissolved)	0.071	0.016J	0.014J	0.011J	0.023J	0.055	0.014J	0.039			<0.04	0.047	0.093	0.11	0.077J
Zinc (Dissolved)	<0.02	<0.02	<0.02	<0.1	<0.1	<0.02	0.0061J	<0.02			<0.04	<0.02	<0.04	<0.1	<0.1

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-07-a	MW-08-07	MW-08-07-A	MW-08-07	MW-08-07-A	MW-08-07	MW-08-07	MW-08-07	SD08-MW08-08	SD08-MW08-08D (Duplicate)	MW-08-08	MW-08-08	MW-08-08	MW-08-08	MW-08-08
Date	**Jul-12**	**Oct-12**	**Oct-12**	**Jan-13**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Nov-06**	**Nov-06**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**
4,4-DDD									<0.00002	<0.00002					
4,4-DDE									<0.00002	<0.00002					
Aldrin									<0.00002	<0.00002					
Chlordane															
alpha-Chlordane									<0.000015	<0.000015					
gamma-Chlordane									<0.000015	<0.000015					
Dieldrin									<0.000015	<0.000015					
Endosulfan I									<0.000015	<0.000015					
Endosulfan II									<0.00002	<0.00002					
Endosulfan sulfate									<0.00002	<0.00002					
Heptachlor									<0.00002	<0.00002					
Heptachlor epoxide									<0.000015	<0.000015					
alpha-BHC									<0.000015	<0.000015					
delta-BHC									<0.00002	<0.00002					
gamma-BHC									<0.000015	<0.000015					
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.026	0.0696	0.0679	0.0446	0.0492	0.0892	0.0399	0.0305	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	0.00165J	0.0016J	0.000941J	0.00119J	0.00134J	0.00112J	0.000809J	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone	<0.005	0.00177J	0.00167J	0.00162J	0.00108J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00101J	<0.005	0.00123J	<0.005
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.0005	<0.0005	<0.0005	<0.005
sec-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00051 J	<0.0005	<0.005	0.000435J	<0.005	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	0.0019J	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Methylene chloride	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.001	<0.001	<0.015	<0.015	<0.015	<0.015	<0.015
Naphthalene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Diethyl phthalate									<0.002	<0.002					
bis(2-Ethylhexyl)phthalate									<0.0025	<0.0025					

Notes:
Units are in milligrams per liter (mg/L)
B = Analyte detected in laboratory blank analysis
D = Value derived from analysis of diluted sample
J = Detected below the detection limit, an estimated value is shown
ND = Not detected, but detection limit not known
P = Results of dual-column gas chromatograph technique differs by more than 25%
Blank = For 2012 and 2013 events, sample not analyzed. Prior to 2012, samples not analyzed, data not reported, or reporting limit not presented.

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-08	MW-08-08	MW-08-08	HSTE-10	S10-MW01	S10-MW01	S10-MW01	S10-MW01-A	S10-MW01	S10-MW01	S10-MW01-A	S10-MW01	S10-MW01-A	S10-MW01	S10-MW01
Date	**Apr-13**	**Jul-13**	**Nov-13**	**1994**	**Nov-06**	**Apr-12**	**May-12**	**May-12**	**Jul-12**	**Oct-12**	**Oct-12**	**Jan-13**	**Jan-13**	**Apr-13**	**Jul-13**
Fluoride						3.34			2.81	1.83J	1.69J	2.49	2.43		
Nitrate	38	15.9J	14.1			5.42J			4.44J	4.28J	4.48J	4.97J	5.06J	3.79J	4.1J
Nitrate-nitrite						<25									
Chloride						3330			3860	3770	4180	2390	2350		
Sulfate						5940			6190	5790	6010	4950	4850		
Total phosphorus															
Aluminum						<0.2			<0.2						
Antimony						<0.06			<0.06						
Arsenic					0.0076 J	<0.02			0.012						
Barium					0.0208 J	0.008J			0.0046J						
Beryllium						<0.01			<0.005						
Cadmium					0.0016 J	<0.01			0.0014J						
Calcium						520			475						
Chromium					0.0038 J	<0.02			<0.01						
Cobalt						0.0027J			0.00094J						
Copper						0.006J			0.012						
Iron						0.26			<0.1						
Lead					<0.0017	<0.03			<0.015						
Magnesium						499			586						
Manganese						0.29			0.23						
Mercury	<0.0002	0.00011J	<0.0002		0.00022 J	<0.0002			<0.0002	0.00016J	0.00023	<0.0002	0.00008J	<0.0002	<0.0002
Nickel						<0.04			0.0035J						
Potassium						15.3			22.5						
Selenium					<0.056	<0.08			0.007J						
Silver					<0.0009	<0.01			<0.01						
Sodium						2250			3170						
Thallium						0.0074J			0.003J						
Vanadium						0.076			0.087						
Zinc						<0.02			<0.02						
Aluminum (Dissolved)	<2	<1	<2			<0.2			<0.2	<0.2	<0.2	<1	<1	<0.2	<0.2
Antimony (Dissolved)	<0.6	<0.3	<0.6			<0.06			<0.06	0.0099J	0.0083J	<0.3	0.039J	<0.06	<0.06
Asenic (Dissolved)	<0.2	<0.1	<0.2			<0.02			0.0087J	0.018	0.022	<0.05	<0.05	0.031	<0.02
Barium (Dissolved)	<0.1	<0.05	<0.1			0.0075J			0.0043J	0.0065J	0.0052J	0.0074J	0.0073J	0.0074J	0.0071J
Beryllium (Dissolved)	<0.04	<0.02	<0.04			<0.01			<0.005	<0.005	<0.005	<0.025	<0.025	<0.004	<0.004
Cadmium (Dissolved)	<0.05	<0.025	<0.05			<0.01			0.0011J	<0.005	<0.005	<0.025	<0.025	<0.005	<0.005
Calcium (Dissolved)	841	644	708			471			479	540	495	504	500	579	461
Chromium (Dissolved)	<0.1	<0.05	<0.1			<0.02			<0.01	0.02	0.018	<0.05	<0.05	<0.01	<0.01
Cobalt (Dissolved)	<0.1	<0.05	<0.1			<0.02			0.00067J	0.0019J	0.0017J	<0.05	<0.05	<0.01	<0.01
Copper (Dissolved)	0.24	<0.1	<0.2			<0.01			0.014	0.0078J	0.0075J	<0.05	<0.05	0.013J	<0.02
Iron (Dissolved)	<2	<4	<2			<0.1			<0.1	<0.1	<0.1	<0.5	<0.5	<0.2	<2
Lead (Dissolved)	<0.15	<0.075	<0.15			<0.03			<0.015	<0.015	<0.015	<0.075	<0.075	<0.015	<0.015
Magnesium (Dissolved)	1620	1770	1210			458			541	665	575	493	477	534	571
Manganese (Dissolved)	<0.15	0.095	0.89			0.24			0.21	0.21	0.2	0.25	0.26	0.35	0.16
Mercury (Dissolved)	<0.0002	0.0001J	<0.0002			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	0.00012J	<0.0002	<0.0002
Nickel (Dissolved)	<0.4	<0.2	<0.4			<0.04			0.0034J	<0.04	<0.04	<0.2	<0.2	<0.04	<0.04
Potassium (Dissolved)	44.9	39.9	49.9			14.8			20.5	28.4	24.9	15.2	16	20.8	20.8
Selenium (Dissolved)	<0.4	<0.2	<0.4			<0.08			<0.04	<0.04	<0.04	<0.2	<0.2	<0.04	<0.04
Silver (Dissolved)	<0.1	<0.05	0.035J			<0.01			<0.01	<0.01	<0.01	0.0065J	0.0086J	<0.01	<0.01
Sodium (Dissolved)	7330	7730	5200			2020			3110	3600	2970	2370	2490	2620	2860
Thallium (Dissolved)	<0.2	<0.1	<0.2			<0.02			0.007J	<0.02	<0.02	<0.1	0.024J	0.0079J	<0.02
Vanadium (Dissolved)	0.63	<0.1	0.15J			0.057			0.088	0.055	0.05	0.0055J	0.076J	0.098	0.039
Zinc (Dissolved)	<0.2	<0.1	<0.2			<0.02			<0.02	<0.02	<0.02	<0.1	<0.1	<0.02	<0.02

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-08	MW-08-08	MW-08-08	HSTE-10	S10-MW01	S10-MW01	S10-MW01	S10-MW01-A	S10-MW01	S10-MW01	S10-MW01-A	S10-MW01	S10-MW01-A	S10-MW01	S10-MW01
Date	**Apr-13**	**Jul-13**	**Nov-13**	**1994**	**Nov-06**	**Apr-12**	**May-12**	**May-12**	**Jul-12**	**Oct-12**	**Oct-12**	**Jan-13**	**Jan-13**	**Apr-13**	**Jul-13**
4,4-DDD				0.000014 J	<0.00002										
4,4-DDE				<0.000052	<0.00002										
Aldrin					<0.00002										
Chlordane															
alpha-Chlordane					<0.000015										
gamma-Chlordane					<0.000015										
Dieldrin					<0.000015										
Endosulfan I				<0.000021	<0.000015										
Endosulfan II				<0.00001	<0.00002										
Endosulfan sulfate					<0.00002										
Heptachlor					<0.00002										
Heptachlor epoxide				<0.000013	<0.000015										
alpha-BHC				<0.000013	<0.000015										
delta-BHC				0.0000051 JB	<0.00002										
gamma-BHC				<0.000013	<0.000015										
1,2-Dichlorobenzene	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005	<0.005	<0.005		0.003	0.0152	0.0202	0.0141	0.0174	0.0156	0.0154	0.0128	0.0135	0.016	0.0127
1,2-Dichloropropane	<0.005	<0.005	<0.005		<0.0005	<0.005	<0.005	<0.005	<0.005	0.000582J	0.000566J	<0.005	<0.005	<0.005	0.000269J
1,1,2-Trichloroethane	<0.005	<0.005	<0.005		<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Dichlorobenzene	<0.005	<0.005	<0.005		<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone	<0.005	<0.005	<0.005		0.0095 J	0.000587J	<0.005	<0.005	<0.005	0.00114J	<0.005	<0.005	0.00126J	<0.005	<0.005
Benzene	<0.005	<0.005	0.00123J		<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane	<0.005	<0.005	<0.005		<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005		<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005			<0.005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene	<0.005	<0.005	<0.005		<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	<0.005	<0.005	<0.005		<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005		<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005		<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005		<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methylene chloride	<0.005	<0.005	<0.005		<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005		<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005		<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005			0.000581J	0.00174J	0.000733J	0.00121J	0.00216J	0.00204J	<0.005	<0.005	<0.005	0.000443J
Xylenes	<0.015	<0.015	<0.015		<0.001	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Naphthalene	<0.005	<0.005	<0.005		<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Diethyl phthalate					<0.002										
bis(2-Ethylhexyl)phthalate					<0.0025										

Notes:
Units are in milligrams per liter (mg/L)
B = Analyte detected in laboratory blank analysis
D = Value derived from analysis of diluted sample
J = Detected below the detection limit, an estimated value is shown
ND = Not detected, but detection limit not known
P = Results of dual-column gas chromatograph technique differs by more than 25%
Blank = For 2012 and 2013 events, sample not analyzed. Prior to 2012, samples not analyzed, data not reported, or reporting limit not presented.

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	S10-MW01-A	S10-MW01	S10-MW02	S10-MW02	S10-MW02	S10-MW06	S10-MW06	S10-MW06	S10-MW06	S10-MW06	S10-MW06-A	S10-MW06	SWMU183-MW03	SWMU183-MW03	SWMU183-MW03
Date	**Jul-13**	**Nov-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Jul-13**	**Nov-13**	**Apr-12**	**Jul-12**	**Oct-12**
Fluoride							0.638J	1.23J					1.67	1.44	1.44J
Nitrate	4.23J	5.62	13	10.7	16.8		47.1	47.5	49.3	46.7	45.7	43.2	64.2	55.9	47.9
Nitrate-nitrite															
Chloride							2280	2430					930	907	1010
Sulfate							6860	7320					2780	2780	2960
Total phosphorus															
Aluminum													0.077J	0.18J	
Antimony													<0.06	<0.06	
Arsenic													<0.02	<0.01	
Barium													0.011	0.011	
Beryllium													<0.01	<0.005	
Cadmium													<0.01	0.0011J	
Calcium													547	524	
Chromium													0.0024J	0.0005J	
Cobalt													<0.02	0.0012J	
Copper													0.022	0.015	
Iron													<0.1	0.18	
Lead													<0.03	<0.015	
Magnesium													206	198	
Manganese													0.84	0.78	
Mercury	<0.0002	<0.0002	<0.0002	0.00012J	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00014J	<0.0002	0.00017J
Nickel													0.0057J	0.0025J	
Potassium													7.36	6.44	
Selenium													0.0089J	0.018J	
Silver													0.0038J	<0.01	
Sodium													736	790	
Thallium													<0.02	0.0047J	
Vanadium													0.089	0.073	
Zinc													0.017J	<0.02	
Aluminum (Dissolved)	<0.2	<2	<0.2	<0.2	<0.2		0.13J	<1	<0.2	<2	<2	<2	<0.2	<0.2	<0.2
Antimony (Dissolved)	<0.06	<0.6	<0.06	<0.06	<0.06		<0.06	0.039J	<0.06	<0.6	<0.6	<0.6	<0.06	<0.06	0.0087J
Asenic (Dissolved)	<0.02	<0.2	0.016J	0.0071J	0.013J		0.021	<0.05	0.028	<0.2	<0.2	<0.2	<0.02	<0.01	0.012
Barium (Dissolved)	0.0063J	<0.1	0.0079J	0.0082J	0.011		0.0047J	0.0082J	0.0073J	<0.1	<0.1	<0.1	0.0088J	0.0085J	0.0093J
Beryllium (Dissolved)	<0.004	<0.04	<0.004	<0.004	<0.004		0.00017J	<0.025	<0.004	<0.04	<0.04	<0.04	<0.01	<0.005	<0.005
Cadmium (Dissolved)	<0.005	<0.05	<0.005	<0.005	<0.005		<0.005	<0.025	<0.005	<0.05	<0.05	<0.05	<0.01	0.0012J	<0.005
Calcium (Dissolved)	443	488	567	507	533		406	441	472	439	462	435	531	527	523
Chromium (Dissolved)	<0.01	<0.1	<0.01	<0.01	0.027		0.017	<0.05	<0.01	<0.1	<0.1	<0.1	<0.02	<0.01	0.0073J
Cobalt (Dissolved)	<0.01	<0.1	<0.01	<0.01	<0.01		<0.01	<0.05	<0.01	<0.1	<0.1	<0.1	<0.02	0.00079J	0.0015J
Copper (Dissolved)	<0.02	0.21	0.016J	0.018J	0.021		0.0019J	<0.05	0.011J	0.15J	0.15J	0.18J	<0.01	0.015	0.0037J
Iron (Dissolved)	<2	<2	<0.2	<0.2	<0.2		<0.1	<0.5	<0.2	<2	<2	<2	<0.1	<0.1	<0.1
Lead (Dissolved)	<0.015	<0.15	<0.15	<0.015	<0.015		<0.015	<0.075	<0.015	<0.15	<0.15	<0.15	<0.03	<0.015	<0.015
Magnesium (Dissolved)	521	528	250	257	194		524	610	639	588	654	598	201	201	199
Manganese (Dissolved)	0.16	0.28	<0.015	<0.015	<0.015		0.07	0.084	0.059	0.19	0.14J	0.15	0.82	0.79	0.8
Mercury (Dissolved)	0.00009J	<0.0002	<0.0002	0.000096J	<0.0002			0.00011J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel (Dissolved)	<0.04	<0.4	<0.04	<0.04	<0.04		<0.04	<0.2	<0.04	<0.4	<0.4	<0.4	<0.04	0.0016J	<0.04
Potassium (Dissolved)	19.8	16.4	17.5	14.1	22.6		43.5	30.3	37.9	29.4	31.3	32.5	5.91	6.75	7.33
Selenium (Dissolved)	<0.04	<0.4	<0.04	<0.04	<0.04		<0.04	<0.2	<0.04	<0.4	<0.4	<0.4	<0.08	0.012J	<0.04
Silver (Dissolved)	<0.01	<0.1	<0.01	<0.01	<0.01		<0.01	0.011J	<0.01	<0.1	<0.1	<0.1	0.0046J	<0.01	<0.01
Sodium (Dissolved)	2580	2580	102	102	65.2		3040	3330	3600	3210	2470	3320	1080	809	972
Thallium (Dissolved)	<0.02	<0.2	<0.02	<0.02	0.0083J		<0.02	<0.1	0.005J	<0.2	<0.2	<0.2	<0.02	0.0042J	<0.02
Vanadium (Dissolved)	0.039	0.53	0.09	0.1	0.075		0.044	0.081J	0.11	0.45	0.46	0.49	0.03	0.073	0.024
Zinc (Dissolved)	<0.02	<0.2	<0.02	<0.02	<0.02		<0.02	<0.1	<0.02	<0.2	<0.2	<0.2	<0.02	<0.02	<0.02

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	S10-MW01-A	S10-MW01	S10-MW02	S10-MW02	S10-MW02	S10-MW06	S10-MW06	S10-MW06	S10-MW06	S10-MW06	S10-MW06-A	S10-MW06	SWMU183-MW03	SWMU183-MW03	SWMU183-MW03
Date	**Jul-13**	**Nov-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Jul-13**	**Nov-13**	**Apr-12**	**Jul-12**	**Oct-12**
4,4-DDD															
4,4-DDE															
Aldrin															
Chlordane															
alpha-Chlordane															
gamma-Chlordane															
Dieldrin															
Endosulfan I															
Endosulfan II															
Endosulfan sulfate															
Heptachlor															
Heptachlor epoxide															
alpha-BHC															
delta-BHC															
gamma-BHC															
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.0124	0.022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	0.000456J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00121J	<0.005	<0.005	<0.005	<0.005	<0.005	0.00162J	<0.005	0.00118J
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00352
sec-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00106J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methylene chloride	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	0.00238J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Naphthalene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Diethyl phthalate															
bis(2-Ethylhexyl)phthalate															

Notes:
Units are in milligrams per liter (mg/L)
B = Analyte detected in laboratory blank analysis
D = Value derived from analysis of diluted sample
J = Detected below the detection limit, an estimated value is shown
ND = Not detected, but detection limit not known
P = Results of dual-column gas chromatograph technique differs by more than 25%
Blank = For 2012 and 2013 events, sample not analyzed. Prior to 2012, samples not analyzed, data not reported, or reporting limit not presented.

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SWMU183-MW03	SWMU183-MW03	SWMU183-MW03	SWMU183-MW03	SD08-MW10	SD08-MW10	SD08-MW11	SD08-MW11	SD08-MW12	SD08-MW12	SD08-MW13	SD08-MW13	SD08-MW13A
Date	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Jul-13**	**Nov-13**	**Jul-13**	**Nov-13**	**Jul-13**	**Nov-13**	**Jul-13**	**Nov-13**	**Nov-13**
Fluoride	1.69J												
Nitrate	34	36.1	24.2	23	<0.5	<1	<25	<10	4.95J	21.7	9.74J	12.9	11.9
Nitrate-nitrite													
Chloride	929												
Sulfate	3170												
Total phosphorus													
Aluminum													
Antimony													
Arsenic													
Barium													
Beryllium													
Cadmium													
Calcium													
Chromium													
Cobalt													
Copper													
Iron													
Lead													
Magnesium													
Manganese													
Mercury	0.00008J	<0.0002	<0.0002	<0.0002	0.0001J	<0.0002	0.000097J	<0.0002	<0.0002	<0.0002	0.00011J	<0.0002	<0.0002
Nickel													
Potassium													
Selenium													
Silver													
Sodium													
Thallium													
Vanadium													
Zinc													
Aluminum (Dissolved)	<1	<0.2	<0.2	<2	0.064J	<0.2	<2	<2	0.5J	<2	<1	<2	<2
Antimony (Dissolved)	0.019J	<0.06	<0.06	0.23J	<0.06	<0.06	<0.6	<0.6	<0.6	<0.6	<0.3	<0.6	<0.6
Asenic (Dissolved)	<0.05	0.016J	<0.02	<0.2	0.043	0.035	<0.2	<0.2	0.064J	<0.2	<0.1	<0.2	<0.2
Barium (Dissolved)	0.0099J	0.0089J	0.011	<0.1	0.019	0.023	0.029J	0.026J	0.026J	<0.1	<0.05	<0.1	<0.1
Beryllium (Dissolved)	<0.025	<0.004	<0.004	<0.04	<0.004	<0.004	<0.04	<0.04	<0.04	<0.04	<0.02	<0.04	<0.04
Cadmium (Dissolved)	<0.025	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.05	<0.05	<0.05	<0.025	<0.05	<0.05
Calcium (Dissolved)	493	507	482	499	473	505	491	487	753	593	604	655	674
Chromium (Dissolved)	<0.05	<0.01	<0.01	<0.1	<0.01	0.024	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1
Cobalt (Dissolved)	<0.05	<0.01	<0.01	<0.1	0.0051J	0.0057J	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1
Copper (Dissolved)	<0.05	0.018J	<0.02	0.2	0.016J	0.022	0.2	0.2	0.24	0.37	0.096J	0.35	0.32
Iron (Dissolved)	<0.5	<0.2	<0.2	<2	0.54	1.27	<2	<2	<2	<2	<1	<2	<2
Lead (Dissolved)	<0.075	<0.015	<0.015	<0.15	<0.015	<0.015	<0.15	0.04J	<0.15	<0.15	<0.075	<0.15	<0.15
Magnesium (Dissolved)	189	198	230	237	261	259	1000	875	3520	2890	1800	2200	2270
Manganese (Dissolved)	0.67	0.7	1.13	0.92	2.13	2.57	2.57	2.3	0.069J	0.066J	<0.075	<0.15	<0.15
Mercury (Dissolved)	0.00011J	<0.0002	<0.0002	<0.0002	0.0001J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000091J	<0.0002	<0.0002
Nickel (Dissolved)	<0.2	<0.04	<0.04	<0.4	<0.04	<0.04	<0.4	<0.4	<0.4	<0.4	<0.2	<0.4	<0.4
Potassium (Dissolved)	5.92	6.94	7.98	6.68	5.28	5.77	23.9	23.4	85.3	85.1	57	67	68.6
Selenium (Dissolved)	<0.2	<0.04	<0.04	<0.4	<0.04	<0.04	<0.4	<0.4	<0.4	<0.4	<0.2	<0.4	<0.4
Silver (Dissolved)	<0.05	<0.01	<0.01	0.047J	<0.01	<0.01	<0.1	0.04J	<0.1	<0.1	<0.05	<0.1	<0.1
Sodium (Dissolved)	1140	1190	1110	3740	296	226	5450	4670	14300	15300	8230	10600	10500
Thallium (Dissolved)	0.021J	0.0059J	<0.02	<0.2	<0.02	0.011J	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2
Vanadium (Dissolved)	0.012J	0.07	0.015J	0.094J	0.061	0.018J	0.58	0.13J	0.83	0.6	0.4	0.63	0.63
Zinc (Dissolved)	<0.1	<0.02	0.0053J	<0.2	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2

Table 8-2(a)
Comprehensive Groundwater Analytical Data Showing Chemicals Detected in at Least One Sample
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SWMU183-MW03	SWMU183-MW03	SWMU183-MW03	SWMU183-MW03	SD08-MW10	SD08-MW10	SD08-MW11	SD08-MW11	SD08-MW12	SD08-MW12	SD08-MW13	SD08-MW13	SD08-MW13A
Date	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Jul-13**	**Nov-13**	**Jul-13**	**Nov-13**	**Jul-13**	**Nov-13**	**Jul-13**	**Nov-13**	**Nov-13**
4,4-DDD													
4,4-DDE													
Aldrin													
Chlordane													
alpha-Chlordane													
gamma-Chlordane													
Dieldrin													
Endosulfan I													
Endosulfan II													
Endosulfan sulfate													
Heptachlor													
Heptachlor epoxide													
alpha-BHC													
delta-BHC													
gamma-BHC													
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0805	0.0773	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00537	0.00473J	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone	<0.005	<0.005	<0.005	<0.005	0.00143J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzene	<0.005	<0.005	<0.005	0.00128J	0.0584	0.0629	<0.005	0.00138J	<0.005	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene	<0.005	<0.005	<0.005	0.00175J	<0.005	0.00283J	<0.005	0.001J	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	0.00614	0.00194J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	0.00458J	0.0143	0.00128J	0.00138J	<0.005	<0.005	<0.005	<0.005	<0.005
Methylene chloride	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	0.00779	0.0306	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Naphthalene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Diethyl phthalate													
bis(2-Ethylhexyl)phthalate													

Notes:
Units are in milligrams per liter (mg/L)
B = Analyte detected in laboratory blank analysis
D = Value derived from analysis of diluted sample
J = Detected below the detection limit, an estimated value is shown
ND = Not detected, but detection limit not known
P = Results of dual-column gas chromatograph technique differs by more than 25%
Blank = For 2012 and 2013 events, sample not analyzed. Prior to 2012, samples not analyzed, data not reported, or reporting limit not presented.

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-01 (Avg)	MW-08-01 (Avg)	MW-08-01	MW-08-01	MW-08-01	MW-08-01 (Avg)	MW-08-01	MW-08-01 (Avg)	MW-08-02	MW-08-02	MW-08-02	MW-08-02	MW-08-02	MW-08-02 (Avg)	MW-08-02
Date	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**
Fluoride	5.705		5.41	3.38	3.28				7.31		4.12	3.53	3.94		
Nitrate	<10		<5	<2.5	<5	<5	<5	<2	0.09J		<2.5	<2.5	0.132J	<0.5	<2.5
Chloride	620.5		519	563	556				73.1		119	101	116		
Sulfate	6,255		5,540	5,780	5,470				2,160		1,960	1,890	1,940		
Mercury	<0.0002	0.000095	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00011J	<0.0002	<0.0002	0.00008J	<0.0002	<0.0002
Aluminum (Dissolved)	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<2	0.16J	<0.2	<0.2	<0.2	<1	<0.2	<0.2
Antimony (Dissolved)	<0.06	<0.06	<0.06	0.011J	0.02J	<0.06	<0.06	<0.6	<0.06	<0.06	<0.06	<0.06	0.032J	<0.06	<0.06
Asenic (Dissolved)	0.0051	<0.02	0.0037J	<0.01	<0.05	0.014	<0.02	<0.2	0.026	0.013J	0.03	0.04	<0.05	0.032	<0.02
Barium (Dissolved)	0.011	0.0095	0.0093J	0.012	0.01J	0.013	0.0089J	<0.1	0.013	0.0093J	0.012	0.011	0.012J	0.0125	0.012
Beryllium (Dissolved)	<0.005	<0.01	<0.005	<0.005	<0.025	<0.004	<0.004	<0.04	<0.005	<0.01	0.00086J	0.00071J	<0.025	<0.004	<0.004
Cadmium (Dissolved)	0.0029	<0.01	0.0026J	<0.005	<0.025	<0.005	<0.005	<0.05	0.0021J	<0.01	<0.005	<0.005	<0.025	<0.005	<0.005
Calcium (Dissolved)	496	461.5	475	520	420	523.5	387	483.5	606	557	553	569	562	622	470
Chromium (Dissolved)	<0.01	<0.02	<0.01	0.019	<0.05	<0.01	<0.01	<0.1	0.0011J	<0.02	0.0014J	0.0074J	<0.05	<0.01	<0.01
Cobalt (Dissolved)	<0.01	<0.02	0.00075J	<0.01	<0.05	<0.01	<0.01	<0.1	0.0025J	<0.02	0.0054J	0.0035J	<0.05	<0.01	<0.01
Copper (Dissolved)	<0.01	<0.01	0.0072J	0.0038J	<0.05	0.0068	<0.02	<0.2	0.0047J	<0.01	<0.01	<0.01	<0.05	0.019	0.02
Iron (Dissolved)	7.47	5.335	5.17	5.52	6.07	7.38	7.11	8.035	0.52	0.33	1.53	0.92	0.66	0.74	0.9
Lead (Dissolved)	<0.015	<0.03	<0.015	<0.015	<0.075	<0.015	<0.015	<0.15	<0.015	<0.03	<0.015	<0.015	<0.075	<0.015	<0.015
Magnesium (Dissolved)	607	580	590	649	515	629.5	519	595	161	152	147	151	147	166.5	155
Manganese (Dissolved)	2.575	1.82	1.71	1.66	1.84	2.385	2.47	2.605	1.03	0.8	2.19	1.15	1.02	1.155	1.08
Mercury (Dissolved)	<0.0002	0.000075	<0.0002	<0.0002	0.00011J	<0.0002	<0.0002	<0.0002	0.0001J	0.00011J	<0.0002		0.00012J	0.000085	<0.0002
Nickel (Dissolved)	<0.04	<0.04	<0.04	<0.04	<0.2	<0.04	<0.04	<0.4	0.0036J	<0.04	0.0019J	<0.04	<0.2	<0.04	<0.04
Potassium (Dissolved)	6.32	4.5	5.24	6.4	4.28	6.295	6.2	4.78	3.57	3.03	3.42	4.32	3.01	3.485	3.78
Selenium (Dissolved)	<0.04	<0.08	<0.04	<0.04	<0.2	<0.04	<0.04	<0.4	<0.04	<0.08	<0.04	<0.04	<0.2	<0.04	<0.04
Silver (Dissolved)	<0.01	0.0047	<0.01	<0.01	<0.05	<0.01	<0.01	0.0465	<0.01	0.0036J	<0.01	<0.01	0.0046J	<0.01	<0.01
Sodium (Dissolved)	1,935	1,605	1,760	1,740	1,580	1,855	1,780	1,800	90.5	114	113	116	119	146	193
Thallium (Dissolved)	<0.02	<0.02	0.005J	<0.02	0.035J	<0.02	<0.02	<0.2	<0.02	<0.02	<0.02	0.0044J	<0.1	0.00755	<0.02
Vanadium (Dissolved)	<0.02	0.011	0.032	0.0035J	<0.1	0.047	<0.02	0.0735	0.021	0.021	0.0065J	<0.02	0.015J	0.0485	<0.02
Zinc (Dissolved)	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	0.076	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0002575	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.0425	0.02795	0.0163	0.0293	0.0238	0.02755	0.0454	0.03415	0.00782	0.0112	0.00498J	0.0145	0.0639	0.005315	0.0108
1,2-Dichloropropane	0.00631	0.005545	0.00298J	0.00558	0.00497J	0.005585	0.00672	0.00586	<0.005	<0.005	<0.005	<0.005	0.00138J	<0.005	<0.005
Acetone	0.010035	0.06045	<0.005	0.00687	0.00698	0.004845	0.00478J	0.005145	<0.005	0.0026J	<0.005	0.00156J	0.00195J	<0.005	<0.005
Benzene	0.000536	0.000385	<0.005	<0.005	0.000584J	0.0004575	0.000778J	0.000892	0.00026J	0.000211J	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene	0.0008325	0.003195	<0.005	<0.005	<0.005	0.003565	0.000604J	0.0003555	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	0.001005	0.003745	<0.005	0.000806J	0.000784J	0.003805	0.000984J	0.0008345	0.000475J	<0.005	<0.005	<0.005	0.000406J	<0.005	0.000349J
Chloroform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00241J	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000473J	0.0005305	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	0.03625	<0.005	<0.005	0.0392	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005	<0.005	0.0392	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:
Units are in milligrams per liter (mg/L)
J = Detected below the detection limit, an estimated value is shown

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-02	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04	MW-08-04
Date	**Nov-13**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**
Fluoride		2.95		2.21	3.11J	1.51J				2.26		1.26	0.901J	1.02	
Nitrate	<1	16.6		11.7	12.3	14.2	20J	10.8	11.6	4.97J		4.18J	4.19J	6.2	5.82
Chloride		4030		4100	5180	4150				477		457	513	583	
Sulfate		4890		5060	5970	4960				3550		2950	3130	2690	
Mercury	<0.0002	<0.0002	0.00013J	<0.0002	<0.0002	0.00008J	<0.0002	<0.0002	<0.0002	<0.0002	0.0001J	<0.0002	<0.0002	<0.0002	<0.0002
Aluminum (Dissolved)	<0.2	<0.2	<0.2	0.035J	0.13J	<1	<2	<0.2	<2	0.12J	<0.2	0.034J	0.073J	<1	<0.2
Antimony (Dissolved)	<0.06	<0.06	<0.06	<0.06	0.0041J	0.026J	<0.6	<0.06	<0.6	<0.06	<0.06	<0.06	<0.06	<0.3	<0.06
Asenic (Dissolved)	0.014J	0.014	<0.02	0.022	0.019	<0.05	<0.2	<0.02	<0.2	<0.01	<0.02	0.0092J	0.0039J	<0.05	0.013J
Barium (Dissolved)	0.015	0.0051J	0.0044J	<0.01	0.0044J	0.0062J	<0.1	0.0039J	<0.1	0.01	0.008J	0.0088J	0.011	0.012J	0.014
Beryllium (Dissolved)	<0.004	<0.005	<0.01	0.0012J	0.00026J	<0.025	<0.04	<0.004	<0.04	<0.005	<0.01	<0.005	0.00042J	0.00062J	<0.004
Cadmium (Dissolved)	<0.005	0.0024J	<0.01	0.0028J	<0.005	<0.025	<0.05	<0.005	<0.05	<0.005	<0.01	0.0009J	<0.005	<0.025	<0.005
Calcium (Dissolved)	593	593	512	569	548	542	729	458	540	498	456	486	456	461	549
Chromium (Dissolved)	0.029	0.00046J	<0.02	<0.01	0.019	<0.05	<0.1	<0.01	<0.1	0.0013J	<0.02	<0.01	0.011	<0.05	<0.01
Cobalt (Dissolved)	0.0042J	<0.01	<0.02	0.00052J	0.0006J	<0.05	<0.1	<0.01	<0.1	<0.01	<0.02	<0.01	0.00088J	<0.05	<0.01
Copper (Dissolved)	0.021	0.002J	<0.01	0.0024J	0.0016J	<0.05	0.26	<0.02	<0.2	0.0058J	<0.01	0.013	<0.01	<0.05	0.019J
Iron (Dissolved)	1.15	<0.1	<0.1	<0.1	<0.1	<0.5	<2	<0.2	<2	<0.1	<0.1	<0.1	<0.1	<0.5	<0.2
Lead (Dissolved)	<0.015	<0.015	<0.03	<0.015	<0.015	<0.075	<0.15	<0.015	<0.15	<0.015	<0.03	<0.015	<0.015	<0.075	<0.015
Magnesium (Dissolved)	167	660	533	691	680	701	1,790	588	719	279	245	259	247	255	300
Manganese (Dissolved)	1.62	<0.015	<0.015	<0.015	<0.015	<0.075	<0.15	<0.015	<0.15	<0.015	<0.015	<0.015	<0.015	<0.075	<0.015
Mercury (Dissolved)	<0.0002	<0.0002	0.00013J	<0.0002		0.00009J	<0.0002	<0.0002	<0.0002	<0.0002	0.00012J	<0.0002		<0.0002	<0.0002
Nickel (Dissolved)	<0.04	0.0031J	<0.04	0.0018J	<0.04	<0.2	<0.4	<0.04	<0.4	0.001J	<0.04	<0.04	<0.04	<0.2	<0.04
Potassium (Dissolved)	4.06	21.4	16.4	21.2	29.1	19.6	35.5	20.1	16.6	22.1	16.6	17	20.5	15.1	18.1
Selenium (Dissolved)	<0.04	<0.04	<0.08	0.015J	<0.04	<0.2	<0.4	<0.04	<0.4	<0.04	<0.08	0.0054J	<0.04	<0.2	<0.04
Silver (Dissolved)	<0.01	<0.01	0.0072J	<0.01	<0.01	0.012J	<0.1	<0.01	0.03J	<0.01	0.0077J	<0.01	<0.01	<0.05	<0.01
Sodium (Dissolved)	163	2,370	1,850	2,900	2,820	3,160	8,390	2,520	2,660	836	929	570	655	639	766
Thallium (Dissolved)	0.012J	<0.02	<0.02	0.0095J	<0.02	0.022J	<0.2	<0.02	<0.2	<0.02	<0.02	<0.02	0.0056J	<0.1	<0.02
Vanadium (Dissolved)	0.021	0.0018J	0.063	0.033	0.035	0.072J	0.68	0.029	0.16J	0.044	0.053	0.078	0.027	0.024J	0.091
Zinc (Dissolved)	<0.02	<0.02	<0.02	0.014J	<0.02	<0.1	<0.2	<0.02	<0.2	<0.02	<0.02	<0.02	0.029	<0.1	<0.02
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.00402J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone	<0.005	<0.005	0.00225J	<0.005	0.00136J	0.00147J	<0.005	<0.005	<0.005	<0.005	0.00123J	<0.005	<0.005	0.00171J	<0.005
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	0.00232J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000636J	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	0.00089J	0.000937J	<0.005	0.000578J	<0.005	0.00104J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005	0.00228J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00101J	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	0.00124J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	<0.005	0.00115J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:
Units are in milligrams per liter (mg/L)
J = Detected below the detection limit, an estimated value is shown

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-04	MW-08-04	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-06	MW-08-06	MW-08-06	MW-08-06	MW-08-06
Date	**Jul-13**	**Nov-13**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**
Fluoride			5.35		4.55	4.19	5.03				3.09		1.14	0.465J	<5
Nitrate	6.1	3.9	1.04J		0.434J	<2.5	0.321J	<2.5	0.351J	<0.4	19.4		15.9	15.2	19J
Chloride			27.7		34.2	22.6	59				6710		6240	5860	5320
Sulfate			1800		1590	1640	1630				8170		7970	7070	5390
Mercury	0.0001	<0.0002	<0.0002	0.00014J	<0.0002	0.00023	0.0001J	<0.0002	<0.0002	<0.0002	<0.0002	0.00011J	<0.0002	<0.0002	<0.0002
Aluminum (Dissolved)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
Antimony (Dissolved)	<0.06	<0.06	<0.06	<0.06	<0.06	0.0074J	0.02J	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.0095J	<0.3
Asenic (Dissolved)	<0.02	0.0074J	0.0058J	<0.02	<0.01	0.015	<0.05	0.011J	<0.02	<0.02	0.012	<0.02	0.022	0.013	<0.05
Barium (Dissolved)	0.01	0.011	0.016	0.014	0.013	0.015	0.018J	0.021	0.016	0.019	0.006J	0.0059J	0.0019J	0.0061J	0.0087J
Beryllium (Dissolved)	<0.004	<0.004	<0.005	<0.01	<0.005	<0.005	<0.025	<0.004	<0.004	<0.004	<0.005	<0.01	0.0016J	0.00027J	<0.025
Cadmium (Dissolved)	<0.005	<0.005	0.0018J	<0.01	0.0023J	<0.005	<0.025	<0.005	<0.005	<0.005	0.0011J	<0.01	0.0039J	<0.005	<0.025
Calcium (Dissolved)	483	489	611	570	570	628	572	688	544	616	544	476	507	479	535
Chromium (Dissolved)	<0.01	0.015	0.00059J	<0.02	<0.01	0.0019J	<0.05	<0.01	<0.01	<0.01	<0.01	<0.02	0.017	0.021	<0.05
Cobalt (Dissolved)	<0.01	0.0034J	0.00062J	<0.02	0.00093J	0.0015J	<0.05	<0.01	<0.01	0.0041J	<0.01	<0.02	0.00077J	0.00069J	<0.05
Copper (Dissolved)	<0.02	<0.02	0.0084J	<0.01	0.011	0.0021J	<0.05	0.013J	<0.02	<0.02	<0.01	<0.01	0.017	0.005J	<0.05
Iron (Dissolved)	<2	<0.2	0.074J	<0.2	<0.1	<0.1	<0.5	<0.2	<2	1.31	<0.1	<0.01	<0.1	<0.1	<0.5
Lead (Dissolved)	<0.015	<0.015	<0.015	<0.03	<0.015	0.043	<0.075	<0.015	<0.015	0.0062J	<0.015	<0.03	<0.015	<0.015	<0.075
Magnesium (Dissolved)	292	280	48	55.1	53.6	66.6	81.5	114	58.4	49.3	852	768	828	753	937
Manganese (Dissolved)	<0.015	0.0044J	0.033	0.024	0.036	0.023	0.056J	0.13	0.016	0.13	<0.015	<0.015	<0.015	<0.015	<0.075
Mercury (Dissolved)	<0.0002	<0.0002	<0.0002	0.00012J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00009J	<0.0002		<0.0002
Nickel (Dissolved)	<0.04	<0.04	0.00098J	<0.04	0.0011J	<0.04	<0.2	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.2
Potassium (Dissolved)	15.5	18.4	6.4	6.26	7.72	7.92	7.51	10.5	6.9	7.21	31.3	21.7	28	31.9	23.4
Selenium (Dissolved)	<0.04	<0.04	<0.04	<0.08	0.004J	<0.04	<0.2	<0.04	<0.04	<0.04	<0.04	<0.08	0.02J	<0.04	<0.2
Silver (Dissolved)	<0.01	<0.01	<0.01	0.0039J	<0.01	<0.01	0.004J	<0.01	<0.01	<0.01	<0.01	0.005J	<0.01	<0.01	0.0077J
Sodium (Dissolved)	668	512	20.4	55.8	29.3	46.1	79.4	142	77.8	22.2	5,140	4,050	4,690	4,220	5,140
Thallium (Dissolved)	<0.02	<0.02	<0.02	<0.02	0.0048J	<0.02	<0.1	0.0071J	<0.02	<0.02	<0.02	<0.02	<0.02	0.0037J	0.032J
Vanadium (Dissolved)	0.025	0.047	0.031	0.016J	0.055	0.017J	0.016J	0.054	0.0075J	0.013J	<0.02	0.054	0.029	0.037	0.064J
Zinc (Dissolved)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	0.008J	<0.02	<0.1
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005	<0.005	<0.005	0.00461J	<0.005	<0.005	<0.005	0.00234J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone	<0.005	<0.005	<0.005	0.000759J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00151J	0.00135J	0.00147J	0.00106J
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000504J	<0.005	0.000621J	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00261J	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	<0.005	<0.005	0.00249J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:
Units are in milligrams per liter (mg/L)
J = Detected below the detection limit, an estimated value is shown

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-06	MW-08-06	MW-08-06	MW-08-07	MW-08-07	MW-08-07 (Avg)	MW-08-07 (Avg)	MW-08-07 (Avg)	MW-08-07	MW-08-07	MW-08-07	MW-08-08	MW-08-08	MW-08-08	MW-08-08
Date	**Apr-13**	**Jul-13**	**Nov-13**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**
Fluoride				4.66		3.32	2.71	2.8						<5	<5
Nitrate	18.4	13.2J	16.7	2.36J		1.0935	0.733	1.39	0.638J	1.69J	1.49	37.8J		25.8	24.4J
Chloride				436		449	477	401				13,500		12,400	12,300
Sulfate				2230		2250	2270	2150				8,900		8,070	7,540
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	0.00008J	<0.0002	0.00016	0.0001	<0.0002	<0.0002	<0.0002	<0.0002	0.0001J	<0.0002	<0.0002
Aluminum (Dissolved)	<0.2	<2	<2	<0.2	<0.2	0.039	<0.2	<1	<0.2	<0.2	<0.2	<0.4	<0.2	<0.4	<1
Antimony (Dissolved)	<0.06	<0.6	<0.6	<0.06	<0.06	0.0043	0.00955	0.0305	<0.06	<0.06	<0.06	0.0087J	<0.06	<0.12	0.028J
Asenic (Dissolved)	0.023	<0.2	0.072J	0.048	0.029	0.051	0.0675	<0.05	0.056	0.025	0.04	0.01J	<0.02	<0.02	0.045J
Barium (Dissolved)	0.0061J	<0.1	<0.1	0.012	0.01J	0.009	0.01	0.0105	0.01	0.01	0.012	0.0091J	0.0093J	0.0046J	<0.05
Beryllium (Dissolved)	<0.004	<0.04	<0.04	<0.005	<0.01	<0.005	<0.005	<0.025	<0.004	<0.004	<0.004	<0.01	<0.01	<0.01	<0.025
Cadmium (Dissolved)	<0.005	<0.05	<0.05	0.0022J	<0.01	0.00205	<0.005	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01	0.00033J	<0.025
Calcium (Dissolved)	556	583	494	676	584	608	631.5	570	663	545	575	623	620	662	708
Chromium (Dissolved)	<0.01	<0.1	<0.1	0.0012J	<0.02	0.0004	0.00585	<0.05	<0.01	<0.01	0.028	0.00088J	<0.02	<0.02	0.029J
Cobalt (Dissolved)	<0.01	<0.1	<0.1	0.0031J	0.0014J	0.0036	0.0049	0.00425	0.0032J	<0.01	0.0035J	<0.02	0.0019J	<0.02	<0.05
Copper (Dissolved)	<0.02	0.19J	0.26	0.004J	<0.01	0.015	0.00185	<0.05	0.018J	<0.02	0.021	<0.02	0.0076J	0.02	0.0079J
Iron (Dissolved)	<0.2	<2	<2	<0.1	<0.1	<0.1	<0.1	<0.5	<0.2	<0.2	0.067J	<0.2	<0.1	<0.2	<0.5
Lead (Dissolved)	<0.015	<0.15	<0.15	<0.015	<0.03	<0.015	<0.015	<0.075	<0.015	<0.015	<0.015	<0.03	<0.03	<0.03	<0.075
Magnesium (Dissolved)	876	1,230	838	200	176	183.5	198	185.5	199	168	195	1,330	1,310	1,530	1,620
Manganese (Dissolved)	<0.015	<0.15	<0.15	1.33	1.37	1.485	1.5	1.39	1.5	1.16	1.35	0.24	0.22	0.079	0.041J
Mercury (Dissolved)	<0.0002	<0.0002	<0.0002	<0.0002	0.00012J	<0.0002	<0.0002	0.00009	<0.0002	<0.0002	<0.0002	<0.0002	0.00011J	<0.0002	
Nickel (Dissolved)	<0.04	<0.4	<0.4	0.0061J	0.002J	0.0038	<0.04	<0.2	<0.04	<0.04	<0.04	<0.08	<0.04	<0.08	<0.2
Potassium (Dissolved)	26.3	31	23.5	5.85	4.82	5.17	6.17	4.36	6.37	5.54	5.57	46.8	41.1	39.8	53.5
Selenium (Dissolved)	<0.04	<0.4	<0.4	<0.04	<0.08	0.00645	<0.04	<0.2	<0.04	<0.04	<0.04	<0.08	<0.08	0.018J	<0.2
Silver (Dissolved)	<0.01	<0.1	<0.1	<0.01	0.0054J	<0.01	<0.01	0.00575	<0.01	<0.01	<0.01	<0.02	0.0091J	<0.02	0.018J
Sodium (Dissolved)	4,950	6,430	4,560	366	524	409.5	468.5	465	569	429	440	7,010	6,020	7,090	7,230
Thallium (Dissolved)	0.0065J	<0.2	<0.2	<0.02	<0.02	<0.02	<0.02	<0.1	0.0063J	<0.02	0.014J	<0.04	<0.02	0.0076J	<0.1
Vanadium (Dissolved)	0.1	0.65	0.55	0.035	0.04	0.0725	0.015	0.017	0.055	0.014J	0.039	<0.04	0.047	0.093	0.11
Zinc (Dissolved)	<0.02	<0.2	0.16J	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	0.0061J	<0.02	<0.04	<0.02	<0.04	<0.1
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005	<0.005	<0.005	0.0343	0.0525	0.05375	0.06875	0.0469	0.0892	0.0399	0.0305	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005	0.000783J	0.000915J	0.0019	0.001625	0.0010655	0.00134J	0.00112J	0.000809J	<0.005	<0.005	<0.005	<0.005
Acetone	<0.005	<0.005	<0.005	<0.005	0.0017J	<0.005	0.00172	0.00135	<0.005	<0.005	<0.005	<0.005	0.00101J	<0.005	0.00123J
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0005	<0.0005
sec-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	0.000784J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000435J	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0019J
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	<0.005	<0.005	<0.005	0.000655J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:
Units are in milligrams per liter (mg/L)
J = Detected below the detection limit, an estimated value is shown

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-08	MW-08-08	MW-08-08	MW-08-08	S10-MW01	S10-MW01 (Avg)	S10-MW01	S10-MW01 (Avg)	S10-MW01 (Avg)	S10-MW01	S10-MW01 (Avg)	S10-MW01	S10-MW02	S10-MW02	S10-MW02
Date	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Apr-12**	**May-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Apr-13**	**Jul-13**	**Nov-13**
Fluoride	<5				3.34		2.81	1.76	2.46						
Nitrate	33	38	15.9J	14.1	5.42J		4.44J	4.38	5.015	3.79J	4.165	5.62	13	10.7	16.8
Chloride	10,300				3,330		3,860	3,975	2,370						
Sulfate	6,390				5,940		6,190	5,900	4,900						
Mercury	0.00009J	<0.0002	0.00011J	<0.0002	<0.0002		<0.0002	0.000195	0.00009	<0.0002	<0.0002	<0.0002	<0.0002	0.00012J	<0.0002
Aluminum (Dissolved)	<1	<2	<1	<2	<0.2		<0.2	<0.2	<1	<0.2	<0.2	<2	<0.2	<0.2	<0.2
Antimony (Dissolved)	0.033J	<0.6	<0.3	<0.6	<0.06		<0.06	0.0091	0.0945	<0.06	<0.06	<0.6	<0.06	<0.06	<0.06
Asenic (Dissolved)	<0.05	<0.2	<0.1	<0.2	<0.02		0.0087J	0.02	<0.05	0.031	<0.02	<0.2	0.016J	0.0071J	0.013J
Barium (Dissolved)	0.011J	<0.1	<0.05	<0.1	0.0075J		0.0043J	0.00585	0.00735	0.0074J	0.0067	<0.1	0.0079J	0.0082J	0.011
Beryllium (Dissolved)	<0.025	<0.04	<0.02	<0.04	<0.01		<0.005	<0.005	<0.025	<0.004	<0.004	<0.04	<0.004	<0.004	<0.004
Cadmium (Dissolved)	<0.025	<0.05	<0.025	<0.05	<0.01		0.0011J	<0.005	<0.025	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
Calcium (Dissolved)	613	841	644	708	471		479	517.5	502	579	452	488	567	507	533
Chromium (Dissolved)	<0.05	<0.1	<0.05	<0.1	<0.02		<0.01	0.019	<0.05	<0.01	<0.01	<0.1	<0.01	<0.01	0.027
Cobalt (Dissolved)	<0.05	<0.1	<0.05	<0.1	<0.02		0.00067J	0.0018	<0.05	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01
Copper (Dissolved)	<0.05	0.24	<0.1	<0.2	<0.01		0.014	0.00765	<0.05	0.013J	<0.02	0.21	0.016J	0.018J	0.021
Iron (Dissolved)	<0.5	<2	<4	<2	<0.1		<0.1	<0.1	<0.5	<0.2	<2	<2	<0.2	<0.2	<0.2
Lead (Dissolved)	<0.075	<0.15	<0.075	<0.15	<0.03		<0.015	<0.015	<0.075	<0.015	<0.015	<0.15	<0.15	<0.015	<0.015
Magnesium (Dissolved)	1,370	1,620	1,770	1,210	458		541	620	485	534	546	528	250	257	194
Manganese (Dissolved)	0.09	<0.15	0.095	0.89	0.24		0.21	0.205	0.255	0.35	0.16	0.28	<0.015	<0.015	<0.015
Mercury (Dissolved)	0.00011J	<0.0002	0.0001J	<0.0002	<0.0002		<0.0002	<0.0002	0.00011	<0.0002	0.00009	<0.0002	<0.0002	0.000096J	<0.0002
Nickel (Dissolved)	<0.2	<0.4	<0.2	<0.4	<0.04		0.0034J	<0.04	<0.2	<0.04	<0.04	<0.4	<0.04	<0.04	<0.04
Potassium (Dissolved)	33.6	44.9	39.9	49.9	14.8		20.5	26.65	15.6	20.8	20.3	16.4	17.5	14.1	22.6
Selenium (Dissolved)	<0.2	<0.4	<0.2	<0.4	<0.08		<0.04	<0.04	<0.2	<0.04	<0.04	<0.4	<0.04	<0.04	<0.04
Silver (Dissolved)	0.011J	<0.1	<0.05	0.035J	<0.01		<0.01	<0.01	0.00755	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01
Sodium (Dissolved)	7,190	7,330	7,730	5,200	2,020		3,110	3,285	2,430	2,620	2,720	2,580	102	102	65.2
Thallium (Dissolved)	<0.1	<0.2	<0.1	<0.2	<0.02		0.007J	<0.02	0.024	0.0079J	<0.02	<0.2	<0.02	<0.02	0.0083J
Vanadium (Dissolved)	0.077J	0.63	<0.1	0.15J	0.057		0.088	0.0525	0.04075	0.098	0.039	0.53	0.09	0.1	0.075
Zinc (Dissolved)	<0.1	<0.2	<0.1	<0.2	<0.02		<0.02	<0.02	<0.1	<0.02	<0.02	<0.2	<0.02	<0.02	<0.02
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005	<0.005	<0.005	<0.005	0.0152	0.01715	0.0174	0.0155	0.01315	0.016	0.01255	0.022	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000574	<0.005	<0.005	0.0003625	<0.005	<0.005	<0.005	<0.005
Acetone	<0.005	<0.005	<0.005	<0.005	0.000587J	<0.005	<0.005	0.00182	0.00188	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzene	<0.005	<0.005	<0.005	0.00123J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005	<0.005	0.000581J	0.0012365	0.00121J	0.0021	<0.005	<0.005	0.0014115	<0.005	<0.005	<0.005	<0.005
Naphthalene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:
Units are in milligrams per liter (mg/L)
J = Detected below the detection limit, an estimated value is shown

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	S10-MW06	S10-MW06	S10-MW06	S10-MW06	S10-MW06 (Avg)	S10-MW06	SWMU183-MW03	SWMU183-MW03	SWMU183-MW03	SWMU183-MW03	SWMU183-MW03	SWMU183-MW03	SWMU183-MW03	SD08-MW10	SD08-MW10
Date	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Jul-13**	**Nov-13**
Fluoride		0.638J	1.23J				1.67	1.44	1.44J	1.69J					
Nitrate		47.1	47.5	49.3	46.2	43.2	64.2	55.9	47.9	34	36.1	24.2	23	<0.5	<1
Chloride		2,280	2,430				930	907	1,010	929					
Sulfate		6,860	7,320				2,780	2,780	2,960	3,170					
Mercury		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00014J	<0.0002	0.00017J	0.00008J	<0.0002	<0.0002	<0.0002	0.0001J	<0.0002
Aluminum (Dissolved)		0.13J	<1	<0.2	<2	<2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<2	0.064J	<0.2
Antimony (Dissolved)		<0.06	0.039J	<0.06	<0.6	<0.6	<0.06	<0.06	0.0087J	0.019J	<0.06	<0.06	0.23J	<0.06	<0.06
Asenic (Dissolved)		0.021	<0.05	0.028	<0.2	<0.2	<0.02	<0.01	0.012	<0.05	0.016J	<0.02	<0.2	0.043	0.035
Barium (Dissolved)		0.0047J	0.0082J	0.0073J	<0.1	<0.1	0.0088J	0.0085J	0.0093J	0.0099J	0.0089J	0.011	<0.1	0.019	0.023
Beryllium (Dissolved)		0.00017J	<0.025	<0.004	<0.04	<0.04	<0.01	<0.005	<0.005	<0.025	<0.004	<0.004	<0.04	<0.004	<0.004
Cadmium (Dissolved)		<0.005	<0.025	<0.005	<0.05	<0.05	<0.01	0.0012J	<0.005	<0.025	<0.005	<0.005	<0.05	<0.005	<0.005
Calcium (Dissolved)		406	441	472	450.5	435	531	527	523	493	507	482	499	473	505
Chromium (Dissolved)		0.017	<0.05	<0.01	<0.1	<0.1	<0.02	<0.01	0.0073J	<0.05	<0.01	<0.01	<0.1	<0.01	0.024
Cobalt (Dissolved)		<0.01	<0.05	<0.01	<0.1	<0.1	<0.02	0.00079J	0.0015J	<0.05	<0.01	<0.01	<0.1	0.0051J	0.0057J
Copper (Dissolved)		0.0019J	<0.05	0.011J	0.15	0.18J	<0.01	0.015	0.0037J	<0.05	0.018J	<0.02	0.2	0.016J	0.022
Iron (Dissolved)		<0.1	<0.5	<0.2	<2	<2	<0.1	<0.1	<0.1	<0.5	<0.2	<0.2	<2	0.54	1.27
Lead (Dissolved)		<0.015	<0.075	<0.015	<0.15	<0.15	<0.03	<0.015	<0.015	<0.075	<0.015	<0.015	<0.15	<0.015	<0.015
Magnesium (Dissolved)		524	610	639	621	598	201	201	199	189	198	230	237	261	259
Manganese (Dissolved)		0.07	0.084	0.059	0.165	0.15	0.82	0.79	0.8	0.67	0.7	1.13	0.92	2.13	2.57
Mercury (Dissolved)			0.00011J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00011J	<0.0002	<0.0002	<0.0002	0.0001J	<0.0002
Nickel (Dissolved)		<0.04	<0.2	<0.04	<0.4	<0.4	<0.04	0.0016J	<0.04	<0.2	<0.04	<0.04	<0.4	<0.04	<0.04
Potassium (Dissolved)		43.5	30.3	37.9	30.35	32.5	5.91	6.75	7.33	5.92	6.94	7.98	6.68	5.28	5.77
Selenium (Dissolved)		<0.04	<0.2	<0.04	<0.4	<0.4	<0.08	0.012J	<0.04	<0.2	<0.04	<0.04	<0.4	<0.04	<0.04
Silver (Dissolved)		<0.01	0.011J	<0.01	<0.1	<0.1	0.0046J	<0.01	<0.01	<0.05	<0.01	<0.01	0.047J	<0.01	<0.01
Sodium (Dissolved)		3,040	3,330	3,600	2,840	3,320	1,080	809	972	1,140	1,190	1,110	3,740	296	226
Thallium (Dissolved)		<0.02	<0.1	0.005J	<0.2	<0.2	<0.02	0.0042J	<0.02	0.021J	0.0059J	<0.02	<0.2	<0.02	0.011J
Vanadium (Dissolved)		0.044	0.081J	0.11	0.455	0.49	0.03	0.073	0.024	0.012J	0.07	0.015J	0.094J	0.061	0.018J
Zinc (Dissolved)		<0.02	<0.1	<0.02	<0.2	<0.2	<0.02	<0.02	<0.02	<0.1	<0.02	0.0053J	<0.2	<0.02	<0.02
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone	<0.005	0.00121J	<0.005	<0.005	<0.005	<0.005	0.00162J	<0.005	0.00118J	<0.005	<0.005	<0.005	<0.005	0.00143J	<0.005
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00128J	0.0584	0.0629
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00352	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00175J	<0.005	0.00283J
tert-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.005	0.00106J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00614	0.00194J
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00458J	0.0143
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00779	0.0306
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:
Units are in milligrams per liter (mg/L)
J = Detected below the detection limit, an estimated value is shown

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	SD08-MW11	SD08-MW11	SD08-MW12	SD08-MW12	SD08-MW13	SD08-MW13 (Avg)
Date	**Jul-13**	**Nov-13**	**Jul-13**	**Nov-13**	**Jul-13**	**Nov-13**
Fluoride						
Nitrate	<25	<10	4.95J	21.7	9.74J	12.4
Chloride						
Sulfate						
Mercury	0.000097J	<0.0002	<0.0002	<0.0002	0.00011J	<0.0002
Aluminum (Dissolved)	<2	<2	0.5J	<2	<1	<2
Antimony (Dissolved)	<0.6	<0.6	<0.6	<0.6	<0.3	<0.6
Asenic (Dissolved)	<0.2	<0.2	0.064J	<0.2	<0.1	<0.2
Barium (Dissolved)	0.029J	0.026J	0.026J	<0.1	<0.05	<0.1
Beryllium (Dissolved)	<0.04	<0.04	<0.04	<0.04	<0.02	<0.04
Cadmium (Dissolved)	<0.05	<0.05	<0.05	<0.05	<0.025	<0.05
Calcium (Dissolved)	491	487	753	593	604	664.5
Chromium (Dissolved)	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1
Cobalt (Dissolved)	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1
Copper (Dissolved)	0.2	0.2	0.24	0.37	0.096J	0.335
Iron (Dissolved)	<2	<2	<2	<2	<1	<2
Lead (Dissolved)	<0.15	0.04J	<0.15	<0.15	<0.075	<0.15
Magnesium (Dissolved)	1,000	875	3,520	2,890	1,800	2,235
Manganese (Dissolved)	2.57	2.3	0.069J	0.066J	<0.075	<0.15
Mercury (Dissolved)	<0.0002	<0.0002	<0.0002	<0.0002	0.000091J	<0.0002
Nickel (Dissolved)	<0.4	<0.4	<0.4	<0.4	<0.2	<0.4
Potassium (Dissolved)	23.9	23.4	85.3	85.1	57	67.8
Selenium (Dissolved)	<0.4	<0.4	<0.4	<0.4	<0.2	<0.4
Silver (Dissolved)	<0.1	0.04J	<0.1	<0.1	<0.05	<0.1
Sodium (Dissolved)	5,450	4,670	14,300	15,300	8,230	10,550
Thallium (Dissolved)	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2
Vanadium (Dissolved)	0.58	0.13J	0.83	0.6	0.4	0.63
Zinc (Dissolved)	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.0805	0.0773	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	0.00537	0.00473J	<0.005	<0.005	<0.005	<0.005
Acetone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzene	<0.005	0.00138J	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene	<0.005	0.001J	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	0.00128J	0.00138J	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:
Units are in milligrams per liter (mg/L)
J = Detected below the detection limit, an estimated value is shown

Table 8-2(c)
Statistical Summary of Groundwater Data Used for Risk Assessment
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Chemical	Total Number of Samples	Number of Detected Concentrations	Number of Non-Detected Concentrations	Detected Concentration		Detection Limit	
				Minimum	Maximum	Minimum	Maximum
				mg/L			
Fluoride	41	37	4	0.465	7.31	5	5
Nitrate	86	67	19	0.09	64.2	0.4	25
Chloride	42	42	0	22.6	13500	0	0
Sulfate	42	42	0	1590	8900	0	0
Mercury	94	26	68	0.00008	0.00023	0.0002	0.0002
Aluminum (Dissolved)	94	10	84	0.034	0.5	0.2	2
Antimony (Dissolved)	94	20	74	0.0041	0.23	0.06	0.6
Asenic (Dissolved)	94	46	48	0.0037	0.072	0.01	0.2
Barium (Dissolved)	94	77	17	0.0019	0.029	0.01	0.1
Beryllium (Dissolved)	94	9	85	0.00017	0.0016	0.004	0.04
Cadmium (Dissolved)	94	15	79	0.00033	0.0039	0.005	0.05
Calcium (Dissolved)	94	94	0	387	841	0	0
Chromium (Dissolved)	94	25	69	0.0004	0.029	0.01	0.1
Cobalt (Dissolved)	94	29	65	0.00052	0.0057	0.01	0.1
Copper (Dissolved)	94	54	40	0.0016	0.37	0.01	0.2
Iron (Dissolved)	94	21	73	0.067	8.035	0.01	4
Lead (Dissolved)	94	3	91	0.0062	0.043	0.015	0.15
Magnesium (Dissolved)	94	94	0	48	3520	0	0
Manganese (Dissolved)	94	65	29	0.0044	2.605	0.015	0.15
Mercury (Dissolved)	88	23	65	0.000085	0.00013	0.0002	0.0002
Nickel (Dissolved)	94	12	82	0.00098	0.0061	0.04	0.4
Potassium (Dissolved)	94	94	0	3.01	85.3	0	0
Selenium (Dissolved)	94	7	87	0.004	0.02	0.04	0.4
Silver (Dissolved)	94	23	71	0.0036	0.047	0.01	0.1
Sodium (Dissolved)	94	94	0	20.4	15300	0	0
Thallium (Dissolved)	94	25	69	0.0037	0.035	0.02	0.2
Vanadium (Dissolved)	94	86	8	0.0018	0.83	0.02	0.1
Zinc (Dissolved)	94	7	87	0.0053	0.16	0.02	0.2
1,2-Dichlorobenzene	96	1	95	0.0002575	0.0002575	0.005	0.005
1,2-Dichloroethane	96	36	60	0.00234	0.0892	0.005	0.005
1,2-Dichloropropane	96	21	75	0.0003625	0.00672	0.005	0.005
Acetone	96	32	64	0.000587	0.06045	0.005	0.005
Benzene	96	13	83	0.000211	0.0629	0.005	0.005
Bromoform	96	2	94	0.000636	0.00232	0.005	0.005
Bromomethane	96	1	95	0.00352	0.00352	0.0005	0.005
sec-Butylbenzene	96	8	88	0.0003555	0.003565	0.005	0.005
tert-Butylbenzene	96	10	86	0.000349	0.003805	0.005	0.005
Chloroform	96	8	88	0.000435	0.00104	0.005	0.005
Chloromethane	96	6	90	0.00101	0.00261	0.005	0.005
Dibromochloromethane	96	1	95	0.00124	0.00124	0.005	0.005
Ethylbenzene	96	4	92	0.000473	0.00614	0.005	0.005
Isopropylbenzene	96	4	92	0.00128	0.0143	0.005	0.005
Methyl ethyl ketone	96	2	94	0.03625	0.0392	0.005	0.005
n-Propylbenzene	96	2	94	0.00779	0.0306	0.005	0.005
Toluene	96	1	95	0.0392	0.0392	0.005	0.005
Trichloroethene	96	5	91	0.000581	0.0021	0.005	0.005
Naphthalene	96	3	93	0.000655	0.00249	0.005	0.005

Notes: mg/L = Milligrams per liter

Table 8-2(d)
Comparison of Maximum Detected Concentrations in Groundwater with Screening Levels
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Chemical	Maximum Detected Concentration (mg/L)	Screening Level		Exceed/Not Exceed	COPC
		(mg/L)	Source		
Fluoride	7.31	1.6	1	Exceed	**Yes**
Nitrate	64.2	10	1	Exceed	**Yes**
Chloride	13500	250	1	Exceed	**Yes**
Sulfate	8900	250	2	Exceed	**Yes**
Mercury	0.00023	0.002	1	Not Exceed	No
Aluminum (Dissolved)	0.5	0.054	3	Exceed	**Yes**
Antimony (Dissolved)	0.23	0.006	2	Exceed	**Yes**
Asenic (Dissolved)	0.072	0.01	2	Exceed	**Yes**
Barium (Dissolved)	0.029	1	1	Not Exceed	No
Beryllium (Dissolved)	0.0016	0.004	2	Not Exceed	No
Cadmium (Dissolved)	0.0039	0.005	2	Not Exceed	No
Calcium (Dissolved)	841	1151	3	Not Exceed	No
Chromium (Dissolved)	0.029	0.05	1	Not Exceed	No
Cobalt (Dissolved)	0.0057	0.05	1	Not Exceed	No
Copper (Dissolved)	0.37	1	1	Not Exceed	No
Iron (Dissolved)	8.035	0.3	2	Exceed	**Yes**
Lead (Dissolved)	0.043	0.015	2	Exceed	**Yes**
Magnesium (Dissolved)	3520	3631	3	Not Exceed	No
Manganese (Dissolved)	2.605	0.05	2	Exceed	**Yes**
Mercury (Dissolved)	0.00013	0.002	1	Not Exceed	No
Nickel (Dissolved)	0.0061	0.2	1	Not Exceed	No
Potassium (Dissolved)	85.3	120	3	Not Exceed	No
Selenium (Dissolved)	0.02	0.05	1	Not Exceed	No
Silver (Dissolved)	0.047	0.05	1	Not Exceed	No
Sodium (Dissolved)	15300	19972	3	Not Exceed	No
Thallium (Dissolved)	0.035	0.002	2	Exceed	**Yes**
Vanadium (Dissolved)	0.83	0.0738	3	Exceed	**Yes**
Zinc (Dissolved)	0.16	5	2	Not Exceed	No
1,2-Dichlorobenzene	0.0002575	NV		N/A	**Yes**
1,2-Dichloroethane	0.0892	0.005	2	Exceed	**Yes**
1,2-Dichloropropane	0.00672	0.005	2	Exceed	**Yes**
Acetone	0.06045	NV		N/A	**Yes**
Benzene	0.0629	0.005	2	Exceed	**Yes**
Bromoform	0.00232	NV		N/A	**Yes**
Bromomethane	0.00352	NV		N/A	**Yes**
sec-Butylbenzene	0.003565	NV		N/A	**Yes**
tert-Butylbenzene	0.003805	NV		N/A	**Yes**
Chloroform	0.00104	0.1	1	Not Exceed	No
Chloromethane	0.00261	NV		N/A	**Yes**
Dibromochloromethane	0.00124	NV		N/A	**Yes**
Ethylbenzene	0.00614	0.7	2	Not Exceed	No
Isopropylbenzene	0.0143	NV		N/A	**Yes**
Methyl ethyl ketone	0.0392	NV		N/A	**Yes**
n-Propylbenzene	0.0306	NV		N/A	**Yes**
Toluene	0.0392	0.75	1	Not Exceed	No
Trichloroethene	0.0021	0.005	2	Not Exceed	No
Naphthalene	0.00249	0.03	1	Not Exceed	No

Notes:
COPC = Chemical of potential concern
mg/L = Milligrams per liter
N/A = Not applicable
NV = No value

Sources:
1 = NMWQCC Groundwater Standards for Contaminants (NMAC 20.6.2.3103)
2 = USEPA National Priority Drinking Water Regulation MCLs (USEPA, 2009)
3 = NMED Approved HAFB Background Levels (NMED, 2011b)

Table 8-3
Chemicals of Potential Concern
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Chemicals	Groundwater
Fluoride	X
Nitrate	X
Chloride	X
Sulfate	X
Aluminum (Dissolved)	X
Antimony (Dissolved)	X
Asenic (Dissolved)	X
Iron (Dissolved)	X
Lead (Dissolved)	X
Manganese (Dissolved)	X
Thallium (Dissolved)	X
Vanadium (Dissolved)	X
1,2-Dichlorobenzene	X
1,2-Dichloroethane	X
1,2-Dichloropropane	X
Acetone	X
Benzene	X
Bromoform	X
Bromomethane	X
sec-Butylbenzene	X
tert-Butylbenzene	X
Chloromethane	X
Dibromochloromethane	X
Isopropylbenzene	X
Methyl ethyl ketone	X
n-Propylbenzene	X
Total No. of COPCs	**26**

Notes:
X: Chemicals of potential concern

Table 8-4(a)
Exposure Model for Future Resident
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

No.	Route of Exposure	C/NC	Justification
1	Dermal contact with soil	NC	No COPC in soil has been identified. Therefore, this exposure pathway is not complete.
2	Ingestion of soil	NC	
3	Outdoor inhalation of vapors or particulates from soil	NC	
4	Indoor inhalation of vapors from subsurface soil	NC	
5	Outdoor inhalation of vapors from subsurface soil	NC	
6	**Indoor inhalation of vapors from groundwater**	**C**	**A residential building may be constructed over an area where impacted groundwater exists. Therefore, this pathway is complete.**
7	Outdoor inhalation of vapors from groundwater	C	Vapors from groundwater may migrate upwards through the capillary fringe, the vadose zone, and into the ambient air through the ground surface. Note this pathway is generally not the "risk driver" (due to considerable mixing and dilution in ambient air) especially when indoor intrusion is considered.
8	Accidental ingestion of groundwater	C	Depth to groundwater at the site fluctuates between 9 to 14 feet below ground surface. A resident may accidentally ingest groundwater while digging in the yard. However, the risk from this pathway is typically minor due to limited frequency of exposure.
9	Accidental dermal contact with groundwater	C	Depth to groundwater at the site fluctuates between 9 to 14 feet below ground surface. A resident may accidentally come in contact with groundwater while digging in the yard. However, the risk from this pathway is typically minor due to limited frequency of exposure.
10	Ingestion of groundwater due to domestice use of groundwater	NC	The facility receives water from Lake Bonito. Therefore, this exposure pathway is not complete.
11	Dermal contact with groundwater due to domestic use of groudnwater	NC	The facility receives water from the Lake Bonito. Therefore, this exposure pathway is not complete.

Notes:
C = Complete
NC = Not complete
Pathways shown in bold will be quantitatively evaluated.
Soil is assumed to be soil in 0 – 10 feet below ground surface (ft bgs).
Subsurface soil is assumed to be soil between 0 ft bgs and the groundwater table.

Table 8-4(b)
Exposure Model for Future Construction Worker
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

No.	Route of Exposure	C/NC	Justification
1	Dermal contact with soil to depth of construction	NC	No COPC in soil has been identified. Therefore, this exposure pathway is not complete.
2	Ingestion of soil to depth of construction	NC	
3	Outdoor inhalation of vapors or particulates from soil to depth of construction	NC	
4	Indoor inhalation of vapors from soil	NC	
5	Indoor inhalation of vapors from groundwater	NC	Typically construction does not occur indoors for an extended period of time. Therefore, this pathway is typically not quantified as it will contribute only a de minimis amount of risk, if any.
6	Accidental ingestion of groundwater	C	It is highly improbable bus possible that a construction worker (CW) will accidently ingest meaningful amounts of water that will result in significant exposure. This is particularly the case when the maximum depth of construction is 10 ft bgs and the depth to groundwater is more than 9 ft bgs. Thus, the CW may be exposed to miniscule amount of groundwater by ingestion if any.
7	**Dermal contact with groundwater**	**C**	**Depth to groundwater at the site fluctuates approximately between 9 to 14 feet below ground surface which can be within the anticipated depth of construction. Therefore, this pathway is complete.**
8	**Inhalation of vapors from groundwater**	**C**	**Depth to groundwater at the site fluctuates approximately between 9 to 14 feet below ground surface which can be within the anticipated depth of construction. Therefore, this pathway is complete.**

Notes:
C = Complete
NC = Not complete
Pathways shown in bold will be quantitatively evaluated.
Soil to depth of construction is assumed to be soil in 0 - 10 feet below ground surface.

Table 8-5
Representative Concentrations of Groundwater for Future Resident and Future Construction Worker
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-01 (Avg)	MW-08-01 (Avg)	MW-08-01	MW-08-01	MW-08-01	MW-08-01 (Avg)	MW-08-01	MW-08-01 (Avg)	MW-08-02	MW-08-02	MW-08-02	MW-08-02
Date	**Apr-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**
Fluoride	5.705		5.41	3.38	3.28				7.31		4.12	3.53
Nitrate	<10		<5	<2.5	<5	<5	<5	<2	0.09J		<2.5	<2.5
Chloride	620.5		519	563	556				73.1		119	101
Sulfate	6255		5540	5780	5470				2,160		1,960	1,890
Aluminum (Dissolved)	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<2	0.16J	<0.2	<0.2	<0.2
Antimony (Dissolved)	<0.06	<0.06	<0.06	0.011J	0.02J	<0.06	<0.06	<0.6	<0.06	<0.06	<0.06	<0.06
Asenic (Dissolved)	0.0051	<0.02	0.0037J	<0.01	<0.05	0.014	<0.02	<0.2	0.026	0.013J	0.03	0.04
Iron (Dissolved)	7.47	5.335	5.17	5.52	6.07	7.38	7.11	8.035	0.52	0.33	1.53	0.92
Lead (Dissolved)	<0.015	<0.03	<0.015	<0.015	<0.075	<0.015	<0.015	<0.15	<0.015	<0.03	<0.015	<0.015
Manganese (Dissolved)	2.575	1.82	1.71	1.66	1.84	2.385	2.47	2.605	1.03	0.8	2.19	1.15
Thallium (Dissolved)	<0.02	<0.02	0.005J	<0.02	0.035J	<0.02	<0.02	<0.2	<0.02	<0.02	<0.02	0.0044J
Vanadium (Dissolved)	<0.02	0.011	0.032	0.0035J	<0.1	0.047	<0.02	0.0735	0.021	0.021	0.0065J	<0.02
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0002575	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.0425	0.02795	0.0163	0.0293	0.0238	0.02755	0.0454	0.03415	0.00782	0.0112	0.00498J	0.0145
1,2-Dichloropropane	0.00631	0.005545	0.00298J	0.00558	0.00497J	0.005585	0.00672	0.00586	<0.005	<0.005	<0.005	<0.005
Acetone	0.010035	0.06045	<0.005	0.00687	0.00698	0.004845	0.00478J	0.005145	<0.005	0.0026J	<0.005	0.00156J
Benzene	0.000536	0.000385	<0.005	<0.005	0.000584J	0.0004575	0.000778J	0.000892	0.00026J	0.000211J	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene	0.0008325	0.003195	<0.005	<0.005	<0.005	0.003565	0.000604J	0.0003555	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	0.001005	0.003745	<0.005	0.000806J	0.000784J	0.003805	0.000984J	0.0008345	0.000475J	<0.005	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00241J
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	0.03625	<0.005	<0.005	0.0392	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:
Units are in milligrams per liter (mg/L)
J = Detected below the detection limit, an estimated value is shown

Table 8-5
Representative Concentrations of Groundwater for Future Resident and Future Construction Worker
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-02	MW-08-02 (Avg)	MW-08-02	MW-08-02	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03	MW-08-03
Date	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**
Fluoride	3.94				2.95		2.21	3.11J	1.51J			
Nitrate	0.132J	<0.5	<2.5	<1	16.6		11.7	12.3	14.2	20J	10.8	11.6
Chloride	116				4030		4100	5180	4150			
Sulfate	1,940				4890		5060	5970	4960			
Aluminum (Dissolved)	<1	<0.2	<0.2	<0.2	<0.2	<0.2	0.035J	0.13J	<1	<2	<0.2	<2
Antimony (Dissolved)	0.032J	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.0041J	0.026J	<0.6	<0.06	<0.6
Asenic (Dissolved)	<0.05	0.032	<0.02	0.014J	0.014	<0.02	0.022	0.019	<0.05	<0.2	<0.02	<0.2
Iron (Dissolved)	0.66	0.74	0.9	1.15	<0.1	<0.1	<0.1	<0.1	<0.5	<2	<0.2	<2
Lead (Dissolved)	<0.075	<0.015	<0.015	<0.015	<0.015	<0.03	<0.015	<0.015	<0.075	<0.15	<0.015	<0.15
Manganese (Dissolved)	1.02	1.155	1.08	1.62	<0.015	<0.015	<0.015	<0.015	<0.075	<0.15	<0.015	<0.15
Thallium (Dissolved)	<0.1	0.00755	<0.02	0.012J	<0.02	<0.02	0.0095J	<0.02	0.022J	<0.2	<0.02	<0.2
Vanadium (Dissolved)	0.015J	0.0485	<0.02	0.021	0.0018J	0.063	0.033	0.035	0.072J	0.68	0.029	0.16J
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.0639	0.005315	0.0108	0.00402J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	0.00138J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone	0.00195J	<0.005	<0.005	<0.005	<0.005	0.00225J	<0.005	0.00136J	0.00147J	<0.005	<0.005	<0.005
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00232J	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	0.000406J	<0.005	0.000349J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00228J	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00124J	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:
Units are in milligrams per liter (mg/L)
J = Detected below the detection limit, an estimated value is shown

Table 8-5
Representative Concentrations of Groundwater for Future Resident and Future Construction Worker
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-05	MW-08-07	MW-08-07	MW-08-07 (Avg)	MW-08-07 (Avg)
Date	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**	**Jan-13**	**Apr-13**	**Jul-13**	**Nov-13**	**Jan-12**	**Apr-12**	**Jul-12**	**Oct-12**
Fluoride	5.35		4.55	4.19	5.03				4.66		3.32	2.71
Nitrate	1.04J		0.434J	<2.5	0.321J	<2.5	0.351J	<0.4	2.36J		1.0935	0.733
Chloride	27.7		34.2	22.6	59				436		449	477
Sulfate	1800		1590	1640	1630				2230		2250	2270
Aluminum (Dissolved)	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<0.2	<0.2	<0.2	0.039	<0.2
Antimony (Dissolved)	<0.06	<0.06	<0.06	0.0074J	0.02J	<0.06	<0.06	<0.06	<0.06	<0.06	0.0043	0.00955
Asenic (Dissolved)	0.0058J	<0.02	<0.01	0.015	<0.05	0.011J	<0.02	<0.02	0.048	0.029	0.051	0.0675
Iron (Dissolved)	0.074J	<0.2	<0.1	<0.1	<0.5	<0.2	<2	1.31	<0.1	<0.1	<0.1	<0.1
Lead (Dissolved)	<0.015	<0.03	<0.015	0.043	<0.075	<0.015	<0.015	0.0062J	<0.015	<0.03	<0.015	<0.015
Manganese (Dissolved)	0.033	0.024	0.036	0.023	0.056J	0.13	0.016	0.13	1.33	1.37	1.485	1.5
Thallium (Dissolved)	<0.02	<0.02	0.0048J	<0.02	<0.1	0.0071J	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Vanadium (Dissolved)	0.031	0.016J	0.055	0.017J	0.016J	0.054	0.0075J	0.013J	0.035	0.04	0.0725	0.015
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005	0.00461J	<0.005	<0.005	<0.005	0.00234J	<0.005	<0.005	0.0343	0.0525	0.05375	0.06875
1,2-Dichloropropane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000783J	0.000915J	0.0019	0.001625
Acetone	<0.005	0.000759J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0017J	<0.005	0.00172
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
tert-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:
Units are in milligrams per liter (mg/L)
J = Detected below the detection limit, an estimated value is shown

Table 8-5
Representative Concentrations of Groundwater for Future Resident and Future Construction Worker
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Sample ID	MW-08-07 (Avg)	MW-08-07	MW-08-07	MW-08-07	Total Number of Samples	Number of Detects	95% UCL	Maximum Detected	Rep. Conc.
Date	Jan-13	Apr-13	Jul-13	Nov-13					
Fluoride	2.8				20	20	4.48	7.31	4.48
Nitrate	1.39	0.638J	1.69J	1.49	35	20	12.9	20	12.9
Chloride	401				20	20	2759	5180	2759
Sulfate	2150				20	20	5137	6255	5137
Aluminum (Dissolved)	<1	<0.2	<0.2	<0.2	40	4	0.145	0.16	0.145
Antimony (Dissolved)	0.0305	<0.06	<0.06	<0.06	40	10	0.0221	0.032	0.0221
Asenic (Dissolved)	<0.05	0.056	0.025	0.04	40	22	0.0254	0.0675	0.0254
Iron (Dissolved)	<0.5	<0.2	<0.2	0.067J	40	19	3.37	8.035	3.37
Lead (Dissolved)	<0.075	<0.015	<0.015	<0.015	40	2	NA	0.043	0.043
Manganese (Dissolved)	1.39	1.5	1.16	1.35	40	32	1.83	2.605	1.83
Thallium (Dissolved)	<0.1	0.0063J	<0.02	0.014J	40	11	0.0114	0.035	0.0114
Vanadium (Dissolved)	0.017	0.055	0.014J	0.039	40	35	0.122	0.68	0.122
1,2-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	40	1	NA	0.0002575	0.0002575
1,2-Dichloroethane	0.0469	0.0892	0.0399	0.0305	40	26	0.0272	0.0892	0.0272
1,2-Dichloropropane	0.0010655	0.00134J	0.00112J	0.000809J	40	17	0.00302	0.00672	0.00302
Acetone	0.00135	<0.005	<0.005	<0.005	40	17	0.00711	0.06045	0.00711
Benzene	<0.005	<0.005	<0.005	<0.005	40	8	0.000654	0.000892	0.000654
Bromoform	<0.005	<0.005	<0.005	<0.005	40	1	NA	0.00232	0.00232
Bromomethane	<0.005	<0.005	<0.005	<0.005	40	0	NA	ND	ND
sec-Butylbenzene	<0.005	<0.005	<0.005	<0.005	40	5	0.00287	0.003565	0.00287
tert-Butylbenzene	<0.005	<0.005	<0.005	<0.005	40	10	0.00202	0.003805	0.00202
Chloromethane	<0.005	<0.005	<0.005	<0.005	40	2	NA	0.00241	0.00241
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	40	1	NA	0.00124	0.00124
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	40	0	NA	ND	ND
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	40	2	NA	0.0392	0.0392
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	40	0	NA	ND	ND

Notes:
Units are in milligrams per liter (mg/L)
J = Detected below the detection limit, an estimated value is shown
Rep. Conc = Representative concentration

Table 8-6(a)
Toxicity and Physical and Chemical Parameters Used for Calculating Target Levels of Indoor Inhalation of Vapors (J&E Model)
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Chemical	Molecular Weight MW (g/mol)	Organic carbon partition coefficient K_{oc} (cm^3/g)	Diffusivity in air D_a (cm^2/s)	Diffusivity in water D_w (cm^2/s)	Pure component water solubility S (mg/L)	Henry's law constant H' (unitless)	Henry's law constant at reference temperature H (atm-m^3/mol)	Henry's law constant reference temperature T_R (^oC)	Normal boiling point T_B (^oK)	Critical temperature T_C (^oK)	Enthalpy of vaporization at the normal boiling point $DH_{v,b}$ (cal/mol)	Unit risk factor URF $(\mu g/m^3)^{-1}$	Reference concentration RfC (mg/m^3)
1,2-Dichlorobenzene	1.47E+02	3.83E+02	5.62E-02	8.92E-06	1.56E+02	7.85E-02	1.92E-03	2.50E+01	4.54E+02	7.05E+02	9.70E+03	NA	2.00E-01
1,2-Dichloroethane	9.90E+01	3.96E+01	8.57E-02	1.10E-05	8.60E+03	4.82E-02	1.18E-03	2.50E+01	3.57E+02	5.61E+02	7.64E+03	2.60E-05	7.00E-03
1,2-Dichloropropane	1.13E+02	6.07E+01	7.33E-02	9.73E-06	2.80E+03	1.15E-01	2.82E-03	2.50E+01	3.70E+02	5.72E+02	7.59E+03	1.00E-05	4.00E-03
Acetone	5.81E+01	2.36E+00	1.06E-01	1.15E-05	1.00E+06	1.43E-03	3.50E-05	2.50E+01	3.29E+02	5.08E+02	6.96E+03	NA	3.10E+01
Benzene	7.81E+01	1.46E+02	8.95E-02	1.03E-05	1.79E+03	2.27E-01	5.55E-03	2.50E+01	3.53E+02	5.62E+02	7.34E+03	7.80E-06	3.00E-02
Bromoform	2.53E+02	3.18E+01	3.57E-02	1.04E-05	3.10E+03	2.19E-02	5.35E-04	2.50E+01	4.22E+02	6.96E+02	9.48E+03	1.10E-06	NA
Bromomethane	9.49E+01	1.32E+01	1.00E-01	1.35E-05	1.52E+04	3.00E-01	7.34E-03	2.50E+01	2.77E+02	4.67E+02	5.71E+03	NA	5.00E-03
sec-Butylbenzene	1.34E+02	1.33E+03	5.28E-02	7.34E-06	1.76E+01	7.20E-01	1.76E-02	2.50E+01	4.47E+02	6.79E+02	8.87E+04	NA	NA
tert-Butylbenzene	1.34E+02	1.00E+03	5.30E-02	7.37E-06	2.95E+01	5.40E-01	1.32E-02	2.50E+01	4.42E+02	1.22E+03	8.98E+03	NA	NA
Chloromethane	5.05E+01	1.32E+01	1.24E-01	1.36E-05	5.32E+03	3.61E-01	8.82E-03	2.50E+01	2.49E+02	4.16E+02	5.11E+03	NA	9.00E-02
Dibromochloromethane	2.08E+02	3.18E+01	3.66E-02	1.06E-05	2.70E+03	3.20E-02	7.83E-04	2.50E+01	4.16E+02	6.78E+02	5.90E+03	2.70E-05	NA
Isopropylbenzene	1.20E+02	6.98E+02	6.03E-02	7.86E-06	6.13E+01	4.70E-01	1.15E-02	2.50E+01	4.26E+02	6.31E+02	1.03E+04	NA	4.00E-01
Methyl ethyl ketone	7.21E+01	4.51E+00	9.14E-02	1.02E-05	2.23E+05	2.33E-03	5.69E-05	2.50E+01	3.53E+02	5.37E+02	7.48E+03	NA	5.00E+00
n-Propylbenzene	1.20E+02	8.13E+02	6.02E-02	7.83E-06	5.22E+01	4.29E-01	1.05E-02	2.50E+01	4.32E+02	6.30E+02	9.12E+03	NA	1.00E+00

Notes:
NA = Not available
Value in normal font obtained from the Regional Screening Level (RSL) Summary Table November 2013 (USEPA, 2013)
Value underlined obtained from the User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings (USEPA, 2004a)
cm^3/g = Cubic centimeters per gram
cm^2/s = Square centimeters per second
mg/L = Milligrams per Liter
atm-m^3/mol = Atmospheric-cubic meters per mole
˚C = Degrees Celcius
˚K = Kelvin
cal/mol = Calories per mole
g/mol = Grams per mole
mg/m^3 = Milligrams per cubic meter
$\mu g/m^3$ = Micrograms per cubic meter

Table 8-6(b)
Exposure Factors Used for Calculating Target Levels of Indoor Inhalation of Vapors (J&E Model)
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Parameter	Symbol	Unit	Values Used	Source
Averaging time for carcinogen	ATc	days	25,550	NMED, 2012b
Averaging time for non-carcinogen	ATnc	days	ED*365	NMED, 2012b
Exposure duration for resident	ED	years	30	NMED, 2012b
Exposure frequency for resident	EF	days/year	350	NMED, 2012b

Notes:
NMED, 2012b. Risk Assessment Guidance for Investigations and Remediation
NMED = New Mexico Environment Department

Table 8-6(c)
Media Specific Parameters Used for Calculating Target Levels of Indoor Inhalation of Vapors (J&E Model)
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Parameter	Symbol	Unit	Value Used	Source
Source Parameters				
Average soil temperature	T_s	°C	22.3	Site-specific
Depth below grade to water table	L_{WT}	cm	386	Site-specific
Thickness of capillary fringe zone	L_{cz}	cm	18.8	USEPA, 2004a
Geotechnical Parameters				
Soil dry bulk density in the vadose zone and the capillary fringe zone	ρ_b	g/cm^3	1.62	USEPA, 2004a
Soil total porosity in the vadose zone and the capillary fringe zone	n	unitless	0.39	USEPA, 2004a
Soil water-filled porosity in the vadose zone	θ_w	cm^3/cm^3	0.076	USEPA, 2004a
Soil water-filled porosity in the capillary fringe zone	θ_{wcz}	cm^3/cm^3	0.351	Professional Judgment
Building Parameters for Future Resident				
Depth below grade to bottom of enclosed space floor	L_F	cm	15	USEPA, 2004a
Enclosed space floor thickness	L_{crack}	cm	10	USEPA, 2004a
Enclosed space floor length	L_B	cm	1000	USEPA, 2004a
Enclosed space floor width	W_B	cm	1000	USEPA, 2004a
Enclosed space height	H_B	cm	244	USEPA, 2004a
Floor-wall seam crack width	w	cm	0.1	USEPA, 2004a
Indoor air exchange rate	ER	1/hr	0.25	USEPA, 2004a
Average vapor flow rate into building	Q_{soil}	L/min	5	USEPA, 2004a

Notes:
* = Dimensions for Builing 280 (office building) located close to the wells with higher chlorinated solvent concentrations
ASTM = American Society for Testing and Materials
USEPA = United States Environmental Protection Agency
ASTM, 1995. Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites.
USEPA, 2004a. User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings
˚C = Degrees celcius
cm = Centimeters
g/cm^3 = Grams per cubic centimeter
cm^3/cm^3 = Cubic centimeters per cubic centimeter
1/hr = One per hour
L/min = Liter per minute

Table 8-7(a)
Toxicity Values and Parameters Used for Calculating Target Levels for Dermal Contact with Groundwater
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

COPC	Ingestion Slope Factor (SF_o) [kg-day/mg]	Ingestion Reference Dose (RfD_o) [mg/kg-day]	Gastrointestinal Absorption Factor (ABS_{GI}) [--]	Dermal Slope Factor (SF_d) [kg-day/mg]	Dermal Reference Dose (RfD_d) [mg/kg-day]	Dermal Permeability Constant (K_p) [cm/hr]	Relative Contribution of Permeability Coefficient (B) [--]	Lag Time (τ_{event}) [hr]	Time to Reach Steady-State (t*) [hr]	Fraction Absorbed (FA) [--]
Fluoride	NA	4.00E-02	1.00E+00	NA	4.00E-02	1.00E-03	NA	NA	NA	NA
Nitrate	NA	1.60E+00	1.00E+00	NA	1.60E+00	1.00E-03	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	1.00E+00	1.00E+00	NA	1.00E+00	1.00E-03	NA	NA	NA	NA
Antimony	NA	4.00E-04	1.50E-01	NA	6.00E-05	1.00E-03	NA	NA	NA	NA
Arsenic	1.50E+00	3.00E-04	1.00E+00	1.50E+00	3.00E-04	1.00E-03	NA	NA	NA	NA
Iron	NA	7.00E-01	1.00E+00	NA	7.00E-01	1.00E-03	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	1.00E-04	NA	NA	NA	NA
Manganese	NA	2.40E-02	4.00E-02	NA	9.60E-04	1.00E-03	NA	NA	NA	NA
Thallium	NA	1.00E-05	1.00E+00	NA	1.00E-05	1.00E-03	NA	NA	NA	NA
Vanadium	NA	5.00E-03	2.60E-02	NA	1.30E-04	1.00E-03	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	9.00E-02	1.00E+00	NA	9.00E-02	4.46E-02	**1.93E-01**	**7.11E-01**	**1.71E+00**	**1**
1,2-Dichloroethane	9.10E-02	6.00E-03	1.00E+00	9.10E-02	6.00E-03	4.20E-03	**1.61E-02**	**3.82E-01**	**9.18E-01**	**1**
1,2-Dichloropropane	3.60E-02	9.00E-02	1.00E+00	3.60E-02	9.00E-02	7.53E-03	**3.17E-02**	**4.58E-01**	**1.10E+00**	**1**
Acetone	NA	9.00E-01	1.00E+00	NA	9.00E-01	5.12E-04	***1.50E-03***	***2.22E-01***	***5.34E-01***	***1***
Benzene	5.50E-02	4.00E-03	1.00E+00	5.50E-02	4.00E-03	1.49E-02	**5.05E-02**	**2.92E-01**	**7.00E-01**	**1**
Bromoform	7.90E-03	2.00E-02	1.00E+00	7.90E-03	2.00E-02	2.35E-03	**1.37E-02**	**2.79E+00**	**6.70E+00**	**1**
Bromomethane	NA	1.40E-03	1.00E+00	NA	1.40E-03	2.84E-03	**1.06E-02**	**3.63E-01**	**8.71E-01**	**1**
sec-Butylbenzene	NA	1.00E-01	1.00E+00	NA	1.00E-01	3.01E-01	***1.34E+00***	***5.94E-01***	***2.34E+00***	***1***
tert-Butylbenzene	NA	1.00E-01	1.00E+00	NA	1.00E-01	1.49E-01	***6.63E-01***	***5.92E-01***	***2.32E+00***	***1***
Chloromethane	*1.30E-02*	NA	1.00E+00	*1.30E-02*	NA	3.28E-03	**8.97E-03**	**2.04E-01**	**4.90E-01**	**1**
Dibromochloromethane	8.40E-02	2.00E-02	1.00E+00	8.40E-02	2.00E-02	2.89E-03	**1.79E-02**	**1.57E+00**	**3.77E+00**	**1**
Isopropylbenzene	NA	1.00E-01	1.00E+00	NA	1.00E-01	8.97E-02	***3.78E-01***	***4.95E-01***	***1.19E+00***	***1***
Methyl ethyl ketone	NA	6.00E-01	1.00E+00	NA	6.00E-01	9.62E-04	**3.14E-03**	**2.70E-01**	**6.47E-01**	**1**
n-Propylbenzene	NA	1.00E-01	1.00E+00	NA	1.00E-01	9.39E-02	***3.96E-01***	***4.95E-01***	***1.19E+00***	***1***

Notes:
NA = Not available
Value in normal font obtained from the Regional Screening Level (RSL) Summary Table November 2012 (USEPA, 2012)
Value in italics and underlined obtained from the Texas Risk Reduction Program Rule Tables (TCEQ, 2012)
Value in bold was obtained from the RAGS Volume I, Part E (USEPA, 2004b)
Value in bold and italics was estimated as per the RAGS Volume I, Part E (USEPA, 2004b)
kg-day/mg = Lilograms per day per millgram
mg/kg-day = Milligrams per kilogram per day
cm/hr = Centimeters per hour
hr = Hours

Table 8-7(b)
Exposure Factors Used for Calculating Target Levels for Dermal Contact with Groundwater
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Parameter	Symbol	Unit	Values Used	Source
Averaging time for carcinogen	AT_c	days	25,550	NMED, 2012b
Averaging time for non-carcinogen	AT_{nc}	days	ED*365	NMED, 2012b
Body weight for construction worker	BW	kg	70	NMED, 2012b
Exposure duration for construction worker	ED	years	1	NMED, 2012b
Exposure frequency for construction worker	EF	days/year	250	NMED, 2012b
Skin surface area for dermal contact with water for construction worker	SA_{gw}	cm^2	3,300	USEPA, 2004b
Event frequency for dermal contact with water for construction worker	EV_{gw}	event/day	1	Professional judgment
Event duration for dermal contact with water for construction worker	t_{event}	hr/event	1	Professional judgment

Notes:
NMED = New Mexico Environment Department
USEPA = United States Environmental Protection Agency
NMED, 2012b. Risk Assessment Guidance for Investigations and Remediation
USEPA, 2004b. Risk Assessment Guidance for Superfund Volume I, Part E Supplemental Guidance for Dermal Risk Assessment
kg = Kilograms
days/year = Days per year
cm^2/day = Square centimeters per day
event/day = Events per day
hr/event = Hours per event

Table 8-8(a)
Toxicity and Physical/Chemical Parameters for Outdoor Inhalation of Vapors from Groundwater
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Chemical	Molecular Weight MW (g/mol)	Organic carbon partition coefficient K_{oc} (cm^3/g)	Diffusivity in air D_a (cm^2/s)	Diffusivity in water D_w (cm^2/s)	Pure component water solubility S (mg/L)	Henry's law constant H' (unitless)	Unit risk factor URF $(\mu g/m^3)^{-1}$	Reference concentration RfC (mg/m^3)
1,2-Dichlorobenzene	1.47E+02	3.83E+02	5.62E-02	8.92E-06	1.56E+02	7.85E-02	NA	2.00E-01
1,2-Dichloroethane	9.90E+01	3.96E+01	8.57E-02	1.10E-05	8.60E+03	4.82E-02	2.60E-05	7.00E-03
1,2-Dichloropropane	1.13E+02	6.07E+01	7.33E-02	9.73E-06	2.80E+03	1.15E-01	1.00E-05	4.00E-03
Acetone	5.81E+01	2.36E+00	1.06E-01	1.15E-05	1.00E+06	1.43E-03	NA	3.10E+01
Benzene	7.81E+01	1.46E+02	8.95E-02	1.03E-05	1.79E+03	2.27E-01	7.80E-06	3.00E-02
Bromoform	2.53E+02	3.18E+01	3.57E-02	1.04E-05	3.10E+03	2.19E-02	1.10E-06	NA
Bromomethane	9.49E+01	1.32E+01	1.00E-01	1.35E-05	1.52E+04	3.00E-01	NA	5.00E-03
sec-Butylbenzene	1.34E+02	1.33E+03	5.28E-02	7.34E-06	1.76E+01	7.20E-01	NA	NA
tert-Butylbenzene	1.34E+02	1.00E+03	5.30E-02	7.37E-06	2.95E+01	5.40E-01	NA	NA
Chloromethane	5.05E+01	1.32E+01	1.24E-01	1.36E-05	5.32E+03	3.61E-01	NA	9.00E-02
Dibromochloromethane	2.08E+02	3.18E+01	3.66E-02	1.06E-05	2.70E+03	3.20E-02	2.70E-05	NA
Isopropylbenzene	1.20E+02	6.98E+02	6.03E-02	7.86E-06	6.13E+01	4.70E-01	NA	4.00E-01
Methyl ethyl ketone	7.21E+01	4.51E+00	9.14E-02	1.02E-05	2.23E+05	2.33E-03	NA	5.00E+00
n-Propylbenzene	1.20E+02	8.13E+02	6.02E-02	7.83E-06	5.22E+01	4.29E-01	NA	1.00E+00

Notes:
NA = Not available
Value in normal font obtained from the Regional Screening Level (RSL) Summary Table November 2013 (USEPA, 2013)
cm^3/g = Cubic centimeters per gram
cm^2/s = Square centimeters per second
mg/L = Milligrams per Liter
g/mol = Grams per mole
mg/m^3 = Milligrams per cubic meter
$\mu g/m^3$ = Micrograms per cubic meter

Table 8-8(b)
Exposure Factors Used for Calculating Target Levels for Outdoor Inhalation of Vapors from Groundwater
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Parameter	Symbol	Unit	Values Used	Source
Averaging time for carcinogen	ATc	days	25,550	NMED, 2012b
Averaging time for non-carcinogen	ATnc	days	ED*365	NMED, 2012b
Body weight for adult	BWa	kg	70	NMED, 2012b
Exposure duration for construction workers	ED_{CW}	years	1	NMED, 2012b
Exposure frequency for construction workers	EF_{CW}	days/year	250	NMED, 2012b
Exposure time for construction workers	ET_{CW}	Unitless	0.33	NMED, 2012b

Notes:
NMED = New Mexico Environment Department
NMED, 2012b. Risk Assessment Guidance for Investigations and Remediation
kg = Kilograms
days/year = Days per year

Table 8-8(c)
Fate and Transport Parameters Used for Calculating Outdoor Inhalation of Vapors from Groundwater
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

Parameter	Symbol	Unit	Value Used	Source
Mean annual wind speed	U_m	m/s	4.02	NMED, 2012b
Breathing zone height	δ_a	cm	200	ASTM, 1995
Depth to groundwater	L_{GW}	cm	387	Site-specific
Thickness of capillary fringe[1]	h_{cap}	cm	18.8	USEPA, 2004a
Dimension of source area parallel to wind direction[2]	W_{ga}	cm	10,058	Site-specific
Soil dry bulk density in vadose zone[1]	ρ_b	g/cm^3	1.62	USEPA, 2004a
Soil total porosity in vadose zone[1]	n	unitless	0.39	USEPA, 2004a
Soil water-filled porosity in vadose zone[1]	θ_{wv}	cm^3/cm^3	0.076	USEPA, 2004a
Soil total porosity in capillary fringe[3]	n_{cap}	unitless	0.39	Professional Judgment
Soil water-filled porosity in capillary fringe[4]	θ_{wcap}	cm^3/cm^3	0.351	Professional Judgment

Notes:
ASTM = American Society for Testing and Materials
NMED = New Mexico Environment Department
ASTM, 1995. Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites
NMED, 2012b. Risk Assessment Guidance for Investigations and Remediation
USEPA, 2004a. User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings
1 = Obtained from USEPA (2004a) for site-specific soil type of loamy sand
2 = Since this is not a sensitive parameter and wind direction is variable, conservatively the longer area dimension of 330 ft (10,058 cm) was used.
3 = Soil total porosity in capillary fringe was assumed to be same as in vadose zone.
4 = Water-filled porosity in capillary fringe was assumed to be 90% of the water-filled porosity in vadose zone.
m/s = meters per second
cm = centimeters
g/cm^3 = grams per cubic centimeter
cm^3/cm^3 = cubic centimeters per cubic centimeter

Table 8-9(a)
Summary of Calculated Risk for Future Resident
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

COPCs	Indoor Inhalation of Vapors from Groundwater				
	Representative Concentration (mg/L)	Target Level (mg/L)		Risk	
		Carcinogenic	Non-carcinogenic	Carcinogenic	Non-carcinogenic
1,2-Dichlorobenzene	0.0002575	NA	3.02E+01	N/A	8.53E-06
1,2-Dichloroethane	0.0272	1.19E-01	9.25E-01	2.29E-06	2.94E-02
1,2-Dichloropropane	0.00302	2.65E-01	4.54E-01	1.14E-07	6.66E-03
Acetone	0.00711	NA	1.89E+04	N/A	3.77E-07
Benzene	0.000654	2.18E-01	2.19E+00	3.00E-08	2.99E-04
Bromoform	0.00232	4.62E+00	NA	5.02E-09	N/A
Bromomethane	ND	NA	2.54E-01	N/A	N/A
sec-Butylbenzene	0.00287	NA	NA	N/A	N/A
tert-Butylbenzene	0.00202	NA	NA	N/A	N/A
Chloromethane	0.00241	NA	3.51E+00	N/A	6.86E-04
Dibromochloromethane	0.00124	1.59E-01	NA	7.79E-08	N/A
Isopropylbenzene	ND	NA	2.73E+01	N/A	N/A
Methyl ethyl ketone	0.0392	NA	2.38E+03	N/A	1.64E-05
n-Propylbenzene	ND	NA	7.19E+01	N/A	N/A
		Cumulative Risks		3E-06	4E-02

Notes:
COPC = Chemical of potential concern
mg/L = Milligrams per liter
N/A = Not applicable
NA = Not available
NOC = Not of concern since calculated target concentration exceeds water solubility

Table 8-9(b)
Summary of Calculated Risk for Future Construction Worker
Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico

COPCs	Dermal Contact with Groundwater					Outdoor Inhalation of Vapors from Groundwater					Total Risk	
	Rep. Conc. (mg/L)	Target Level (mg/L)		Risk		Rep. Conc. (mg/L)	Target Level (mg/L)		Risk			
		C	NC	C	NC		C	NC	C	NC	C	NC
Fluoride	4.48	NA	1.24E+03	N/A	3.62E-03	4.48	Not Volatile		N/A	N/A	N/A	3.62E-03
Nitrate	12.9	NA	4.96E+04	N/A	2.59E-04	12.9	Not Volatile		N/A	N/A	N/A	2.59E-04
Chloride	2759	NA	NA	N/A	N/A	2759	Not Volatile		N/A	N/A	N/A	N/A
Sulfate	5137	NA	NA	N/A	N/A	5137	Not Volatile		N/A	N/A	N/A	N/A
Aluminum (Dissolved)	0.145	NA	3.10E+04	N/A	4.68E-06	0.145	Not Volatile		N/A	N/A	N/A	4.68E-06
Antimony (Dissolved)	0.0221	NA	1.86E+00	N/A	1.19E-02	0.0221	Not Volatile		N/A	N/A	N/A	1.19E-02
Asenic (Dissolved)	0.0254	1.45E+01	9.29E+00	1.76E-08	2.73E-03	0.0254	Not Volatile		N/A	N/A	1.76E-08	2.73E-03
Iron (Dissolved)	3.37	NA	2.17E+04	N/A	1.55E-04	3.37	Not Volatile		N/A	N/A	N/A	1.55E-04
Lead (Dissolved)	0.043	NA	NA	N/A	N/A	0.043	Not Volatile		N/A	N/A	N/A	N/A
Manganese (Dissolved)	1.83	NA	2.97E+01	N/A	6.16E-02	1.83	Not Volatile		N/A	N/A	N/A	6.16E-02
Thallium (Dissolved)	0.0114	NA	3.10E-01	N/A	3.68E-02	0.0114	Not Volatile		N/A	N/A	N/A	3.68E-02
Vanadium (Dissolved)	0.122	NA	4.03E+00	N/A	3.03E-02	0.122	Not Volatile		N/A	N/A	N/A	3.03E-02
1,2-Dichlorobenzene	0.0002575	NA	2.68E+01	N/A	9.60E-06	0.0002575	NA	NOC	N/A	N/A	N/A	9.60E-06
1,2-Dichloroethane	0.0272	3.22E+01	2.51E+01	8.45E-09	1.08E-03	0.0272	7.08E+03	1.84E+03	3.84E-11	1.48E-05	8.48E-09	1.10E-03
1,2-Dichloropropane	0.00302	4.27E+01	1.98E+02	7.07E-10	1.53E-05	0.00302	1.58E+04	9.06E+02	1.91E-12	3.33E-06	7.08E-10	1.86E-05
Acetone	0.00711	NA	3.77E+04	N/A	1.89E-07	0.00711	NOC	NOC	N/A	N/A	N/A	1.89E-07
Benzene	0.000654	1.69E+01	5.31E+00	3.87E-10	1.23E-04	0.000654	NOC	NOC	N/A	N/A	3.87E-10	1.23E-04
Bromoform	0.00232	2.53E+02	5.71E+01	9.17E-11	4.06E-05	0.00232	NOC	NOC	N/A	N/A	9.17E-11	4.06E-05
Bromomethane	ND	NA	8.86E+00	N/A	N/A	ND	NA	5.08E+02	N/A	N/A	N/A	N/A
sec-Butylbenzene	0.00287	NA	4.83E+00	N/A	5.94E-04	0.00287	NOC	NOC	N/A	N/A	N/A	5.94E-04
tert-Butylbenzene	0.00202	NA	9.77E+00	N/A	2.07E-04	0.00202	NOC	NOC	N/A	N/A	N/A	2.07E-04
Chloromethane	0.00241	3.62E+02	NA	6.65E-11	N/A	0.00241	NOC	NOC	N/A	N/A	6.65E-11	N/A
Dibromochloromethane	0.00124	2.58E+01	6.19E+01	4.81E-10	2.00E-05	0.00124	NOC	NOC	N/A	N/A	4.81E-10	2.00E-05
Isopropylbenzene	ND	NA	1.77E+01	N/A	N/A	ND	NOC	NOC	N/A	N/A	N/A	N/A
Methyl ethyl ketone	0.0392	NA	1.26E+04	N/A	3.12E-06	0.0392	NOC	NOC	N/A	N/A	N/A	3.12E-06
n-Propylbenzene	ND	NA	1.77E+01	N/A	N/A	ND	NOC	NOC	N/A	N/A	N/A	N/A
									Cumulative Risks		3E-08	1E-01

Notes:
--- = Not a COPC
C = Carcinogenic
COPC = Chemical of potential concern
mg/L = Milligrams per liter
N/A = Not applicable
NA = Not available
NC = Non-carcinogenic
NOC = Not of concern since calculated target concentration exceeds water solubility

ATTACHMENT A

NMED SD-08 CORRESPONDENCE (2005 – 2014)

A-1

Disapproval: RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08, Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-07-007 (NMED, May 12, 2012)

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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DAVE MARTIN
Secretary

BUTCH TONGATE
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 14, 2012

A. David Budak
Deputy Base Civil Engineer
550 Tabosa Avenue
Holloman AFB, NM 88330-5840

RE: DISAPPROVAL
RCRA FACILITY INVESTIGATION REPORT, BUILDING 131 WASHRACK, SITE SD-08
HOLLOMAN AIR FORCE BASE, EPA ID # NM6572124422
HWB-HAFB-07-007

Dear Mr. Budak:

The New Mexico Environment Department (NMED) has reviewed Holloman Air Force Base's (the Permittee's) RCRA Facility Investigation (RFI) Report for Site SD-08 (SWMU 82) dated July 2007 and received on August 1, 2007. Upon review, NMED has identified the following deficiencies that must be addressed:

1. <u>Page 2-5, Section 2.3.4 and Appendix A-5</u>

This Section refers to a Decision Document that appears in Appendix A-5 that authorized the placement of an asphalt cap over the contaminated soils at the site and the installation of a fence to restrict access to the site as a preferred remedial action. This Decision Document was signed by the Secretary of the NMED on September 29, 1995 and the HAFB Commander on November 3, 1995. The Decision Document required that annual inspection and maintenance of the cap be conducted as well as a requirement for long-term groundwater monitoring (LTM). The Decision Document also required that a review be conducted within five years to ensure that the remedy continues to provide adequate protection to human health and the environment.

NMED acknowledges that LTM activities have commenced at the site, but no evidence has been submitted that shows that the annual inspections were conducted or that any 5-year reviews were conducted. Therefore, the Permittee shall submit an inspection and maintenance plan for the cap for NMED approval that satisfies the requirements of the Decision Document.

The following comments refer to the Risk Based Evaluation presented in Section 8 of the RFI Report.

General Comment

2. Although site concentrations were compared with risk-based target levels in soil and groundwater, incremental risks and hazard indices were not calculated for the receptors that were evaluated in the risk assessment. Incremental risks and hazard indices must be calculated in order to adequately characterize the total risk to receptors that may be present at the site. Furthermore, risks and hazards from all potentially completed exposure pathways (including soil and groundwater pathways) must be summed for each receptor to characterize cumulative risks and hazards before any conclusion of whether concentrations may be considered protective of future receptors at the site.

The Permittee shall modify the risk assessment to present cumulative risks and hazards including all completed exposure pathways for each receptor.

Specific Comments

3. **Page 8-5, Section 8.3.3.1**

This Section indicates that residential receptors would be exposed to surficial soil. Per NMED's Soil Screening Guidance, residential receptors are expected to be exposed to soil from zero (0) to 10 feet below ground surface (ft bgs). The footnotes of Table 8-4(a) indicate that surface soil is defined as 0 to 2 ft bgs and that subsurface soil is assumed to the between two (2) ft bgs and the groundwater table. Based upon a review of the data provided in Tables 8-2(a) and 8-2(b), it appears that all soil results, including those collected from 10-12 ft bgs, were included in determining the exposure point concentrations (EPCs). In reviewing the data, there is a decreasing trend in concentrations with depth, therefore use of an EPC based on a more "surficial" soil is most likely conservative. However, the exposure depth evaluated for the residential scenario (and for each receptor) should include subsurface soil (to a depth of 10 ft bgs or the water table) and be clearly stated in the text.

The Permittee shall clarify whether all of the data provided in Table 8-2(b) were included in the risk assessment EPC determinations or whether data below 2 ft bgs were eliminated.

4. Page 8-7, Section 8.4.3.1

This Section indicates that the toxicity values presented in the Johnson and Ettinger (J&E) model were used to calculate target indoor air concentrations. Utilization of toxicity data contained in the J&E model is not always appropriate as it may not be the most current or may not follow the same hierarchy of sources outlined in NMED's Soil Screening Guidance or per EPA guidance.

The Permittee shall review the toxicity data used in the J&E modeling and discuss whether use of current toxicity data (if there are differences) would result in any change to the risk conclusions and total risk/hazard.

5. Page 8-9, Section 8.5

The following text is taken from Section 8.5, "For the chemicals whose maximum detected concentration exceeded the target levels, the average concentrations were compared with the target levels. The average concentrations are more representative of the concentrations. To calculate the average concentrations, the nondetect values were replaced with ½ the detection limits." The following comments apply to this statement:

a) The use of an arithmetic average is inappropriate for risk assessment and may underestimate potential risks and hazards. Further, it is not clear that use of an average concentration was acceptable practice at the time this report was drafted. US EPA now recommends the use of a 95% upper confidence limit (UCL), which is an estimate of the mean, as a representative exposure point concentration for risk assessments.

   The Permittee shall replace the average concentrations with the 95% UCL for the exposure point concentrations and provide a discussion of any change in risk conclusions that may occur.

b) While, historically, the use of an arithmetic average of detection levels or simple substitution for non-detects with one-half the detection level was common practice, these simple substitution methods are no longer deemed appropriate for risk assessments. Studies have shown the use of these simple substitution methods may underestimate potential risks and hazards. US EPA's ProUCL User's Guide states that, "*It should be noted that for data sets with NDs [non-detects], the DL/2 substitution method has been incorporated in ProUCL 4.0 only for historical reasons and also for its current default use. It is well known that the DL/2 [detection limit] method (with NDs replaced by DL/2) does not perform well (e.g., Singh, Maichle, and Lee (EPA, 2006) even when the percentage of NDs is only 5%-10%. It is strongly suggested to avoid the use of DL/2 method for*

estimation and hypothesis testing approaches used in various environmental applications. Also, when the % of NDs becomes high (e.g., > 40%-50%), it is suggested to avoid the use of parametric MLE methods. For data sets with high percentage of NDs (e.g., > 40%), the distributional assumptions needed to use parametric methods are hard to verify; and those parametric MLE methods may yield unstable results." Use of simple substitution may also result in an underestimation of the exposure point concentration. In lieu of the proposed methods applied in this report, ProUCL provides several other methods for handling censored data to include regression on order statistics (ROS). As the use of simple substitution tests for censored data are not a currently accepted practice, determination of the EPC for censored data sets should be revised to reflect current guidance.

The Permittee shall modify the risk assessment to utilize alternative methods for calculating UCLs with datasets containing non-detects, such as those recommended by US EPA's ProUCL User's Guide.

6. <u>Table 8-4(a)</u>

This Table lists dermal contact with groundwater as an incomplete exposure pathway for the residential receptor. However, the exposure interval for a residential receptor is 0-10 ft bgs. The water table is noted as being as high as 6 ft bgs, meaning that it is plausible that a resident digging in their yard could come into contact with potentially contaminated groundwater and have some dermal and incidental ingestion exposures. However, the risk from these pathways is typically minor and most likely would not contribute significantly to risk.

The Permittee shall classify the "dermal contact with groundwater" pathway as being potentially complete. While inclusion of a quantitative analysis probably will not change the overall risk conclusions, the report should qualitatively address this pathway.

7. <u>Appendix G</u>

The Johnson and Ettinger (J&E) input spreadsheets provided as Appendix G show that soil and groundwater target levels were calculated for both a child resident (which utilized a value of 6 years for the exposure duration and the averaging time for non-carcinogens) and an adult resident (which utilized a value of 24 years for the exposure duration and the averaging time for non-carcinogens). Calculation of both adult and child target levels is not necessary as the algorithms employed by the J&E model do not take into account the body weight of receptors. In addition, a value of 30 years should be used for the residential exposure duration and averaging time for non-carcinogens, which is the residential default value recommended in the User's Guide to the J&E model. It is noted that the soil and groundwater target levels presented in Tables 8.9(a) and 8.9(b) are

the target levels based on the exposure duration of 24 years. However, the target levels based on the exposure duration of 24 years for several COPCs are less conservative than those that would be calculated by applying the exposure duration of 30 years.

The Permittee shall update the J&E model to use the exposure duration of 30 years for residential receptors.

8. <u>Appendix H</u>

The equation outlined in Appendix H for the estimation of risk-based target levels in outdoor air ($RBTL_{oo}$) was adapted from US EPA's 1989 *Risk Assessment Guidance for Superfund: Part A*, as noted. This equation estimates intakes (i.e., mg/kg-day) via inhalation through the consideration of body weight and inhalation slope factors or reference doses. The more recent US EPA (1996) *Soil Screening Guidance: User's Guide* does not recommend estimating intakes. Rather, the volatilization factor is applied to inhalation unit risk factors or reference concentrations (adjusted for exposure frequency, duration, and time). As the 1996 guidance was available at the time this report was drafted, the more currently methodology should have been used.

The Permittee shall determine whether the usage of the more current US EPA (1996) Soil Screening Guidance would result in significant changes to the cumulative risk and hazard calculations for the construction worker.

The Permittee must submit a revised RFI Report that corrects the deficiencies noted above by **July 11, 2012**. As part of the response letter that accompanies the revised Report, the Permittee shall include a table that details where all revisions have been made to the Report and that cross-references NMED's numbered comments. All submittals (including figures and tables) must be in the form of two paper copies and one electronic copy (in MS Word™ format). In addition, the Permittees must submit an electronic redline-strikeout version that includes all changes and edits to the Report.

If you have any questions regarding this matter, please contact David Strasser of my staff at (505) 222-9526.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: W. Moats, NMED HWB
C. Amindyas, NMED HWB
D. Strasser, NMED HWB
C. Hendrickson, EPA-Region 6 (6PD-N)
File: HAFB 2012 and Reading
HWB HAFB-07-007

A-2

Response to NMED Comments: *RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08, Holloman Air Force Base, New Mexico*, Bhate, July 2007 (Bhate July 6, 2012)

Comments RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08 Holloman Air Force Base, New Mexico, July, 2007				
Comment No.	**Section**	**Page**	**Comment**	**Response**
Author: John F. Kieling NMED-Hazardous Waste Bureau			**Date of Comments: May 14, 2012**	**Date of Response: July 6, 2012**
1	2.3.4 & Appendix A-5	Page 2-5	This Section refers to a Decision Document that appears in Appendix A-5 that authorized the placement of an asphalt cap over the contaminated soils at the site and the installation of a fence to restrict access to the site as a preferred remedial action. This Decision Document was signed by the Secretary of the NMED on September 29, 1995 and the HAFB Commander on November 3, 1995. The Decision Document required that annual inspection and maintenance of the cap be conducted as well as a requirement for long term groundwater monitoring (LTM). The Decision Document also required that a review be conducted within five years to ensure that the remedy continues to provide adequate protection to human health and the environment. NMED acknowledges that LTM activities have commenced at the site, but no evidence has been submitted that shows that the annual inspections were conducted or that any 5-year reviews were conducted. Therefore, the Permittee shall submit an inspection and maintenance plan for the cap for NMED approval that satisfies the requirements of the Decision Document.	Ten years of groundwater monitoring and inspections were performed as required by the NMED approved September 29, 1995 Decision Document (Radian, 1995) for Site SD-08 and several others. During the HAFB ERP Five Year Review meeting held a HAFB, NM on April 21, 2004, all these sites were rejected for NFA status by the NMED. The reasoning for the rejection was that NMED did not have to follow agreements reached by USEPA and that additional characterization was necessary before any site could be considered for NFA status. Holloman then submitted a work plan for an additional investigation of site SD-08 in August 2005 (Bhate, 2005) and submitted a RCRA Facility Investigation report in July 2007 (Bhate, 2007). This RFI included the collection and analysis of soil samples from beneath the engineered cap to assess the current concentrations of pesticides (and other constituents) remaining in soil beneath the cap. These results revealed that the pesticides originally identified during previous investigations were either not present or, if present, were substantially below the NMED residential soil screening levels. Additionally, further annual asphalt cap inspections were not necessary or required since they were part of the rejected original agreement (1995 Decision Document).

Comments RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08 Holloman Air Force Base, New Mexico, July, 2007				
Comment No.	**Section**	**Page**	**Comment**	**Response**
The following comments refer to the Risk Based Evaluation presented in Section 8 of the RFI Report.				
2	8	General	Although site concentrations were compared with risk-based target levels in soil and groundwater, incremental risks and hazard indices were not calculated for the receptors that were evaluated in the risk assessment. Incremental risks and hazard indices must be calculated in order to adequately characterize the total risk to receptors that may be present at the site. Furthermore, risks and hazards from all potentially completed exposure pathways (including soil and groundwater pathways) must be summed for each receptor to characterize cumulative risks and hazards before any conclusion of whether concentrations may be considered protective of future receptors at the site. The Permittee shall modify the risk assessment to present cumulative risks and hazards including all completed exposure pathways for each receptor.	Holloman is currently performing 8 quarters of groundwater monitoring at Site SD-08 as required by NMED. The current SD-08 groundwater monitoring program will generate additional data which will be utilized for conducting a revised human health risk assessment for current (construction worker) and future receptors (construction worker and residents [adult and child]) at the completion of monitoring (December 2013). At that time, all data collected from Site SD-08 (from the 2007 RFI and the 8 quarters of groundwater monitoring) will be evaluated in order to determine the appropriate site closure or Corrective Action Complete (CAC) site status. Furthermore, the revised SD-08 will risk assessment will be included in the revised SD-08 RFI Report and performed in accordance with approved NMED risk assessment guidance. It is currently anticipated that the revised SD-08 RFI Report will be completed in 2014.

Comments RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08 Holloman Air Force Base, New Mexico, July, 2007				
Comment No.	**Section**	**Page**	**Comment**	**Response**
3	8.3.3.1	8-5	This Section indicates that residential receptors would be exposed to surficial soil. Per NMED's Soil Screening Guidance, residential receptors are expected to be exposed to soil from zero (0) to 10 feet below ground surface (ft bgs). The footnotes of Table 8-4(a) indicate that surface soil is defined as 0 to 2 ft bgs and that subsurface soil is assumed to the between two (2) ft bgs and the groundwater table. Based upon a review of the data provided in Tables 8-2(a) and 8-2(b), it appears that all soil results, including those collected from 10-12 ft bgs, were included in determining the exposure point concentrations (EPCs). In reviewing the data, there is a decreasing trend in concentrations with depth, therefore use of an EPC based on a more "surficial" soil is most likely conservative. However, the exposure depth evaluated for the residential scenario (and for each receptor) should include subsurface soil (to a depth of 10ft bgs or the water table) and be clearly stated in the text. The Permittee shall clarify whether all of the data provided in Table 8-2(b) were included in the risk assessment EPC determinations or whether data below 2 ft bgs were eliminated.	See Response to Comment #2.
4	8.4.3.1	8-7	This Section indicates that the toxicity values presented in the Johnson and Ettinger (J&E) model were used to calculate target indoor air concentrations. Utilization of toxicity data contained in the J&E model is not always appropriate as it may not be the most current or may not follow the same hierarchy of sources outlined in NMED's Soil Screening Guidance or per EPA guidance. The Permittee shall review the toxicity data used in the J&E modeling and discuss whether use of current toxicity data (if there are differences) would result in any change to the risk conclusions and total risk/hazard.	See Response to Comment #2.

Comments RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08 Holloman Air Force Base, New Mexico, July, 2007				
Comment No.	**Section**	**Page**	**Comment**	**Response**
5	8.5	8-9	The following text is taken from Section 8.5, "For the chemicals whose maximum detected concentration exceeded the target levels, the average concentrations were compared with the target levels. The average concentrations are more representative of the concentrations. To calculate the average concentrations, the nondetect values were replaced with ½ the detection limits." The following comments apply to this statement: a) The use of an arithmetic average is inappropriate for risk assessment and may underestimate potential risks and hazards. Further, it is not clear that use of an average concentration was acceptable practice at the time this report was drafted. US EPA now recommends the use of a 95% upper confidence limit (UCL), which is an estimate of the mean, as a representative exposure point concentration for risk assessments. The Permittee shall replace the average concentrations with the 95% UCL for the exposure point concentrations and provide a discussion of any change in risk conclusions that may occur. b) While, historically, the use of an arithmetic average of detection levels or simple substitution for non-detects with one-half the detection level was common practice, these simple substitution methods are no longer deemed appropriate for risk assessments. Studies have shown the use of these simple substitution methods may underestimate potential risks and hazards. US EPA's ProUCL User's Guide states that, *"It should be noted that for data sets with NDs [nondetects], the DL/2 substitution method has been incorporated in ProUCL 4.0 only for historical reasons and also for its current default use. It is well known that the DL/2 [detection limit] method (with NDs replaced by DL/2) does not perform well (e.g., Singh, Maichle, and Lee (EPA, 2006) even when the percentage ofNDs is only 5%-10%. It is strongly suggested to avoid the use of DL/2 method for estimation and hypothesis testing approaches used in various environmental applications. Also, when the% ofNDs becomes high (e.g., > 40%-50%), it is suggested to avoid the use of parametric MLE methods. For data sets with high*	See Response to Comment #2.

Comments RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08 Holloman Air Force Base, New Mexico, July, 2007				
Comment No.	**Section**	**Page**	**Comment**	**Response**
			percentage of NDs (e.g., > 40%), the distributional assumptions needed to use parametric methods are hard to verify; and those parametric MLE methods may yield unstable results." Use of simple substitution may also result in an underestimation of the exposure point concentration. In lieu of the proposed methods applied in this report, ProUCL provides several other methods for handling censored data to include regression on order statistics (ROS). As the use of simple substitution tests for censored data are not a currently accepted practice, determination of the EPC for censored data sets should be revised to reflect current guidance. The Permittee shall modify the risk assessment to utilize alternative methods for calculating UCLs with datasets containing non-detects, such as those recommended by US EPA's ProUCL User's Guide.	
6	8	Table 8-4(a)	This Table lists dermal contact with groundwater as an incomplete exposure pathway for the residential receptor. However, the exposure interval for a residential receptor is 0-10 ft bgs. The water table is noted as being as high as 6 ft bgs, meaning that it is plausible that a resident digging in their yard could come into contact with potentially contaminated groundwater and have some dermal and incidental ingestion exposures. However, the risk from these pathways is typically minor and most likely would not contribute significantly to risk. The Permittee shall classify the "dermal contact with groundwater" pathway as being potentially complete. While inclusion of a quantitative analysis probably will not change the overall risk conclusions, the report should qualitatively address this pathway.	See Response to Comment #2.
7	8	Appendix G	The Johnson and Ettinger (J&E) input spreadsheets provided as Appendix G show that soil and groundwater target levels were calculated for both a child resident (which utilized a value of 6 years for the exposure duration and the averaging time for noncarcinogens) and an adult resident (which utilized a value of 24 years for the exposure duration and the averaging time for non-carcinogens). Calculation of both adult and child target levels is not necessary as the algorithms employed by the J&E model do not take into account the	See Response to Comment #2.

Comments RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08 Holloman Air Force Base, New Mexico, July, 2007				
Comment No.	**Section**	**Page**	**Comment**	**Response**
			body weight of receptors. In addition, a value of 30 years should be used for the residential exposure duration and averaging time for non-carcinogens, which is the residential default value recommended in the User's Guide to the J&E model. It is noted that the soil and groundwater target levels presented in Tables 8.9(a) and 8.9(b) are the target levels based on the exposure duration of 24 years. However, the target levels based on the exposure duration of 24 years for several COPCs are less conservative than those that would be calculated by applying the exposure duration of 30 years. The Permittee shall update the J&E model to use the exposure duration of 30 years for residential receptors.	
8	8	Appendix H	The equation outlined in Appendix H for the estimation of risk-based target levels in outdoor air (RBTL00) was adapted from US EPA's 1989 *Risk Assessment Guidance for Superfund: Part A,* as noted. This equation estimates intakes (i.e., mg/kg-day) via inhalation through the consideration of body weight and inhalation slope factors or reference doses. The more recent US EPA (1996) *Soil Screening Guidance: User's Guide* does not recommend estimating intakes. Rather, the volatilization factor is applied to inhalation unit risk factors or reference concentrations (adjusted for exposure frequency, duration, and time). As the 1996 guidance was available at the time this report was drafted, the more currently methodology should have been used. The Permittee shall determine whether the usage of the more current US EPA (1996) Soil Screening Guidance would result in significant changes to the cumulative risk and hazard calculations for the construction worker.	See Response to Comment #2.
9	General		The Permittee must submit a revised RFI Report that corrects the deficiencies noted above by **July 11, 2012.** As part of the response letter that accompanies the revised Report, the Permittee shall include a table that details where all revisions have been made to the Report and that cross references NMED's numbered comments. All submittals (including figures and tables) must be in the form of two paper copies and one electronic copy (in MS Word™ format). In addition, the Permittees must submit an electronic redline-strikeout version that includes all changes and edits to the Report.	See Response to Comment #2.

A-3

Approval: Response to the Notice of Disapproval, RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08, Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-07-007
(NMED, August 24, 2012)

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JAMES H. DAVIS, Ph.D.
Director
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CERTIFIED MAIL - RETURN RECEIPT REQUESTED

August 24, 2012

A. David Budak
Deputy Base Civil Engineer
49 CES/CEVR
550 Tabosa Avenue
Holloman AFB, NM 88330-8458

SUBJECT: APPROVAL
RESPONSE TO THE NOTICE OF DISAPPROVAL, RCRA FACILITY INVESTIGATION REPORT, BUILDING 131 WASHRACK, SITE SD-08, JULY 11, 2012
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HWB-HAFB-07-007

Dear Mr. Budak:

The New Mexico Environment Department (NMED) has reviewed Holloman Air Force Base's July 11, 2012 submittal of the response to the Notice of Disapproval for the above referenced Report dated May 14, 2012. NMED hereby concurs with the responses and agrees that a revised RFI Report for Site SD-08 (SWMU-82) shall be submitted after completion of the previously approved 8 quarters of ground water monitoring at the site.

If you have any questions regarding this matter, please contact David Strasser at (505) 222-9526.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: W. Moats, NMED HWB
C. Amindyas, NMED HWB
D. Strasser, NMED HWB
B. Salem, NMED HWB
B. Hunt, HAFB
C. Hendrickson, EPA, Region 6 (6PD-F)
File: HAFB 2012 and Reading
HAFB-07-007

A-4

Additional Investigation Requirements at Sites - SS-02&05, SD-08, SS-39, Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-04-009 (NMED, February 9, 2005)

State of New Mexico
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BILL RICHARDSON
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DERRITH WATCHMAN-MOORE
DEPUTY SECRETARY

February 9, 2005

Ms. Debbie Hartell
Chief
Environmental Flight
49 CES/CEV
550 Tabosa Ave.
Holloman AFB, NM 88330-8458

RE: ADDITIONAL INVESTIGATION REQUIREMENTS AT SITES - SS-02&05, SD-08, SS-39
HOLLOMAN AIR FORCE BASE
EPA ID# NM6572124422
HWB-HAFB-04-009

Dear Ms. Hartell:

The New Mexico Environment Department (NMED) has reviewed the 2003 Long-Term Groundwater Monitoring Report and older investigation reports for the above referenced sites. Based on this review the NMED has additional concerns and will require additional ground water investigations at these sites. The NMED's current policy (May 15, 1995) regarding the treatment of ground water contamination at Holloman AFB states, in part, that soil and ground water contaminant plumes must be adequately characterized and monitoring wells defining the plumes must be sampled at least annually. NMED interprets "monitoring wells defining the plumes" to include wells located within the plume, particularly in the area of highest contamination, not just the wells defining outside the perimeter of the plume. NMED does not believe the ground water monitoring at the referenced sites conforms to this policy.

The following provides a brief reasoning for requiring the additional work at each site.

Site SS-02/05 (SWMU AOC-T)

This site is currently undergoing a voluntary corrective measures to remove contaminated soils a part of the final remedy and site closure. As part of site closure a final risk assessment must be

performed. The risk assessment will need to look at the ground water exposure pathway in relation to potential vapors impacts under current and future land use scenarios. Currently only one cross-gradient well, MW-02&5-05, within the contaminant plume is being sampled.

NMED believes additional ground water sampling from throughout the contaminant plume is required to support the risk assessment and eventual site closure. Therefore, the following actions must be implemented:

1. A two-year groundwater-sampling program should be initiated. Samples should be collected on a quarterly or semi-annual basis for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs).

2. Ground water samples should be collected from MW-02&5-02. This well is located in the source area with historically the highest concentrations and would provide information on the affects of the soil excavation had on the ground water plume.

3. At least one additional well should be installed approximately 100 feet east of the excavation to better define the ground water plume. The only true down gradient well, MW-02&5-06, is located over 400 feet from the source area. As most petroleum plume are < 400 feet in length, especially at sites with flat gradients, this well is not real useful for monitoring plume characteristics but is better suited as a sentinel well to monitor plume migration. A second well should also be considered to the southeast of MW-02&5-02 based on the historic ground water flow direction.

4. Sampling and review of historical data from other site wells that have not been part of the LTM monitoring program should be performed to ensure that ground water conditions have not changed since the original investigations were performed. Wells such as MW-02&5-01, MW-02&5-07, and S1-MW3 should be included in inital sampling event.

<u>Site SD-08 (SWMU 4 and SWMU 82)</u>

The review of the current and historic ground water potentiometric surface maps presented in the LTM reports indicates a south/southwest ground water flow direction. Based on the location of SWMU 82 (source area) presented in the recently submitted no further action statement of basis (NFA SOB, November 2004), all of the monitoring wells sampled as part of the LTM program are either up gradient or cross-gradient from the known source area. Therefore, site ground water conditions cannot be adequately assessed. In addition, based on the information presented in the NFA SOB the drain field was not adequately characterized.

The following actions must be implemented:

1. As stated in NMED review of the NFA SOB (February 2005), the location of the SWMU 4 drain field must be positively identified and additional characterization must be performed.

2. Monitoring wells must be installed in the former drain field and at or down gradient of the wash rack. Ground water shall be sampled for VOCs, SVOCs, metals, and organochlorine pesticides.

3. Samples from these new wells should be collected on a quarterly or semi-annual basis over a two-year period.

Site SS-39 (SWMUs 165, 177, 179, 181)

As part of the LTM review, the NMED also looked at the original site investigation material presented in the *Phase I RCRA Facility Investigation Report, Table 2 Solid Waste Management Units*, September 1997 report. Based on the review of the original characterization data, it appears that all monitoring wells are installed up gradient of the TCE plume as determined by Geoprobe sampling locations. Ground water samples collected from several Geoprobe locations showed TCE concentrations between 324 *ug*/L and 2730 *ug*/L in locations down gradient of the LTM sampling locations. Additional ground water characterization work was performed in 1998 that defined the ground water plume but no permanent monitoring wells were installed. See the attached map. Also, according to the site summary presented in the HAFB's September 1995 Decision Document, tetrachloroethene (PCE) concentration of 95 mg/kg was detected in the soils around the drainage sumps at Building 1176. This is above the NMED's residential risk based soil screening levels of 9.83 mg/kg.

Therefore, the following actions are required:

1. An in-depth review of previous investigations should be performed and summarized in the work plan. An investigation of the current soil and ground water conditions shall be performed based on the analysis of the historical data.

2. Ground water monitoring wells shall be installed in area of highest contaminant concentrations and at down gradient locations. The distance between well(s) shall be no more than 200 feet, unless approved by NMED. The down gradient extent of the plume shall be defined where the concentration of TCE in the ground water is less than 5 mg/L. The wells shall be installed at the shallowest depth possible to yield representative ground water samples.

3. A vertical extent well shall be installed in the area of highest contaminant concentrations.

4. Initially, samples shall be analyzed for VOCs, SVOCs, RCRA metals, and perchlorate.

5. Samples from these new wells should be collected on a quarterly or semi-annual basis over a two-year period.

Additional requirements for these sites may be required based on the historical information provided in the work plans.

Work plans for the above requirements must be reviewed and approved by the NMED before the work is performed. The work plans shall include detailed summaries of the operational history and investigational history of each site, potential contaminants of concern, proposed monitoring well locations and construction details, analytical parameters and methods, quality controls and any other details as determined by the NMED as necessary to properly investigate each site. The work plans shall be submitted within 90 days from receipt of this letter.

If you have any questions, please contact me at (505) 845-5932.

Sincerely,

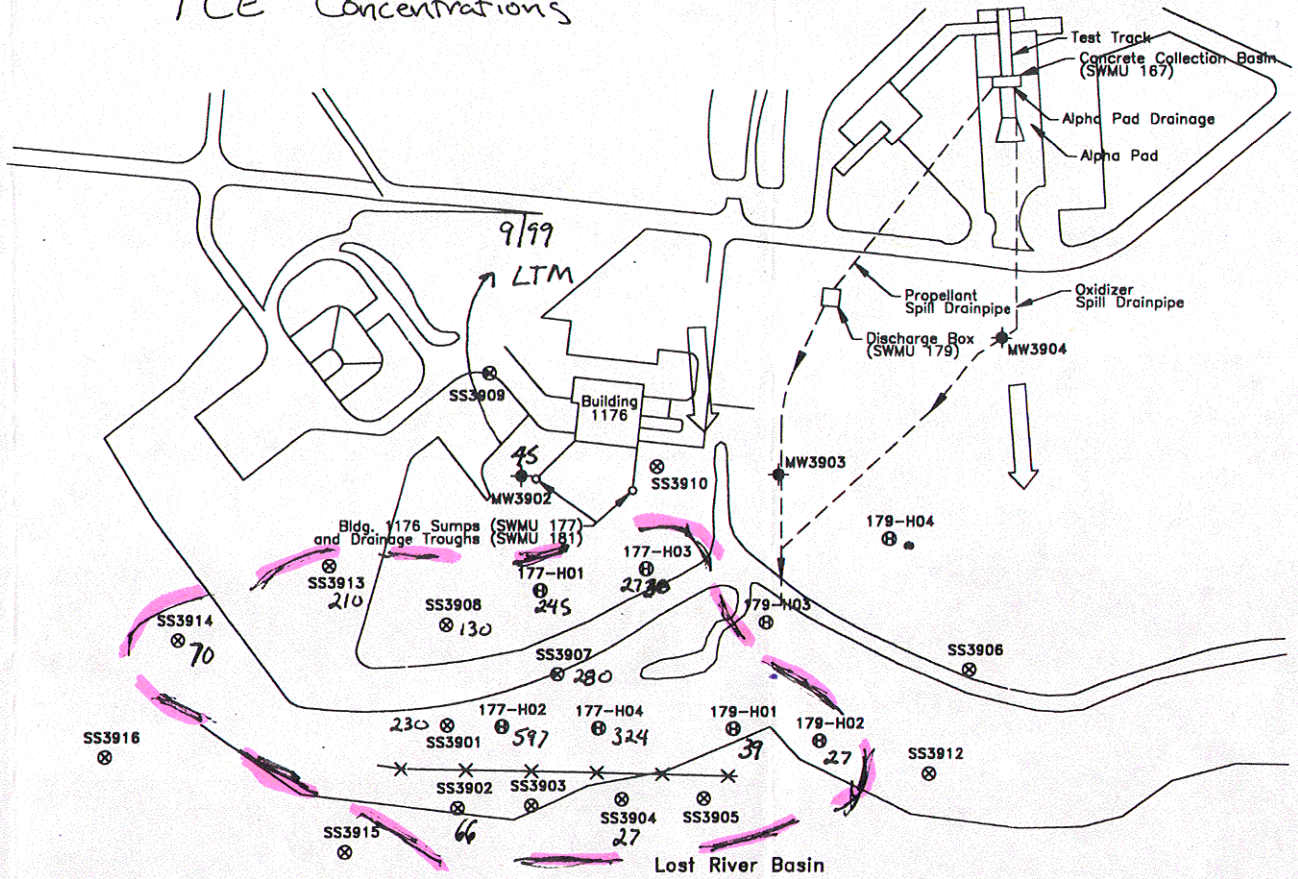
Steve Jetter
Permits Management Program

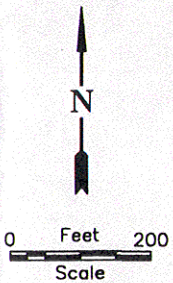
cc: James Bearzi, NMED HWB
John Kieling, NMED HWB
Cornelius Amindyas, NMED HWB
James Harris, EPA-Region 6
Dan Holmquist, HAFB
File: Reading and HAFB-HSWA 2005

SS-39 SWMU 177 & 179

TCE Concentrations

Look in
- Phase II, Table 2 RFI Report
  Radian 1994
  or
- Phase I, Table 2, RFI Report
  Sept 97





LEGEND

- Monitoring Well
- Previous Groundwater Sample Location (1993)
- DPT Groundwater Sample Location 5/98
- Fence
- Groundwater Flow Direction (November, 1991)

0307SS59.DWG (1:200) 08-06-98

Figure 1. SS-39 SITE MAP WITH DPT GROUNDWATER SAMPLING LOCATIO

A-5

Request for Supplemental Information: Additional Investigation Requirements Work Plan, ERP Site SD-08 (SWMU 82 – Building 131 Washrack), May 2005, Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-05-003 (NMED, July 27, 2005)

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DERRITH WATCHMAN-MOORE
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CERTIFIED MAIL
RETURN RECEIPT REQUESTED

July 27, 2005

Ms. Debbie Hartell
Chief
Environmental Flight
49 CES/CEV
550 Tabosa Ave.
Holloman AFB, NM 88330-8458

SUBJECT: REQUEST FOR SUPPLEMENTAL INFORMATION: ADDITIONAL INVESTIGATION REQUIREMENTS WORK PLAN, ERP SITE SD-08 (SWMU 82 – BUILDING 131 WASHRACK), MAY 2005
HOLLOMAN AIR FORCE BASE
EPA ID# NM6572124422
HWB-HAFB-05-003

Dear Ms. Hartell:

The New Mexico Environment Department (**NMED**) Hazardous Waste Bureau (**HWB**) has reviewed the subject document for technical completeness. Based on that review, NMED has determined that this Work Plan can not be approved at this time as revisions to this Work Plan are necessary. Enclosed is a list of requested revisions, which Holloman Air Force Base (**HAFB**) must address. Please respond to this Request for Supplemental Information (**RSI**) within thirty (30) calendar days of the date of this letter. Failure to respond within this time period may result in the issuance of a Notice of Deficiency. NMED may consider a petition for an extension of the deadline for submittal of the additional information, provided that written justification and the expected submittal date are provided by HAFB.

If you have any questions regarding this matter or if you would like to discuss the comments prior to your response, please contact David Strasser at (505) 222-9526.

Sincerely,

Cornelius Amindyas
HAFB Project Leader
Permits Management Program

CA/ds

cc: James Bearzi, Chief, NMED, HWB
William Moats, NMED, HWB
David Strasser, NMED, HWB
Debra Tellez, EPA, Region 6 (6PD-F)
Dan Holmquist, HAFB
File: Reading and HAFB-HSWA

ATTACHMENT
REQUEST FOR SUPPLEMENTAL INFORMATION
ADDITIONAL INVESTIGATION REQUIREMENTS WORK PLAN,
ERP SITE SD-08 (SWMU 82 – BUILDING 131 WASHRACK), MAY 2005
HOLLOMAN AIR FORCE BASE (HAFB)
EPA ID# NM6572124422

TASK # HWB-HAFB-05-003

The following are NMED's requested revisions to HAFB's Additional Investigation Work Plan for ERP Site SD-08 (SWMU 82), dated May 2005. The quotations in **bold print** are taken directly from the subject document. Please address the comments and submit the revised information as directed in the cover letter.

COMMENTS

1. Page 2-2, Section 2.1.4, "**Monitoring Well Installation**"

   a) NMED requests that during the installation of the new "downgradient well", two soil samples be collected and analyzed as specified in Section 2.1.3, DPT Soil Assessment. Soils at the "upgradient well" will not require analysis.

   b) In correspondence from the NMED dated February 9, 2005, which outlined the requirements for this additional investigation, the Work Plan was to include monitoring well construction details. These details were not included. NMED requests that HAFB submit information regarding well construction details.

2. Page 2-3, Section 2.3, "**Groundwater Sampling**", 1st Sentence

   This sentence indicates that three existing wells will be sampled (MW08-03, MW08-05 and S10-MW01). NMED requests that HAFB collect a groundwater sample from well MW08-01 instead of from well MW08-03. NMED understands that well MW08-01 is cross gradient to the suspected source. However, MW08-01 has a history of VOC detections that should be monitored. In addition, the groundwater from well MW08-03 has been relatively uncontaminated and the proposed "upgradient well" is in close proximity to well MW08-03.

3. Page 3-1, Section 3.2, "**Evaluation of Groundwater Contamination**", 2nd Sentence

   NMED requests that HAFB revise this sentence to read as follows (additions underlined; deletions struck through): "If ~~more than~~ one or more water contaminants affecting human health ~~is~~ are present, the toxic pollutant criteria as set forth in the definition of toxic pollutant in Section ~~20.6.2.1101~~ 20.6.2.7.VV NMAC … ".

A-6

***Notice of Approval: Additional Investigation Requirements Work Plan for ERP Site SD-08 (SWMU 82-Building 131 Washrack), August 2005 (Revision Number 1) Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-05-003* (NMED, December 29, 2005)**

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DEPUTY SECRETARY

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

December 29, 2005

Ms. Debbie Hartell
Chief
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49 CES/CEV
550 Tabosa Ave.
Holloman AFB, NM 88330-8458

SUBJECT: NOTICE OF APPROVAL: ADDITIONAL INVESTIGATION REQUIREMENTS WORK PLAN FOR ERP SITE SD-08 (SWMU 82 – BUILDING 131 WASHRACK), AUGUST 2005 (REVISION NUMBER 1) HOLLOMAN AIR FORCE BASE
EPA ID# NM6572124422
HWB-HAFB-05-003

Dear Ms. Hartell:

The New Mexico Environment Department (**NMED**) has reviewed the Holloman Air Force Base (**HAFB**) "Additional Investigation Work Plan" for technical completeness. NMED hereby approves the work plan for implementation. However, the following comment must be addressed during implementation of the proposed work.

1. <u>Site Figures</u>

NMED requires that when compiling the revised investigation report for which this work plan was prepared, HAFB shall include a coordinate system (i.e., UTM, latitude/ longitude) on all the figures. The boundaries of the site and its coordinates must also be shown. High accuracy (+/-3 ft) GPS coordinates are acceptable. NMED is requiring the inclusion of this information in the Work Plan because Figures 1-4 and 2-1 of the document do not presently contain this coordinate system.

If you have any questions regarding this matter, please contact David Strasser at (505) 222-9526.

Sincerely,

Cornelius Amindyas
HAFB Project Leader
Permits Management Program

CA/dcs

cc: James Bearzi, Chief, NMED, HWB
John Kieling, NMED, HWB
William Moats, NMED, HWB
David Strasser, NMED, HWB
Debra Tellez, EPA, Region 6 (6PD-F)
Dan Holmquist, HAFB
File: Reading and HAFB-HSWA, 2005

A-7

Notice of Approval: Request to Perform Eight Quarters of Groundwater Monitoring, Site SD-08 (SWMU 82) Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-07-007
(NMED, November 22, 2011)

NEW MEXICO ENVIRONMENT DEPARTMENT

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DAVE MARTIN
Cabinet Secretary

BUTCH TONGATE
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

November 22, 2011

A. David Budak
Deputy Base Civil Engineer
550 Tabosa Ave.
Holloman AFB, NM 88330-5840

RE: NOTICE OF APROVAL
REQUEST TO PERFORM EIGHT QUARTERS OF GROUNDWATER MONITORING, SITE SD-08 (SWMU 82)
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HWB-HAFB-07-007

Dear Mr. Budak:

The New Mexico Environment Department (NMED) has reviewed Holloman Air Force Base's November 2, 2011 request to perform eight quarters of groundwater monitoring at Site SD-08 (SWMU 82). The analytical parameters to be collected include Volatile Organic Compounds (VOCs), Target Analyte List (TAL) Metals, Nitrate and Total Dissolved Solids (TDS) from nine (9) existing monitoring wells at the site. A quarterly report is to be submitted to NMED following each sampling event.

Please be advised that the NMED hereby approves this request as proposed. As you know, NMED is presently reviewing a RCRA Facility Investigation Report for this site and is aware that there is petroleum hydrocarbon (TRPH) contamination in the soil above target levels and 1,2-Dichloroethane (1,2-DCA) contamination in groundwater above cleanup standards. A risk assessment in this report concludes that the presence of these contaminants does not present a risk to unrestricted future use of the site. Therefore, the proposed monitoring is anticipated to support this conclusion.

If you have any questions regarding this letter, please contact David Strasser of my staff at (505) 222-9526.

Sincerely,

John E. Kieling
Acting Chief
Hazardous Waste Bureau

cc: W. Moats, NMED HWB
C. Amindyas, NMED HWB
D. Strasser, NMED HWB
L. King, EPA-Region 6 (6PD-N)
File: HAFB 2011 and Reading
HWB-HAFB-07-007

A-8

Conditional Approval: SD-08 Long Term Monitoring Report, Quarter 1, Winter 2012, March 2012 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-12-008 **(NMED, September 20, 2012)**

NEW MEXICO ENVIRONMENT DEPARTMENT

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JAMES H. DAVIS, Ph.D.
Director
Resource Protection Division

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 20, 2012

A. David Budak
Deputy Base Civil Engineer
49 CES/CEVR
550 Tabosa Avenue
Holloman AFB, NM 88330-8458

RE: CONDITIONAL APPROVAL
SD-08 LONG TERM MONITORING REPORT, QUARTER 1, WINTER 2012, MARCH 2012
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HWB-HAFB-12-008

Dear Mr. Budak:

The New Mexico Environment Department (NMED) has reviewed Holloman Air Force Base's (the Permittee's) first Long Term Monitoring Report for SD-08 (SWMU 82) which was received on April 6, 2012. The NMED is approving the Report with the following conditions:

1. On-site monitoring well (MW) SD-08-03 was part of an array of monitoring wells that have been used in the past for the investigation of site LF-10 (SWMUs 101 and 109), which is across Arkansas Avenue to the southeast of site SD-08. The NMED issued a Certificate of Completion for Corrective Action Complete (CAC) With Controls at site LF-10 on March 9, 2012. In the various investigations leading to this CAC determination, MW-SD-08-03 was referred to as MW-S10-07. During the last round of ground water sampling and analysis for MW-S10-07, concentrations of the explosive 2,4-Dinitrotoulene (2,4-DNT) exceeded the EPA Tap Water screening level of 0.22 μg/L at a

level of 57 µg/L. Further sampling of explosives from MW-SD-08-03/S10-07 has not been conducted.

Therefore, the Permittee shall analyze the ground water from MW-SD-08-03 for explosives for two consecutive quarters and provide the results in the subsequent Monitoring Reports.

2. For future ground water monitoring activities at site SD-08, the Permittee is reminded that the NMED requires that samples be analyzed using Total (unfiltered) analysis for mercury and organics and that Dissolved (filtered) analysis be used for all other metals.

3. Page 5-2, Section 5.2.1 - This Section indicates that the approved background concentration for arsenic is 25.93 µg/L. The actual NMED-approved background concentration for arsenic is set at the EPA MCL, or 10 µg/L. Therefore, future Monitoring Reports shall indicate that arsenic was present during this 1st quarterly report above background and the EPA MCL in MWs 08-02, 08-03, 08-06, 08-07 and 08-08. Future Reports shall consider the background for arsenic to be 10 µg/L.

4. Table 3 - For future Reports, under the "Basewide Background" columns, delete the columns referring to "Dissolved Metals in Groundwater" and "Total Groundwater Background Level". Only the NMED-approved background concentrations shall be shown.

If you have any questions regarding this matter, please contact David Strasser at (505) 222-9526.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: W. Moats, NMED HWB
C. Amindyas, NMED HWB
B. Salem, NMED HWB
D. Strasser, NMED HWB
B. Hunt, HAFB
C. Hendrickson, EPA, Region 6 (6PD-F)
File: HAFB 2012 and Reading
HAFB-12-008

A-9

Conditional Approval: SD-08 Long Term Monitoring Report, Quarter 2, Spring 2012, June 2012 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-12-013 **(NMED, October 5, 2012)**

NEW MEXICO ENVIRONMENT DEPARTMENT

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Deputy Secretary

JAMES H. DAVIS, Ph.D.
Director
Resource Protection Division

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 5, 2012

A. David Budak
Deputy Base Civil Engineer
49 CES/CEVR
550 Tabosa Avenue
Holloman AFB, NM 88330-8458

RE: CONDITIONAL APPROVAL
SD-08 LONG TERM MONITORING REPORT, QUARTER 2, SPRING 2012, JUNE 2012
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HWB-HAFB-12-013

Dear Mr. Budak:

The New Mexico Environment Department (NMED) has reviewed Holloman Air Force Base's (the Permittee's) second Long Term Monitoring Report for SD-08 (SWMU 82) which was received on July 16, 2012. The NMED is approving the Report with the following conditions:

1. The NMED agrees with the locations of the three new monitoring wells as proposed in the subject (2nd) Monitoring Report. However, to better define potential sources of contamination that appear to be migrating in an easterly direction from adjoining site AOC-RR onto site SD-08, the Permittee shall install an additional well through the location of the "Suspected Former Underground Storage Tank" on site AOC-RR as shown on Figure 7-1 of the 2nd Monitoring Report. Soil samples from this new borehole, as well as from the borehole of the new well proposed on site AOC-RR adjacent to Building 80, shall be sampled for target analyte list (TAL) metals and volatile organic

compounds (VOCs) at various intervals from 2 to 8 feet below ground surface. Groundwater shall be analyzed as proposed for all other wells.

2. According to the Site Investigation Report (EBASCO, 1995) for adjoining site AOC-RR, well AOC-RR-GP-13 had levels of VOCs in the groundwater above risk-based levels used at that time. Existing well S10-MW02 is located approximately 65 feet south of the former location of well GP-13, and it appears that it (MW02) has not been sampled since September, 1999. Therefore, the Permittee shall include well S10-MW02 in the suite of wells to be sampled for a minimum of 2 quarters. NMED agrees that MW S10-MW06 should also be added to the wells sampled as proposed in the 2nd Monitoring Report. NMED has also determined that general chemical analysis can be discontinued in all wells except for Nitrate, which must still be analyzed for in all wells.

3. The Permittee shall insure that lead is included as a TAL metals analyte in all samples. Lead has previously been detected above NMWQCC standards in MW S10-MW01 and it does not appear to have been analyzed for by the laboratory.

If you have any questions regarding this matter, please contact David Strasser at (505) 222-9526.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: W. Moats, NMED HWB
C. Amindyas, NMED HWB
B. Salem, NMED HWB
D. Strasser, NMED HWB
B. Hunt, HAFB
C. Hendrickson, EPA, Region 6 (6PD-F)
File: HAFB 2012 and Reading
HAFB-12-013

A-10

Approval: SD-08 Long Term Monitoring Report, Quarter 3, Summer 2012, September 2012 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-12-018 **(NMED, March 4, 2013)**

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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Lieutenant Governor

DAVE MARTIN
Secretary

BUTCH TONGATE
Deputy Secretary

THOMAS SKIBITSKI
Acting Director
Resource Protection Division

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

March 4, 2013

MAR 20 2013

A. David Budak
Deputy Base Civil Engineer
49 CES/CEVR
550 Tabosa Avenue
Holloman AFB, NM 88330-8458

RE: APPROVAL
SD-08 LONG TERM MONITORING REPORT, QUARTER 3, SUMMER 2012, SEPTEMBER 2012
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HAFB-12-018

Dear Mr. Budak:

The New Mexico Environment Department has reviewed Holloman Air Force Base's third Long Term Monitoring Report for SD-08 (SWMU 82) which was received on October 29, 2012. The subject report is hereby approved.

If you have any questions regarding this matter, please contact David Strasser at (505) 222-9526.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
W. Moats, NMED HWB
C. Amindyas, NMED HWB
B. Salem, NMED HWB
D. Strasser, NMED HWB
B. Hunt, HAFB
C. Hendrickson, EPA, Region 6 (6PD-F)

File: HAFB 2013 and Reading
HAFB-12-018

A-11

Approval: SD-08 Long Term Monitoring Report, Quarter 4, Fall 2012, December 2012 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-13-001 **(NMED, October 16, 2013)**

NEW MEXICO ENVIRONMENT DEPARTMENT

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RYAN FLYNN
Cabinet Secretary-Designate

BUTCH TONGATE
Deputy Secretary

THOMAS BLAINE, P.E.
Director
Environmental Health Division

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 16, 2013

DeAnna Rothhaupt
Chief, Compliance and Restoration
49 CES/CEAN
550 Tabosa Avenue
Holloman AFB, NM 88330-8261

RE: APPROVAL
SD-08 LONG TERM MONITORING REPORT, QUARTER 4, FALL 2012, DECEMBER 2012
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HWB-HAFB-13-001

Dear Ms. Rothhaupt:

The New Mexico Environment Department has reviewed Holloman Air Force Base's fourth quarter Long Term Monitoring Report for SD-08 (SWMU 82) which was received on March 14, 2013. The subject report is hereby approved.

If you have any questions regarding this matter, please contact Mr. David Strasser of my staff at (505) 222-9526.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
W. Moats, NMED HWB
C. Amindyas, NMED HWB
B. Salem, NMED HWB
D. Strasser, NMED HWB
C. Hendrickson, EPA, Region 6 (6PD-F)

File: HAFB 2013 and Reading
HAFB-13-001

A-12

***Approval: SD-08 Long Term Monitoring Report, Quarter 5, Winter 2013, March 2013 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-13-003* (NMED, November 8, 2013)**

NEW MEXICO ENVIRONMENT DEPARTMENT

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RYAN FLYNN
Cabinet Secretary-Designate

BUTCH TONGATE
Deputy Secretary

THOMAS BLAINE, P.E.
Director
Environmental Health Division

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

November 8, 2013

DeAnna Rothhaupt
Chief, Compliance and Restoration
49 CES/CEAN
550 Tabosa Avenue
Holloman AFB, NM 88330-8261

RE: APPROVAL
SD-08 LONG TERM MONITORING REPORT, QUARTER 5, WINTER 2013, MARCH 2013
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HWB-HAFB-13-003

Dear Ms. Rothhaupt:

The New Mexico Environment Department has reviewed Holloman Air Force Base's fifth quarter Long Term Monitoring Report for SD-08 (SWMU 82) which was received on May 1, 2013. The subject report is hereby approved.

If you have any questions regarding this matter, please contact Mr. David Strasser of my staff at (505) 222-9526.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
W. Moats, NMED HWB
C. Amindyas, NMED HWB
B. Salem, NMED HWB
D. Strasser, NMED HWB
C. Hendrickson, EPA, Region 6 (6PD-F)

File: HAFB 2013 and Reading
HAFB-13-003

A-13

***Approval: SD-08 Long Term Monitoring Report, Quarter 6, Spring 2013, May 2013 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-13-005* (NMED, November 5, 2013)**

NEW MEXICO ENVIRONMENT DEPARTMENT

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RYAN FLYNN
Cabinet Secretary-Designate

BUTCH TONGATE
Deputy Secretary

THOMAS BLAINE, P.E.
Director
Environmental Health Division

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

November 5, 2013

DeAnna Rothhaupt
Chief, Compliance and Restoration
49 CES/CEAN
550 Tabosa Avenue
Holloman AFB, NM 88330-8261

RE: APPROVAL
SD-08 LONG TERM MONITORING REPORT, QUARTER 6, SPRING 2013, MAY 2013
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HWB-HAFB-13-005

Dear Ms. Rothhaupt:

The New Mexico Environment Department has reviewed Holloman Air Force Base's sixth quarter Long Term Monitoring Report for SD-08 (SWMU 82) which was received on June 24, 2013. The subject report is hereby approved.

If you have any questions regarding this matter, please contact Mr. David Strasser of my staff at (505) 222-9526.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
W. Moats, NMED HWB
C. Amindyas, NMED HWB
B. Salem, NMED HWB
D. Strasser, NMED HWB
C. Hendrickson, EPA, Region 6 (6PD-F)
L. King, EPA, Region 6 (6PD-F)

File: HAFB 2013 and Reading
HAFB-13-005

A-14

***Approval: SD-08 Long Term Monitoring Report, Quarter 7, Summer 2013, January 2014 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-13-019* (NMED, June 18, 2014)**

NEW MEXICO ENVIRONMENT DEPARTMENT

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JOHN A. SANCHEZ
Lieutenant Governor

RYAN FLYNN
Cabinet Secretary
BUTCH TONGATE
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 18, 2014

DeAnna Rothhaupt
Chief, Holloman AFB Environmental
49 CES/CEIE
550 Tabosa Avenue
Holloman AFB, NM 88330

RE: APPROVAL
REVISED FINAL SD-08 (SOLID WASTE MANAGEMENT UNIT – 82)
LONG TERM MONITORING REPORT, QUARTER 7, SUMMER 2013, JANUARY 2014
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HWB-HAFB-13-019

Dear Ms. Rothhaupt:

The New Mexico Environment Department has reviewed Holloman Air Force Base's revised seventh quarter Long Term Monitoring Report for SD-08 (SWMU 82) which was received on February 28, 2014. The subject report is hereby approved.

If you have any questions regarding this matter, please contact Mr. David Strasser of my staff at (505) 222-9526. If necessary, you may also contact me by mail at the address shown in the letterhead of this correspondence.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
W. Moats, NMED HWB
C. Amindyas, NMED HWB
D. Strasser, NMED HWB
C. Hendrickson, EPA, Region 6 (6PD-F)

File: HAFB 2014 and Reading
HAFB-13-019

A-15

***Approval: SD-08 Long Term Monitoring Report, Quarter 8, Fall 2013, February 2014 Holloman Air Force Base, EPA ID# NM6572124422 HWB-HAFB-14-002* (NMED, June 18, 2014)**

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RYAN FLYNN
Cabinet Secretary
BUTCH TONGATE
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 18, 2014

DeAnna Rothhaupt
Chief, Holloman AFB Environmental
49 CES/CEIE
550 Tabosa Avenue
Holloman AFB, NM 88330

RE: APPROVAL WITH MODIFICATIONS
SD-08 (SOLID WASTE MANAGEMENT UNIT – 82) LONG TERM MONITORING REPORT, QUARTER 8, FALL 2013, FEBRUARY 2014
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HWB-HAFB-14-002

Dear Ms. Rothhaupt:

The New Mexico Environment Department (NMED) has reviewed Holloman Air Force Base's (the Permittee's) eighth quarter Long Term Monitoring Report for SD-08 (SWMU 82) (Report), which was received on April 22, 2014. The NMED hereby approves the Report subject to the following modifications.

NMED concurs that the western extent of the contaminant plume has not been determined and that additional soil borings/monitoring wells (MWs) are needed to further delineate the source of the contamination. To accomplish this, the Permittee has proposed to install three new MWs in a north/south transect to the west of Building 80 and the suspected AOC-RR underground storage tank locations. The existing monitoring well MW-09-01 is located approximately 250 feet west of the proposed MWs and is not proposed as a sampling location. The Permittee, via the direction in this letter, has the option not to install the middle well of the three proposed MWs at this time; however, the Permittee must sample ground water at MW-09-01 and, during installation and after they are installed, subsurface soil and ground water samples collected from the two other proposed MWs. The soil and ground water samples must be analyzed for the parameters proposed in the Report. Quarterly ground water monitoring shall continue to be

performed until the Permittee receives further direction from the NMED.

If you have any questions regarding this matter, please contact Mr. David Strasser of my staff at (505) 222-9526.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
W. Moats, NMED HWB
C. Amindyas, NMED HWB
D. Strasser, NMED HWB
C. Hendrickson, EPA, Region 6 (6PD-F)

File: HAFB 2014 and Reading
HAFB-14-002

ATTACHMENT B

Technical Memorandum – Temporary Well Installation, SD-08 Holloman Air Force Base, New Mexico
(NationView, September 22, 2014)

(Provided on Enclosed CD)

September 22, 2014

49th Civil Engineering Squadron
Attn: Mr.; David Rizzuto
Holloman AFB, New Mexico 31699

Subject: Technical Memorandum – Temporary Monitoring Well Installation, SD-08
Holloman Air Force Base, New Mexico
Contract No. W9128F-09-D-0055 Task Order No. 0003
NationView Project No: 10-0004

Mr. Rizzuto:

NationView LLC., (NationView) is pleased to provide the Temporary Well Installation memorandum for Holloman Air Force Base, New Mexico. This memorandum identifies the activities completed for installation of temporary wells, soil and groundwater sampling, and abandonment of temporary wells.

The placement of the temporary monitoring wells and subsurface soil and groundwater sampling was completed in order to define the western extent of the SD-08 (Solid Waste Management Unit – 82) site. This field effort was initiated to comply with New Mexico Environment Department Letter, "Approval with Modifications", Dated June 18, 2014 (Attachment A), and developed in accordance communications between 49th Civil Engineer Squadron, Holloman AFB, United States Army Corps of Engineers, Omaha District and NationView. This Technical Memorandum consists of the following sections and documents:

- Background
- Objectives
- Temporary Monitoring Well Installation
- Groundwater Sampling
- Management of Investigation Derived Waste
- Site Restoration
- Groundwater Direction
- Soil Analytical Results
- Groundwater Analytical Results
- Data Validation
- Conclusion
- Attachment A – NMED Letter, "Approval with Modifications", Dated June 18, 2014
- Appendix A – Figures
- Appendix B – Temporary Monitoring Well Construction Diagrams
- Appendix C – Ground Water Sampling Forms
- Appendix D – Tables
- Appendix E – Laboratory Analytical Reports, Chain of Custody Forms
- Appendix F – Data Validation Reports

We appreciate the opportunity to work with you on this project. Please call Fermin Esquibel (256) 713-9494 with any questions you may have, or if NationView can be of additional service.

Sincerely,
NationView, LLC

Fermin R. Esquibel
Environmental Division Manager

Background

Holloman Air Force Base (HAFB) is located in south central New Mexico, in the northwest central portion of Otero County, approximately 75 miles north-northeast of El Paso, Texas. Site SD-08 (SWMU-82) is located in the northeastern portion of the main base area (Appendix A, Figure 1 - Site Vicinity Map). The original SD-08 Site occupied approximately one-half acre and was surrounded by a chain-link fence. Within the fenced area were Building 131, a steam cleaner washrack with associated drains, and an oil water separator. The area was unpaved with sparse vegetation along the fence. Site topography was, and remains, generally flat.

The washrack was installed in 1942 and consisted of a rectangular concrete pad (approximately 1,000 square feet [ft2]). Refuse collection trucks (trash trucks) were routinely washed with soap and water at the washrack. Base records indicate that pesticides were routinely sprayed inside the trucks during the 1970s for fly control; however, this practice ceased in 1982. Drains located at the north end of the washrack connected to a sewer line which carried wastewater to an oil/water separator (O/WS) near the northwest corner of the washrack. According to site personnel, it was common for the sewer line to clog, causing the sump and O/WS to overflow onto surrounding soil. The washrack pad contained cracks in the concrete and was replaced in 1992 with a new washrack in the same location (Foster Wheeler/Radian, 1995). In 1995 the entire yard area was covered with an asphalt cap as part of the remedial measures performed onsite.

Since 1991 Site SD-08 has been the subject of a series of environmental investigations and one remedial action related to pesticide contamination detected in soil and groundwater. The end result of the remedial action was installation of an asphalt cap that covers approximately 41,000 ft2, and a chain link fence surrounding the site to restrict access.

Objectives

The main objective of this phase of the project and the purpose of this Technical Memorandum is to identify the western extent of the SD-08 (SWMU-82) site through the installation of two temporary wells, and the associated soil and groundwater sampling, as identified in the New Mexico Environment Department (NMED) Letter, “Approval with Modifications”, Dated June 18, 2014 (Attachment A). The western boundary of the SD-08 groundwater contaminate plume remains unknown, as SD08-MW10 (Benzene) and SD08-MW11 (1,2-DCA) reported contaminates above their respective USEPA MCLs and NMWQCC standards.

Temporary Monitoring Well Installation

NationView completed the installation of two temporary monitoring wells at the SD-08 site on July 29, 2014. Two borings were advanced to a depth of 20 and 24 feet (ft) below ground surface (bgs), for SD08-TEMP 1 and SD08-TEMP 2 respectively. Soil sampling for this investigation was accomplished using a GeoProbe 6620 Direct Push rig. Samples were collected using a 4-foot Geoprobe Systems® Dual Tube® sampling system for offsite analysis. The Dual Tube® sampling system was advanced continually to a maximum depth of 7-10’ below estimated water levels. Soil samples continued to be collect below estimated water table for analysis and logging purposes. The acetate liner was capped and marked with the borehole number and collections depth on the top and bottom of the liner using an indelible pen. Each boring was visually classified and the lithology described in the field by a qualified on-site Geologist (Environmental Professional), in accordance with the American Society for Testing and Materials (ASTM) 5255. Soils were continuously screened utilizing a photoionization

detector (PID), to assess for contaminated soils. One soil sample, per boring, was collected above groundwater level (entirely within the unsaturated zone), for each boring. Soil collection depth was determined based upon the highest PID reading for the boring, or collected within the 12 inches of soil located above the saturated zone. Subsequent to analysis and logging, soils were contained in 55-gallon drums and characterized for disposal.

Soil samples selected for laboratory analysis were labeled, handled, and prepared for shipment in accordance with Holloman AFB policy, and EPA and NMED guidance and regulations. Soil samples collected from SD08-TEMP 1 and SD08-TEMP 2 were submitted to the laboratory for analysis of VOCs (Method 8260B) and TAL Metals (Method 6020A). Sample analysis times were a standard two week turnaround time.

Upon completing each of the two soil borings, a 2" diameter groundwater well point was installed to a depth of approximately 20 and 24 ft bgs. Each well point was completed with 10 ft of 2-inch inner diameter (ID) 0.010-inch slotted PVC screen and bottom cap. The screen was lowered to the bottom of the open borehole and connected to 2-inch PVC flush joint riser pipe in ten foot sections to the ground surface. A 2-inch slip on top cap was secured at the top of each well point. A sand filter pack was placed to a minimum two feet above the well screen; and a two foot bentonite seal (hydrated) was installed above the sand pack. Temporary monitoring well construction diagrams are included in Appendix B. Well points were not developed prior to sampling. Wells were allowed to rest for 24-hours prior to sample collection.

Groundwater Sampling

Groundwater samples were collected on July 31, 2014 from SD08-TEMP 1, SD08-TEMP 2 and MW-09-01. Prior to sampling, groundwater levels were collected for each monitoring well. Monitoring well purging and sampling was completed with low flow techniques utilizing a peristaltic pump, disposable polyethylene tubing placed at mid-screen, and a groundwater multi-parameter meter equipped with a flow-thru cell. Field parameters were recorded every ten minutes. Field parameters were considered stable when the pH measurements remained constant within 0.1 units; specific conductivity, dissolved oxygen and temperature varied by no more than 10 percent, and turbidity by no more than 5 nephelometric units. Upon reaching stable purging parameters, VOC samples were collected using disposable Teflon bailers followed by collecting the remaining samples using a peristaltic pump at low flow rates. Samples collected for dissolved TAL metals were also field filtered with a 0.45 micron filter. Each of the wells was pumped at an average rate of less than 1 liter per minute. Groundwater sampling forms are included in Appendix C.

Groundwater samples submitted for chemical analysis were shipped to a NELAP certified laboratory and analyzed for VOCs (Method 8260B), TAL Metals, Total Mercury (Method 7470A), Nitrates (Method 300), and TDS (Method 2540C). Sample analysis times were a standard two week turnaround time. Samples were collected in accordance with Holloman AFB policy and requirements and EPA and NMED guidance and regulations.

Management of Investigation Derived Waste

IDW generated by installing the boreholes were containerized in 55-gallon drums. Drums were placed on pallets and stored onsite during the field activities. Based upon analytical results, soils will be spread onsite. Purge water, produced during groundwater sampling activities was containerized and stored in 55-gallon drums, on pallets. Decontamination rinse water (from cleaning sampling equipment) was containerized and stored in a 55-gallon drum. Based upon

groundwater analytical data, water will be transferred to the onsite waste water treatment plant for disposal.

Site Restoration

Abandonment of the temporary wells was completed upon notification from the laboratory that all samples had been received and was in compliance with EPA temperature and volume requirements. PVC materials were removed from the borings and borings were backfilled with a hydrated mixture of 3/8" bentonite hole plug and Portland cement to a depth of no greater than 3' below ground surface level. Subsequent to placement of the bentonite / Portland cement slurry, natural soils were placed into the boring to complete the abandonment process. The site was canvassed for trash and debris.

Groundwater Direction

Temporary monitoring well locations used for the potentiometric surface map were surveyed by NationView personnel using a hand held Trimble GPS device. The horizontal locations (northing and easting coordinates) are relative to the World Geodetic System (WGS) 1984 Universal Transverse Mercator (UTM) Coordinate System, Zone 13 North (meters). Vertical elevations were referenced to the North American Vertical Datum (NAVD) 1988 (Appendix A, Figure 2 - Soil Boring and Well Location Map). The top of casing for the monitoring wells (vertical control) was used to determine the depth and elevation of the groundwater. The northing and easting and top of casing survey data for the SD-08 sampling event are included in Appendix D, Table 1. To determine the groundwater flow direction at Site SD-08 (SWMU-82), groundwater elevations were measured at 4 monitoring wells (SD08-TEMP 1, SD08-TEMP 2, MW-09-01, and SD08-MW10) on July 31, 2013. Static water elevations measured from the top of casing ranged from 4073.190 ft above mean sea level (amsl) at monitoring well SD08-TEMP 1 to 4076.587 ft amsl at MW-09-01. Table 1 (Appendix D) presents the groundwater elevation data collected during this sampling event. A potentiometric surface map of SD-08 was developed using the data collected on July 31, 2014. The groundwater flow direction at SD-08 is primarily to the southeast (Appendix A, Figure 3 – Groundwater Potentiometric Map).

Soil Analytical Results

This section provides a comparison of the soil results with their USEPA MCLs and NMED Approved Background Levels. Temporary monitoring wells (SD08-TEMP 1 and SD08-TEMP 2) were installed and sampled during this event to better delineate the contamination identified during the previous sampling events.

Volatile Organic Compounds

Table 2 (Appendix D) presents the current results for the VOCs in the soil samples collected from the SD-08 monitoring well network (1,2-DCA and 1,2-DCP). On a well by well basis, VOC results are summarized below:

- **SD08-TEMP 1**: VOCs were undetected during this sampling event.
- **SD08-TEMP 2**: VOCs were undetected during this sampling event.

Metals

Table 2 (Appendix D) shows current results for the most frequently detected dissolved (filtered) TAL metals (arsenic, iron and manganese) in the soil at Site SD-08. On a well by well basis, the TAL metals results are summarized below:

- **SD08-TEMP 1**: All total TAL metals remained below applicable NMED Residential standards or the NMED Approved Background Levels.
- **SD08-TEMP 2**: Concentration of dissolved magnesium (21,100 mg/kg) exceeded its NMED Approved Background Level of 16,991 mg/kg. All other total TAL metals remained below applicable NMED Residential standards or the NMED Approved Background Levels.

Laboratory Analytical Reports and Chain of Custody forms for soil sample collection are included in Appendix E.

Groundwater Analytical Results

This section provides a comparison of the groundwater results with their NMWQCC standards, USEPA MCLs, and NMED Approved Background Levels. Monitoring wells SD08-TEMP 1, SD08-TEMP 2 and MW-09-01 were sampled during this event to better delineate the western extent of the SD-08 Site.

Volatile Organic Compounds

Table 3 (Appendix D) presents the current results for the VOCs in the groundwater samples collected from the SD-08 monitoring well network (1,2-DCA and 1,2-DCP). On a well by well basis, VOC results are summarized below:

- **SD08-TEMP 1**: VOCs were undetected during this sampling event.
- **SD08-TEMP 2**: With the exception of low estimated concentrations of benzene and chloroform, VOCs were not detected during this sampling event.
- **MW-09-01**: With the exception of low estimated concentrations of chloroform, VOCs were not detected during this sampling event.

Metals

Table 3 shows current results for the most frequently detected dissolved (filtered) TAL metals (arsenic, iron and manganese) in groundwater at Site SD-08. On a well by well basis, the TAL metals results are summarized below:

- **SD08-TEMP 1**: Concentrations of dissolved iron (2.50 [U] mg/L) and dissolved manganese (0.48 J mg/L) exceed their NMWQCC standards, USEPA MCLs, and NMED Approved Background Levels. All other total TAL metals remained below applicable NMWQCC and USEPA action levels.
- **SD08-TEMP 2**: Concentrations of dissolved iron (2.50 [U] mg/L) and dissolved manganese (0.61 mg/L) exceed their NMWQCC standards, USEPA MCLs, and NMED Approved Background Levels. All other total TAL metals remained below applicable NMWQCC and USEPA action levels.

- **MW-09-01**: The concentration of dissolved iron (2.50 [U] mg/L) exceeds its NMWQCC standard, USEPA MCL, and NMED Approved Background Level. All other total TAL metals remained below applicable NMWQCC and USEPA action levels.

Laboratory Analytical Reports and Chain of Custody forms for groundwater sample collection are included in Appendix E.

Data Validation

All of the laboratory data generated during this event was validated by the project chemist. Field Quality Assurance (QA)/Quality Control (QC) samples, including trip blanks, matrix spikes, and matrix spike duplicates were collected to document field and laboratory QA/QC. Gulf Coast Analytical Laboratories (GCAL) in Baton Rouge, Louisiana performed the analysis of all groundwater samples collected.

Overall, only minor QC issues were identified during the data validation of the laboratory results and the laboratory took all necessary corrective actions. All of the data were determined to be usable with only minor qualifications. Information regarding the precision, accuracy, representativeness, and completeness is provided in the Data Validation Reports (Appendix F) with the preceding paragraphs providing a synopsis of each analyte group.

Conclusions

The installation of the two temporary monitoring wells, and soil and groundwater sampling, was developed to address the identification of the western extent of the SD-08 Site. The primary purpose of this addition to the SD-08 project was to determine if there is a potential upgradient source of VOCs migrating onto the SD-08 site, from AOC-RR. Analytical results obtained during this event were evaluated and compared with the NMED Residential standards and the NMED Approved Background Levels. These actions were completed during this sampling event, in accordance with NMED authorization:

- Two temporary monitoring wells (SD08-TEMP 1 and SD08-TEMP 2) were installed in response to the NMED Letter, “Approval with Modifications”, Dated June 18, 2014.
- Based on recommendations in the NMED Approval letter, and concurrence between NMED and Holloman AFB, groundwater samples were collected from SD08-TEMP 1, SD08-TEMP 2 and MW-09-01 as part of the actions requested.
- Soil and groundwater samples were analyzed for the applicable parameters identified in the SD08 quarterly reports (VOCs and Metals).

Based upon soil and groundwater analytical results, the western boundary of the SD-08 groundwater contaminate plume has been identified. The non-detect and/or estimated low concentration of VOC’s indicates that constituents of concern are not present at Temp Well 1, Temp Well 2 or at MW-09-01; thereby the western extent of the SD-08 site has been determined. The constituents of concern are not migrating onto the SD-08 site from locations west of the Temp Well 1, Temp well 2 or MW-09-01 (upgradient AOC-RR). Therefore, it is recommended that concurrence with the request for closure as identified in the Revised Final RCRA Facility Investigation Report, Building 131 Washrack, Site SD-08 (SWMU-82) Holloman Air Force Base, New Mexico (NationView, 2014) be granted.

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ATTACHMENT A

New Mexico Environmental Department (NMED) Letter, "Approval with Modifications", Dated June 18, 2014

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NEW MEXICO ENVIRONMENT DEPARTMENT

SUSANA MARTINEZ
Governor
JOHN A. SANCHEZ
Lieutenant Governor

2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
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RYAN FLYNN
Cabinet Secretary
BUTCH TONGATE
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 18, 2014

DeAnna Rothhaupt
Chief, Holloman AFB Environmental
49 CES/CEIE
550 Tabosa Avenue
Holloman AFB, NM 88330

RE: APPROVAL WITH MODIFICATIONS
SD-08 (SOLID WASTE MANAGEMENT UNIT – 82) LONG TERM MONITORING REPORT, QUARTER 8, FALL 2013, FEBRUARY 2014
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HWB-HAFB-14-002

Dear Ms. Rothhaupt:

The New Mexico Environment Department (NMED) has reviewed Holloman Air Force Base's (the Permittee's) eighth quarter Long Term Monitoring Report for SD-08 (SWMU 82) (Report), which was received on April 22, 2014. The NMED hereby approves the Report subject to the following modifications.

NMED concurs that the western extent of the contaminant plume has not been determined and that additional soil borings/monitoring wells (MWs) are needed to further delineate the source of the contamination. To accomplish this, the Permittee has proposed to install three new MWs in a north/south transect to the west of Building 80 and the suspected AOC-RR underground storage tank locations. The existing monitoring well MW-09-01 is located approximately 250 feet west of the proposed MWs and is not proposed as a sampling location. The Permittee, via the direction in this letter, has the option not to install the middle well of the three proposed MWs at this time; however, the Permittee must sample ground water at MW-09-01 and, during installation and after they are installed, subsurface soil and ground water samples collected from the two other proposed MWs. The soil and ground water samples must be analyzed for the parameters proposed in the Report. Quarterly ground water monitoring shall continue to be

performed until the Permittee receives further direction from the NMED.

If you have any questions regarding this matter, please contact Mr. David Strasser of my staff at (505) 222-9526.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
W. Moats, NMED HWB
C. Amindyas, NMED HWB
D. Strasser, NMED HWB
C. Hendrickson, EPA, Region 6 (6PD-F)

File: HAFB 2014 and Reading
HAFB-14-002

APPENDIX A

Figures

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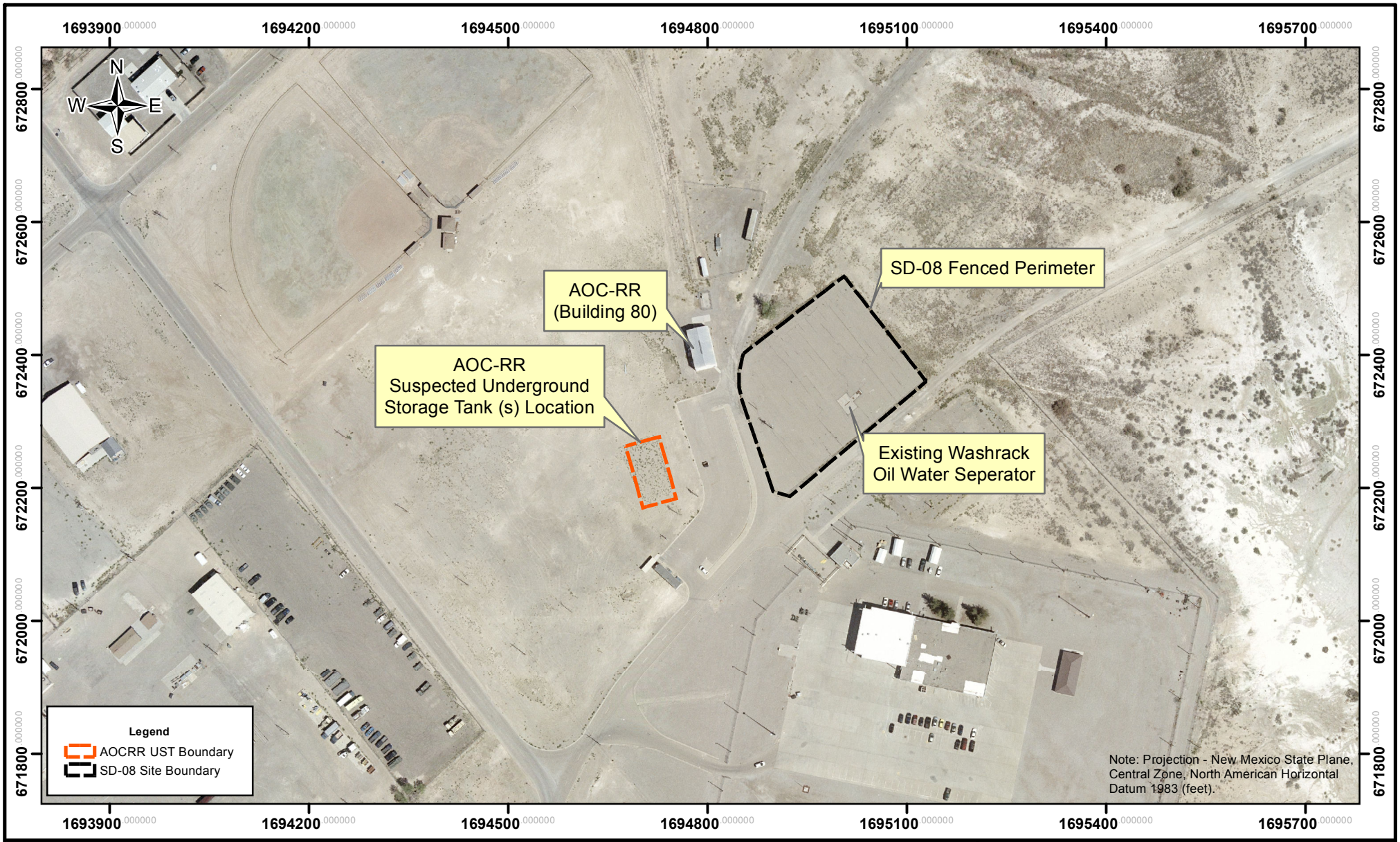


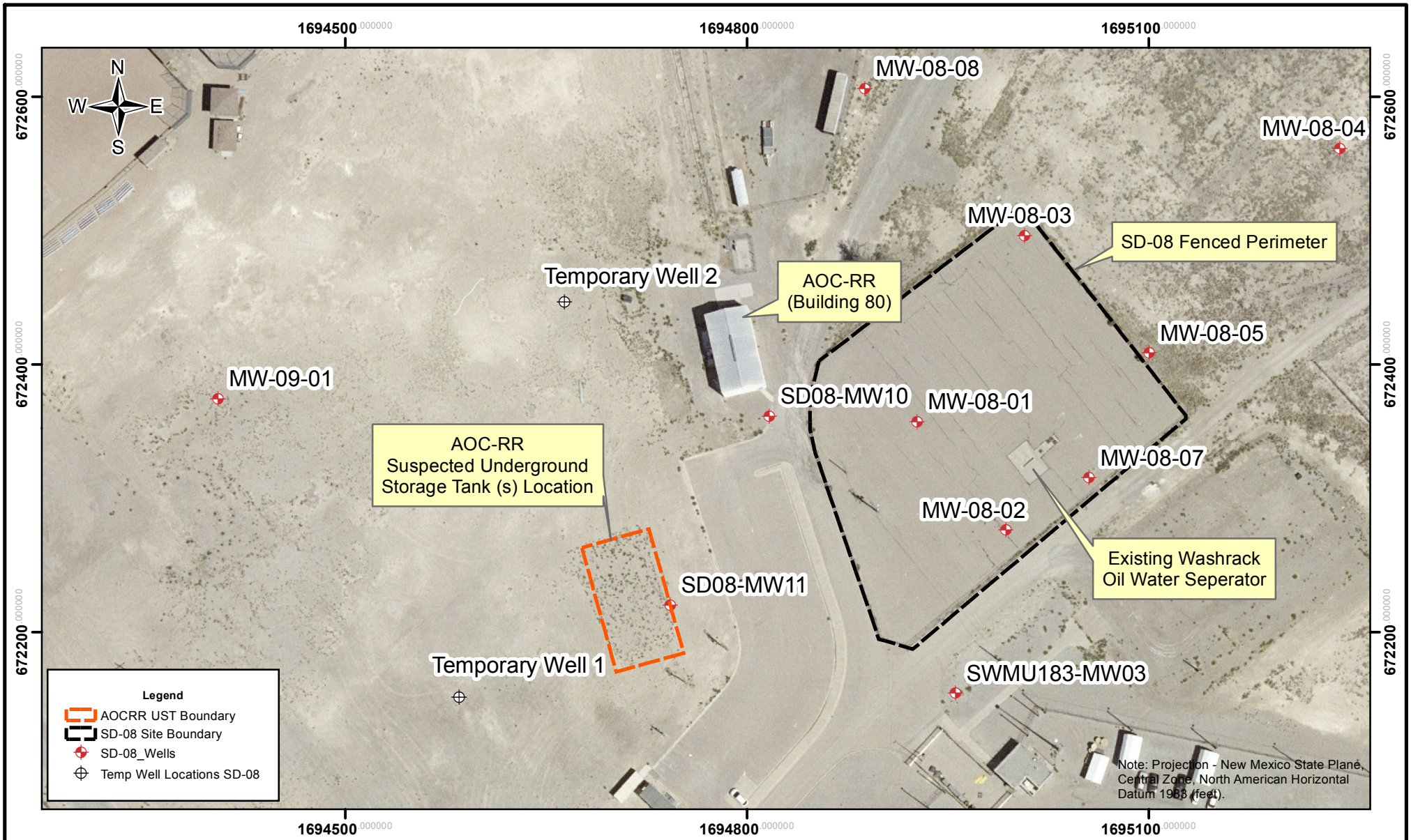
NATIONVIEW

SD-08
Site Vicinity Map

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
10-0004	0 75 150 300 Feet	9/5/14	FRE
			DRAWING NO: Figure 1

SD-08
Technical Memorandum
Temporary Monitoring Well Installation
September 2014
Holloman Air Force Base, New Mexico

Figure 1



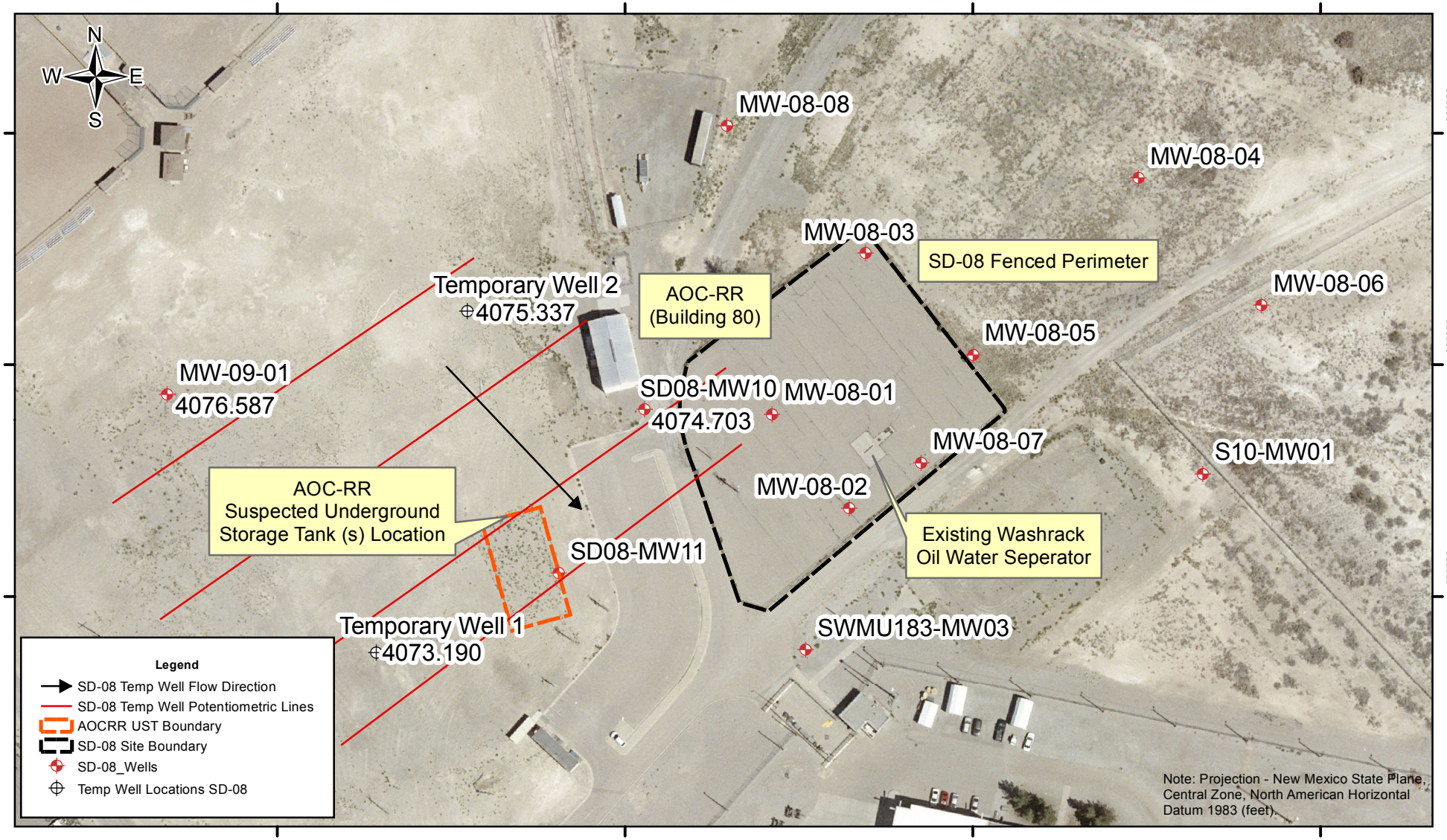
NATIONVIEW

SD-08
Soil Boring and Well Location Map

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
10-0004	0 37.5 75 150 Feet	9/5/14	FRE
			DRAWING NO: Figure 2

SD-08
Technical Memorandum
Temporary Monitoring Well Installation
September 2014
Holloman Air Force Base, New Mexico

Figure 2



NATIONVIEW

SD-08
Groundwater Potentiometric Map

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
10-0004	0 45 90 180 Feet	9/5/14	FRE
			DRAWING NO: Figure 3

SD-08
Technical Memorandum
Temporary Monitoring Well Installation
September 2014
Holloman Air Force Base, New Mexico

Figure 3

Appendix B

Temporary Monitoring Well Construction Diagrams

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NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SD-08	**WELL/BORING ID:**	Temp 1 (Temporary Well)
PROJECT NAME:	Pesticide Study	**DRILLING METHOD:**	Direct Push Technology
PROJECT NO./PHASE:	10-0004	**DATE(S):**	29-Jul-14
DRILLING CONTRACTOR:	Earthworx	**SURVEYOR:**	
DRILLER:	Luis Trujillo	**NORTHING (NAD 83):**	
GEOLOGIST:	Lance Williams	**EASTING (NAD 83):**	

NOT TO SCALE

Surface Elevation (NAVD 88):

Casing Elevation (NAVD 88):

Borehole Diameter (in): 2.5"

Well Casing Diameter (in): 2"

DEPTH TO WATER 13'

During Drilling: 13'

Date 7/29/2014

Pre Development:

Date 7/29/2014

Post Development:

Date 7/29/2014

Top of Secondary Filter Pack: 1'

Top of Filter Pack: 6'

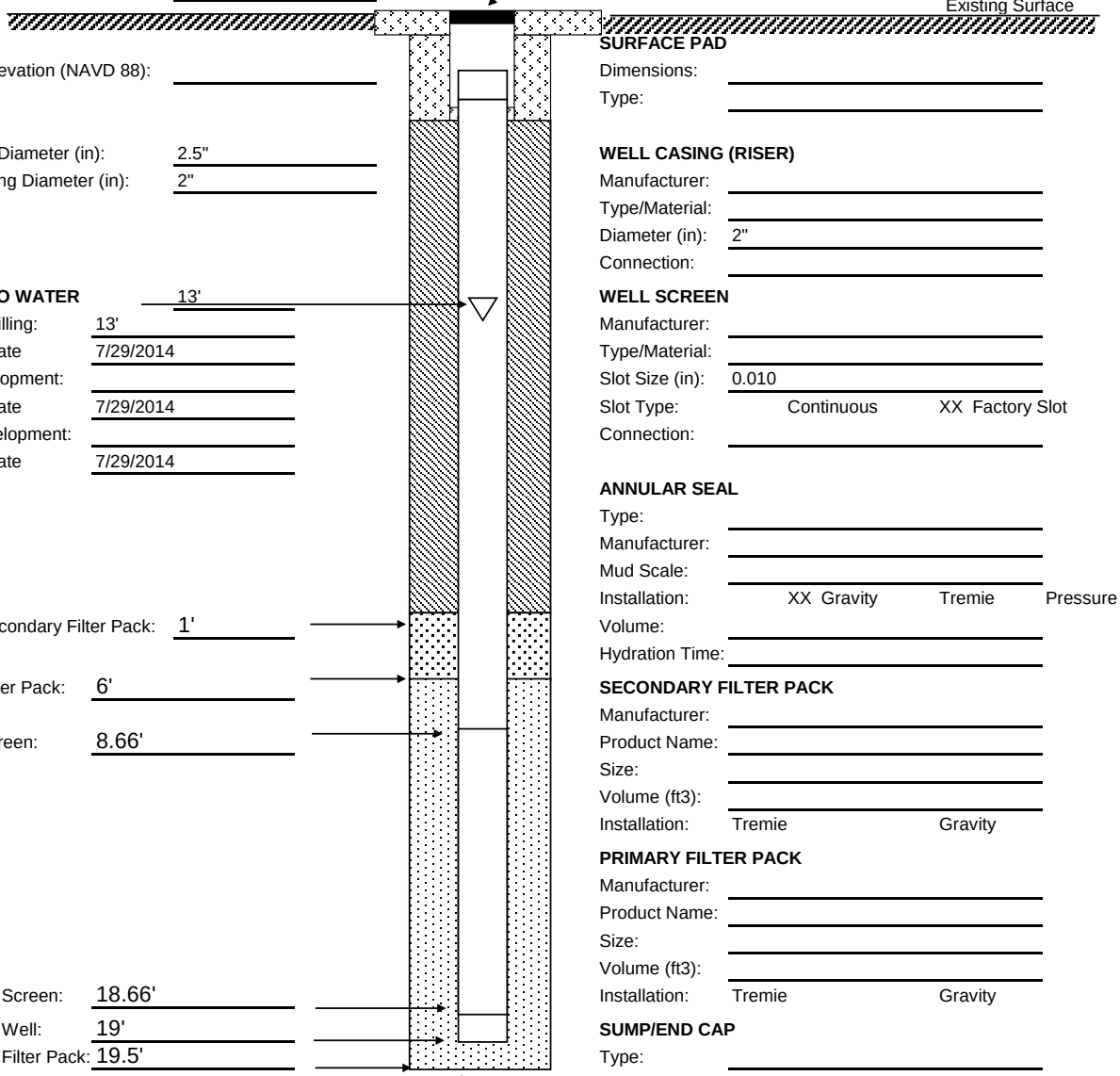
Top of Screen: 8.66'

Bottom of Screen: 18.66'

Bottom of Well: 19'

Bottom of Filter Pack: 19.5'

Borehole Depth: 20'



PROTECTIVE CASING

Type: N/A

Dimensions:

Length:

SURFACE PAD

Dimensions:

Type:

WELL CASING (RISER)

Manufacturer:

Type/Material:

Diameter (in): 2"

Connection:

WELL SCREEN

Manufacturer:

Type/Material:

Slot Size (in): 0.010

Slot Type: Continuous XX Factory Slot

Connection:

ANNULAR SEAL

Type:

Manufacturer:

Mud Scale:

Installation: XX Gravity Tremie Pressure

Volume:

Hydration Time:

SECONDARY FILTER PACK

Manufacturer:

Product Name:

Size:

Volume (ft3):

Installation: Tremie Gravity

PRIMARY FILTER PACK

Manufacturer:

Product Name:

Size:

Volume (ft3):

Installation: Tremie Gravity

SUMP/END CAP

Type:

Length:

BACKFILL MATERIAL

Type:

Volume:

Comments:

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SD-08	**WELL/BORING ID:**	Temp 2 (Temporary Well)
PROJECT NAME:	Pesticide Study	**DRILLING METHOD:**	Direct Push Technology
PROJECT NO./PHASE:	10-0004	**DATE(S):**	29-Jul-14
DRILLING CONTRACTOR:	Earthworx	**SURVEYOR:**	
DRILLER:	Luis Trujillo	**NORTHING (NAD 83):**	
GEOLOGIST:	Lance Williams	**EASTING (NAD 83):**	

NOT TO SCALE

Surface Elevation (NAVD 88):

Casing Elevation (NAVD 88):

Borehole Diameter (in): 2.5"

Well Casing Diameter (in): 2"

DEPTH TO WATER 13'

During Drilling: 13'

Date 7/29/2014

Pre Development:

Date 7/29/2014

Post Development:

Date 7/29/2014

Top of Secondary Filter Pack: 1'

Top of Filter Pack: 8'

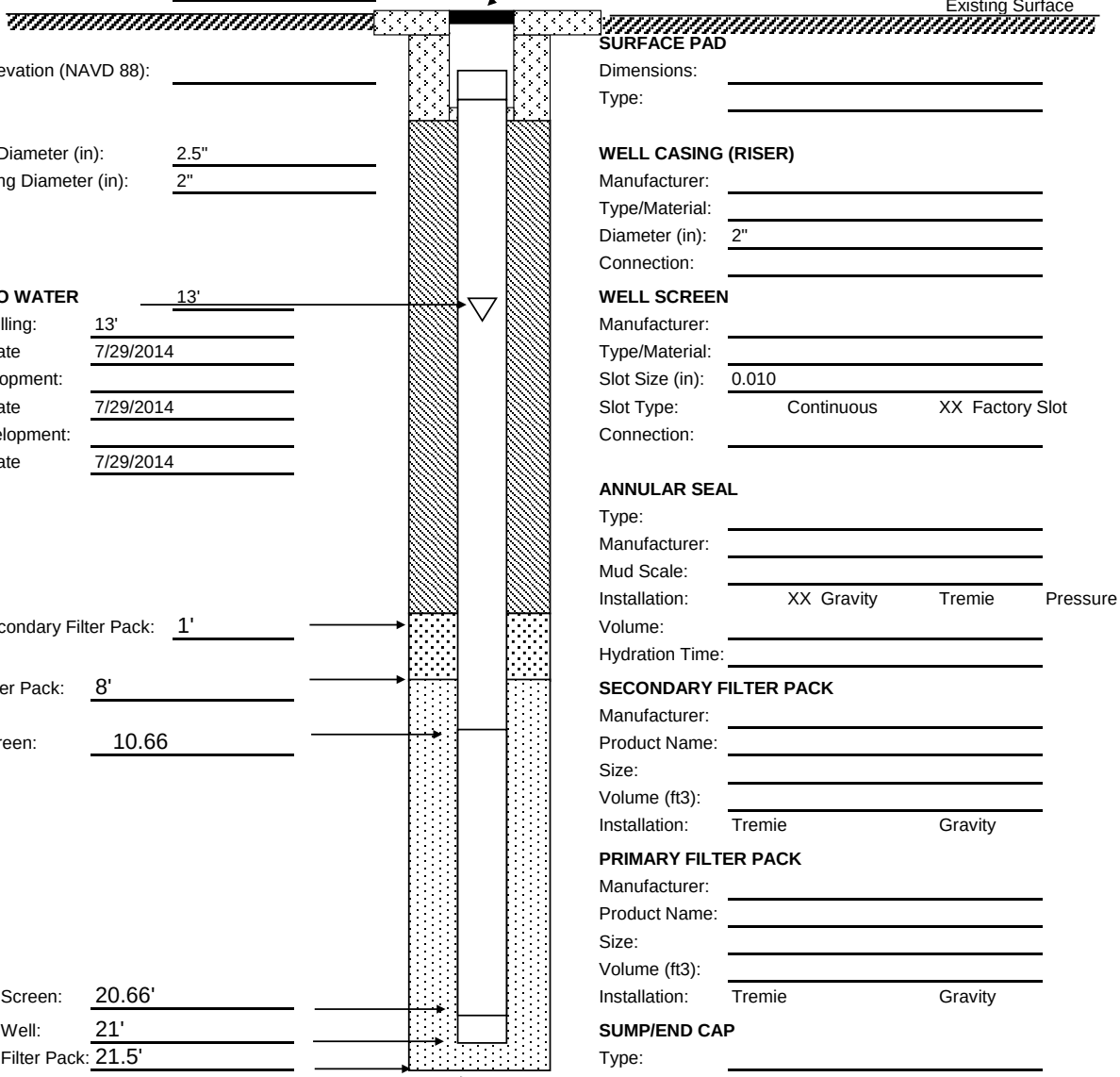
Top of Screen: 10.66

Bottom of Screen: 20.66'

Bottom of Well: 21'

Bottom of Filter Pack: 21.5'

Borehole Depth: 22'



PROTECTIVE CASING

Type: N/A

Dimensions:

Length:

SURFACE PAD

Dimensions:

Type:

WELL CASING (RISER)

Manufacturer:

Type/Material:

Diameter (in): 2"

Connection:

WELL SCREEN

Manufacturer:

Type/Material:

Slot Size (in): 0.010

Slot Type: Continuous XX Factory Slot

Connection:

ANNULAR SEAL

Type:

Manufacturer:

Mud Scale:

Installation: XX Gravity Tremie Pressure

Volume:

Hydration Time:

SECONDARY FILTER PACK

Manufacturer:

Product Name:

Size:

Volume (ft3):

Installation: Tremie Gravity

PRIMARY FILTER PACK

Manufacturer:

Product Name:

Size:

Volume (ft3):

Installation: Tremie Gravity

SUMP/END CAP

Type:

Length:

BACKFILL MATERIAL

Type:

Volume:

Comments:

NATIONVIEW

Monitoring Well Development Log

Date Started (yr/mo/day) 2014/07/30 Data Completed (yr/mo/day) 2014/07/30

Field Personnel Brian Parrish/ K Fuller.

Project SD08.

Site Name SD08.

Job No. 10-0004 Well ID # SD08-Temp1.

____Upgradient _____Downgradient __X__Sidegradient

Weather Conditions Clear.

Air Temperature 76°F.

Total WellDepth (TWD)
From Top of Casing (TOC)= 20.58 1/100 ft

Depth to Ground Water (DGW)
From Top of Casing (TOC)= 13.71 1/100 ft

Length of Water Column (LWC) = TWD – DGW = 6.87 1/100 ft

1 Casing Volume (OCV) – LWC x .16 = 1.10 gallons

5 Casing Volumes = 5.50 gallons

Method of Well Development Monsoon pump and poly tubing.

Total Volume of Water Removed 2.25 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (umhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Sand Content (%)	Remarks
1020	100 ml/m	2	23.20	7.10	31.4	53.78	4.7	1.19	0	17.73
1025	100 ml/m		23.22	7.08	28.1	53.81	3.6	1.18	0	18.63
1030	100 ml/m		23.43	7.10	27.6	53.76	4.2	1.18	0	19.34

COMMENTS/OBSERVATIONS:

NATIONVIEW

Monitoring Well Development Log

Date Started (yr/mo/day) 2014/07/30 Data Completed (yr/mo/day) 2014/07/30

Field Personnel Brian Parrish / K Fuller .

Project SD08 .

Site Name SD08 .

Job No. 10-0004 Well ID # SD08-Temp2 .

X Upgradient _____ Downgradient _____ Sidegradient

Weather Conditions Clear .

Air Temperature 76°F .

Total WellDepth (TWD)
From Top of Casing (TOC)= 20.59 1/100 ft

Depth to Ground Water (DGW)
From Top of Casing (TOC)= 14.67 1/100 ft

Length of Water Column (LWC) = TWD – DGW = 5.92 1/100 ft

1 Casing Volume (OCV) – LWC x .16 = .95 gallons

5 Casing Volumes = 4.75 gallons

Method of Well Development Monsoon pump and poly tubing .

Total Volume of Water Removed 2.25 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (umhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Sand Content (%)	Remarks
0940	100 ml/m	2	21.62	6.92	86.1	52.30	15	1.45	0	16.61ft
0945	100 ml/m		21.54	7.02	83.5	52.20	5.6	1.78	0	17.29ft
0950	100 ml/m		21.64	7.02	81.0	51.91	12	1.27	0	17.83ft
0955	100 ml/m		21.43	7.02	79.3	51.57	12	1.25	0	18.25ft
1000	100 ml/m		21.48	7.02	79.1	51.63	12	1.21	0	18.36ft

COMMENTS/OBSERVATIONS:

Appendix C

Groundwater Sampling Forms

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MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: SD08	Location ID: SD08 Temp 1	Date: 7/31/2014
		Project No./Phase: 10-004	Recorded By: Tony Lucero
EQUIPMENT	Pump Type/ID#: GeoPump	Water Quality Meter/ID#: YSI 650	PID Type/ID#:
	Water Level Indicator Type/ID#: Heron	Other Equipment/ID#: Lamotte 20/20	Decon Method: Liquinox / DI water rinse
	Tubing Type/Diameter (in): 1/4	Other Equipment/ID#:	PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC): 13.80	Casing: Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 20.60	(E) Casing Volume Multiplier (gal/lin ft): 0.16	Background PID (ppm):
	(C) Water Column Thickness (ft) (B-A): 6.80	Screen Length (lin ft):	Breathing Zone PID (ppm):
	(D) Well Volume (gal) (C x E): 1.08	Screen Info: Type: PVC Size:	Well Opening PID (ppm):

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/31/2014	1315	14.65	1000	500	23..85	7.28	55.1	2.49	8.70	-44.2	
7/31/2014	1325	15.11	6000	500	28.85	7.28	61.53	2.35	8.00	-54.7	
7/31/2014	1335	16.24	11000	500	23.46	8.16	55.86	3.09	7.40	-101.6	
7/31/2014	1345	17.13	16000	500	23.45	8.16	55.54	3.08	6.90	-102.4	
7/31/2014	1355	17.65	21000	500	23.44	8.16	55.53	3.07	5.90	-102.1	
7/31/2014	1405	18.75	26000	500	23..44	8.16	55.51	3.07	4.20	-102.4	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**							
Sample Time											
1410											
Sample Identification											
SD08-Temp1											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%									

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: SD08	Location ID: SD08 Temp 2	Date: 7/31/2014
		Project No./Phase: 10-004	Recorded By: Tony Lucero
EQUIPMENT	Pump Type/ID#: GeoPump	Water Quality Meter/ID#: YSI 650	PID Type/ID#:
	Water Level Indicator Type/ID#: Heron	Other Equipment/ID#: Lamotte 20/20	Decon Method: Liquinox / DI water rinse
	Tubing Type/Diameter (in): 1/4	Other Equipment/ID#:	PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC): 14.77	Casing: Type PVC Diam. (in) 2.00	Weather: Overcast
	(B) Total Well Depth (ft BTOC): 20.60	(E) Casing Volume Multiplier (gal/lin ft): 0.16	Background PID (ppm):
	(C) Water Column Thickness (ft) (B-A): 5.83	Screen Length (lin ft): 10'	Breathing Zone PID (ppm):
	(D) Well Volume (gal) (C x E): 0.93	Screen Info: Type: PVC Size:	Well Opening PID (ppm):

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/31/2014	0920	15.95	1000	500	20.73	7.96	52.64	0.51	31.00	209.6	
7/31/2014	0930	18.25	6000	500	20.725	8.09	52.14	0.57	21.00	141.6	
7/31/2014	0940	19.5	11000	500	20.87	8.10	52.36	0.57	17.00	37	
7/31/2014	0950	19.5	16000	500	20.49	8.04	52.21	0.50	4.50	31.8	
7/31/2014	1000	19.5	21000	500	20.7	8.09	52.32	0.51	2.10	30.7	
7/31/2014	1010	19.5	26000	500	20.71	8.09	52.29	0.51	1.90	30.4	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**							
Sample Time											
1015											
Sample Identification											
SD08-Temp2											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%									

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: SD08	Location ID: SD08 -MW10	Date: 7/31/2014
		Project No./Phase: 10-004	Recorded By: Tony Lucero
EQUIPMENT	Pump Type/ID#: GeoPump	Water Quality Meter/ID#: YSI 650	PID Type/ID#:
	Water Level Indicator Type/ID#: Heron	Other Equipment/ID#: Lamotte 20/20	Decon Method: Liquinox / DI water rinse
	Tubing Type/Diameter (in): 1/4	Other Equipment/ID#:	PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC): 11.98	Casing: Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 19.85	(E) Casing Volume Multiplier (gal/lin ft): 0.16	Background PID (ppm):
	(C) Water Column Thickness (ft) (B-A): 12.30	Screen Length (lin ft): 10'	Breathing Zone PID (ppm):
	(D) Well Volume (gal) (C x E): 1.96	Screen Info: Type: PVC Size:	Well Opening PID (ppm):

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/31/2014	1200	12.11	1000	500	22.85	5.74	4.06	-0.12	16.00	-56.9	
7/31/2014	1210	13.12	6000	500	22.8	5.75	4.06	-0.12	5.50	-57.1	
7/31/2014	1220	13.25	11000	500	22.69	5.76	4.06	-0.16	4.00	-70	
7/31/2014	1230	13.25	16000	500	22.7	5.77	4.06	-0.20	3.10	-71.1	
7/31/2014	1240	13.25	21000	500	22.71	5.77	4.06	-0.20	2.20	-72.2	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**							
Sample Time											
1245											
Sample Identification											
SD08-MW10											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%									

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: SD08	Location ID: MW09-01	Date: 7/31/2014
	Project Name:	Project No./Phase: 10-004	Recorded By: Tony Lucero
EQUIPMENT	Pump Type/ID#: GeoPump	Water Quality Meter/ID#: YSI 650	PID Type/ID#:
	Water Level Indicator Type/ID#: Heron	Other Equipment/ID#: Lamotte 20/20	Decon Method: Liquinox / DI water rinse
	Tubing Type/Diameter (in): 1/4	Other Equipment/ID#:	PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC): 8.85	Casing: Type PVC Diam. (in) 2.00	Weather: Overcast
	(B) Total Well Depth (ft BTOC): 16.90	(E) Casing Volume Multiplier (gal/lin ft): 0.16	Background PID (ppm):
	(C) Water Column Thickness (ft) (B-A): 8.05	Screen Length (lin ft):	Breathing Zone PID (ppm):
	(D) Well Volume (gal) (C x E): 1.28	Screen Info: Type: PVC Size:	Well Opening PID (ppm):

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/31/2014	1045	9.3	1000	500	23.23	8.37	35.4	0.53	19.00	49.3	
7/31/2014	1055	10	6000	500	22.15	6.92	32.13	0.38	50.00	115.2	
7/31/2014	1105	10.18	11000	500	22.29	7.11	34.52	0.46	3.60	87	
7/31/2014	1115	10.4	16000	500	22.44	7.75	34.8	0.63	3.10	58.4	
7/31/2014	1125	10.4	21000	500	22.44	7.75	34.8	0.68	2.20	58.7	
7/31/2014	1135	10.4	26000	500	22.44	7.74	34.8	0.65	1.40	58.8	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**							
Sample Time											
1140											
Sample Identification											
MW09-01											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%									

Appendix D

Tables

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Table 1
Groundwater Elevation Summary (July 2014)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Well Point Number	Northing (UTM meters)	Easting (UTM meters)	Elevation TOC (ft above msl)	July 31, 2014 DTW from TOC (ft below TOC)	Groundwater Elevation July 31, 2014 (ft above msl)
MW-09-01	3634977.965	399479.072	4085.437	8.85	4076.587
SD08-MW10	3634973.540	399604.2681	4086.683	11.98	4074.703
SD08-TEMP 1	3634997.957	399557.803	4086.990	13.80	4073.190
SD08-TEMP 2	3634906.034	399530.984	4088.107	12.77	4075.337

Notes:
UTM = Universal Transverse Mercator
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level

Table 2
Soil Analytical Data (July 2014)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	**l Screening Lev**	**sewide Backgrou**	SD08-TEMP 1			SD08-TEMP 2		
Lab Sample Identification:	**NMED Residential[1]**	**NMED Approved Background Levels [2]**	21407302001			21407302002		
Date Sampled:			7/29/2014			7/29/2014		
Analyte			**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**
Volatile Organic Compounds (8260B)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**		
1,2-Dichloroethane	NV[5]	NV	0.205	U		0.172	U	
1,2-Dichloropropane	NV	NV	0.079	U		0.066	U	
Acetone	NV	NV	0.307	U		0.258	U	
Benzene	NV	NV	0.053	U		0.044	U	
Chloroform	NV	NV	0.179	U		0.150	U	
Ethylbenzene	NV	NV	0.190	U		0.159	U	
Isopropylbenzene (Cumene)	NV	NV	0.108	U		0.091	U	
Trichloroethene	NV	NV	0.132	U		0.111	U	
n-Propylbenzene	NV	NV	0.123	U		0.103	U	
sec-Butylbenzene	NV	NV	0.169	U		0.142	U	
tert-Butylbenzene	NV	NV	0.358	U		0.300	U	
Dissolved TAL Metals Analysis (6020A)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**		
Aluminum	78,000	13,722	7250			8,130		
Arsenic	3.9	3.7	4.06			3.22		
Barium	15,600	169.3	98.9			68.8		
Calcium	NV	317,332	145000			121,000		
Cobalt	23	7.7	3.10			3.21		
Copper	3,130	13	0.0540			5.35		
Iron	54,800	23,049	7,650			7,980		
Magnesium	NV	16,991	4,860			**21,100**		
Manganese	1860	393	186			97.1		
Potassium	NV	5,077	1,570			2,170		
Sodium	NV	5,196	2,550			3,220		
Vanadium	NV	42.6	18.2	U		17.7		
Zinc	10,000	54.6	24.3	U		25.60		

Notes:
NMED = New Mexico Environmental Department
TAL = Total Analyte List
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value

Sample Identification Nomenclature
TEMP = Temporary Monitoring Well Sample
08 = Site identifier for SD-08

[1] NMED Soil Screening Levels. Risk Assessment Guidance for Site Investigations and Remediation (NMED, June 2012).
[2] Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL))
[4] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (May, 2012)
[5] No Value established for NMED Residential SSL (June, 2012) and USEPA RSL (May, 2012)
Bold value indicates analytes above NMED SSLs (June, 2012)
Indicates analytical results above the NMED Approved Background Level, but below the NMED Residential SSL

Table 3
Groundwater Analytical Data (July 2014)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	**Groundwater Screening Levels**		**Basewide Background**			SD08-TEMP 1			SD08-TEMP 2			MW-09-01			SD08-MW10		
Lab Sample Identification:	**NMWQCC[1]**	**USEPA MCL [2]**	**NMED Approved Background Levels [3]**	**Dissolved Metals in Groundwater UTL [4]**	**Total Metals in Groundwater UTL [4]**	21408011504			21408011501			21408011502			21408011503		
Date Sampled:						7/31/2014			7/31/2014			7/31/2014			7/31/2014		
Analyte						**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**
Volatile Organic Compounds (8260B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**		
1,2-Dichloroethane	10	5	NV	NV	NV	0.116	U		0.116	U		0.116	U		0.116	U	
1,2-Dichloropropane	NV	5	NV	NV	NV	0.150	U		0.150	U		0.150	U		0.150	U	
Acetone	NV	NV	NV	NV	NV	0.193	U		0.193	U		0.193	U		0.193	U	
Benzene	10	5	NV	NV	NV	0.111	U		1.43	J		0.111	U		**6.32**		
Chloroform	100	NV	NV	NV	NV	0.155	U		0.514	J		0.562	J		0.155	U	
Ethylbenzene	750	700	NV	NV	NV	0.109	U		0.109	U		0.109	U		0.109	U	
Isopropylbenzene (Cumene)	NV	NV	NV	NV	NV	0.130	U		0.130	U		0.130	U		1.680	J	
Trichloroethene	100	5	NV	NV	NV	0.161	U		0.161	U		0.161	U		0.161	U	
n-Propylbenzene	NV	NV	NV	NV	NV	0.727	U		0.727	U		0.727	U		1.85	J	
sec-Butylbenzene	NV	NV	NV	NV	NV	0.107	U		0.107	U		0.107	U		3.48	J	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.087	U		0.087	U		0.087	U		0.896	J	
Dissolved TAL Metals Analysis (6020A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Aluminum	5000	NV	54	54	NV	0.50	U		0.50	U		0.50	U		0.0081	J	
Arsenic	100	10	10	28.53	NV	0.025	U		0.025	U		0.025	U		0.036		
Barium	1,000	2,000	30.2	30.13	NV	0.025	U		0.025	U		0.025	U		0.025		
Calcium	NV	NV	1,151,302	1,151,301.20	NV	751			660			591			453		
Cobalt	50	NV	2.6	2.60	NV	0.025	U		0.025	U		0.025	U		0.0035		
Copper	1,000	1,300	22	57.46	NV	0.0540	J		0.072	J		0.055	J		0.00025	U	
Iron	1,000	300 [7]	65.6	65.56	NV	**2.50**	U		**2.50**	U		**2.50**	U		**2.71**		
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	2150			2320			1250			220		
Manganese	200	50 [7]	50	118.65	NV	**0.48**	J		**0.61**			0.13	U		1.90		
Potassium	NV	NV	120,480	120,479.98	NV	8.52	J		31.5			9.66	J		4.22		
Sodium	NV	NV	19,972,499	19,972,499.00	NV	8930			8360			5340			195		
Thallium	NV	2	2	15.00	NV	0.025	U		0.025	U		0.025	U		0.00025	U	
Vanadium	NV	NV	73.8	73.73	NV	0.025	U		0.025	U		0.036	J		0.00030	J	
Zinc	10,000	5,000	23.0	56.28		0.50	U		0.50	U		0.50	U		0.0050	U	
Total TAL Metals Analysis (7470A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Mercury	2	2	0.5	NV	0.44	0.000070	U		0.000087	J		0.00011	J		0.000080	J	
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	2.17			**23.8**	U		**18.8**	J		5.00	U	
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	NV	65956.58 [8]	**44100**			**50800**			**29400**			**2510**		

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environmental Department
UTL = Upper Tolerance Limit
TAL = Total Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value

Sample Identification Nomenclature
MW = Monitoring Well Sample
08 = Site identifier for SD-08

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates analytical results above the NMED Approved Background Level, but below the New Mexico Groundwater Quality Standard and USEPA MCL

Attachment E

Laboratory Analytical Reports, Chain of Custody Forms

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NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER L13-190

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC

7979 Innovation Park Dr.

Baton Rouge, LA 70820

Report Date 08/19/2014

GCAL Report 214073020

Deliver To	Nationview, LLC 7027 Old Madison Pike Suite 108 Huntsville, AL 35806 256-713-9494
Attn	Lance Williams

Project Holloman AFB SD-08

Case Narrative

Client: NationView LLC **Report:** 214073020

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.

VOLATILES MASS SPECTROMETRY

In the EPA 8260B analysis, samples 21407302001 (SD08-TEMP 1) and 21407302002 (SD08-TEMP 2) were analyzed at a 50 (methanol extract) dilution for 2-Chloroethylvinyl ether. This dilution is reflected in elevated reporting limits.

In the EPA 8260B analysis for analytical batch 538512, the LCS and/or LCSD recoveries are above the upper control limit for Ethyl methacrylate and Pentachloroethane. These compounds were not detected in the associated samples. The %D/%Drift is outside ± 40% for Pentachloroethane in the CCV. The response is high and this analyte was not detected in the associated samples. n-Hexane was detected at an estimated concentration in the method blank. This is probable laboratory contamination.

METALS

In the EPA 6020A analysis, samples 21407302001 (SD08-TEMP 1) and 21407302002 (SD08-TEMP 2) had to be diluted in order to bracket the concentration within the calibration range of the instrument and to eliminate a chemical or physical interference. This is reflected in the elevated reporting limits.

MISCELLANEOUS

For sample 21407302001 (SD08-TEMP 1), a date, time of collection or sample ID discrepancy between a container label and the chain of custody was noted at receipt.

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.

_____

Authorized Signature
GCAL REPORT 214073020

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302001	SD08-TEMP 1	Solid	07/29/2014 13:10	07/30/2014 10:00
21407302002	SD08-TEMP 2	Solid	07/29/2014 12:00	07/30/2014 10:00
21407302003	TRIP BLANK	Water	07/29/2014 00:00	07/30/2014 10:00

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302001	**SD08-TEMP 1**	Solid	07/29/2014 13:10	07/30/2014 10:00

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	1.46J	5.19	0.307	ug/Kg
110-54-3	n-Hexane	0.640J	5.19	0.310	ug/Kg

EPA 6020A

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	7250	95.6	23.9	mg/kg
7440-39-3	Barium	98.9	4.78	1.19	mg/kg
7440-70-2	Calcium	145000	2390	597	mg/kg
7439-89-6	Iron	7650	478	119	mg/kg
7439-95-4	Magnesium	4860	478	119	mg/kg

EPA 6020A

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	4.06	0.48	0.12	mg/kg
7440-41-7	Beryllium	0.59	0.48	0.12	mg/kg
7440-47-3	Chromium	7.87	0.48	0.12	mg/kg
7440-48-4	Cobalt	3.10	0.48	0.12	mg/kg
7440-50-8	Copper	4.94	0.48	0.12	mg/kg
7439-92-1	Lead	5.26	0.48	0.12	mg/kg
7439-96-5	Manganese	186	2.39	0.60	mg/kg
7440-02-0	Nickel	8.98	0.96	0.24	mg/kg
7440-09-7	Potassium	1570	47.8	11.9	mg/kg
7440-62-2	Vanadium	18.2	0.48	0.12	mg/kg
7440-66-6	Zinc	24.3	9.56	2.39	mg/kg

EPA 6020A

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2550	47.8	11.9	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302002	**SD08-TEMP 2**	Solid	07/29/2014 12:00	07/30/2014 10:00

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-09-2	Methylene chloride	0.461J	8.70	0.445	ug/Kg
127-18-4	Tetrachloroethene	0.960J	4.35	0.258	ug/Kg
110-54-3	n-Hexane	0.517J	4.35	0.260	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302002	**SD08-TEMP 2**	Solid	07/29/2014 12:00	07/30/2014 10:00

EPA 6020A

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	8130	99.9	25.0	mg/kg
7440-39-3	Barium	68.8	4.99	1.25	mg/kg
7440-70-2	Calcium	121000	2500	624	mg/kg
7439-89-6	Iron	7980	499	125	mg/kg
7439-95-4	Magnesium	21100	499	125	mg/kg

EPA 6020A

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.22	0.50	0.12	mg/kg
7440-41-7	Beryllium	0.59	0.50	0.12	mg/kg
7440-43-9	Cadmium	0.14J	0.50	0.12	mg/kg
7440-47-3	Chromium	9.19	0.50	0.12	mg/kg
7440-48-4	Cobalt	3.21	0.50	0.12	mg/kg
7440-50-8	Copper	5.35	0.50	0.12	mg/kg
7439-92-1	Lead	5.49	0.50	0.12	mg/kg
7439-96-5	Manganese	97.1	2.50	0.62	mg/kg
7440-02-0	Nickel	8.91	1.0	0.25	mg/kg
7440-09-7	Potassium	2170	49.9	12.5	mg/kg
7440-62-2	Vanadium	17.7	0.50	0.12	mg/kg
7440-66-6	Zinc	25.6	9.99	2.50	mg/kg

EPA 6020A

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	3220	49.9	12.5	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302003	**TRIP BLANK**	Water	07/29/2014 00:00	07/30/2014 10:00

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-09-2	Methylene chloride	5.99	5.00	0.149	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302001	**SD08-TEMP 1**	Solid	07/29/2014 13:10	07/30/2014 10:00

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	08/07/2014 11:48	LBH	538451

CAS#	Parameter	Result	RDL	MDL	Units
110-75-8	2-Chloroethylvinyl ether	56.5U	235	56.5	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1970	2020	ug/Kg	103	59 - 148
1868-53-7	Dibromofluoromethane	1970	1780	ug/Kg	90	80 - 121
2037-26-5	Toluene d8	1970	1810	ug/Kg	92	71 - 130
17060-07-0	1,2-Dichloroethane-d4	1970	1880	ug/Kg	96	77 - 123

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/07/2014 22:24	JCK	538512

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.185U	5.19	0.185	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.168U	5.19	0.168	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.181U	5.19	0.181	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.066U	5.19	0.066	ug/Kg
75-34-3	1,1-Dichloroethane	0.100U	5.19	0.100	ug/Kg
75-35-4	1,1-Dichloroethene	0.235U	5.19	0.235	ug/Kg
563-58-6	1,1-Dichloropropene	0.197U	5.19	0.197	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.374U	5.19	0.374	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.302U	5.19	0.302	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.316U	5.19	0.316	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.150U	5.19	0.150	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.296U	5.19	0.296	ug/Kg
106-93-4	1,2-Dibromoethane	0.213U	5.19	0.213	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.173U	5.19	0.173	ug/Kg
107-06-2	1,2-Dichloroethane	0.205U	5.19	0.205	ug/Kg
78-87-5	1,2-Dichloropropane	0.079U	5.19	0.079	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.137U	5.19	0.137	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.204U	5.19	0.204	ug/Kg
142-28-9	1,3-Dichloropropane	0.121U	5.19	0.121	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.208U	5.19	0.208	ug/Kg
544-10-5	1-Chlorohexane	0.237U	5.19	0.237	ug/Kg
594-20-7	2,2-Dichloropropane	0.258U	5.19	0.258	ug/Kg
78-93-3	2-Butanone	0.335U	5.19	0.335	ug/Kg
95-49-8	2-Chlorotoluene	0.153U	5.19	0.153	ug/Kg
591-78-6	2-Hexanone	0.306U	5.19	0.306	ug/Kg
106-43-4	4-Chlorotoluene	0.160U	5.19	0.160	ug/Kg
99-87-6	4-Isopropyltoluene	0.124U	5.19	0.124	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.160U	5.19	0.160	ug/Kg
67-64-1	Acetone	0.307U	25.9	0.307	ug/Kg
75-05-8	Acetonitrile	2.41U	104	2.41	ug/Kg
107-02-8	Acrolein	2.05U	25.9	2.05	ug/Kg
107-13-1	Acrylonitrile	0.938U	25.9	0.938	ug/Kg
107-05-1	Allyl chloride	0.309U	5.19	0.309	ug/Kg
71-43-2	Benzene	0.053U	5.19	0.053	ug/Kg
108-86-1	Bromobenzene	0.158U	5.19	0.158	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302001	**SD08-TEMP 1**	Solid	07/29/2014 13:10	07/30/2014 10:00

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/07/2014 22:24	JCK	538512

CAS#	Parameter	Result	RDL	MDL	Units
74-97-5	Bromochloromethane	0.344U	5.19	0.344	ug/Kg
75-27-4	Bromodichloromethane	0.107U	5.19	0.107	ug/Kg
75-25-2	Bromoform	0.453U	5.19	0.453	ug/Kg
74-83-9	Bromomethane	0.504U	5.19	0.504	ug/Kg
75-15-0	Carbon disulfide	0.194U	5.19	0.194	ug/Kg
56-23-5	Carbon tetrachloride	0.196U	5.19	0.196	ug/Kg
108-90-7	Chlorobenzene	0.134U	5.19	0.134	ug/Kg
75-00-3	Chloroethane	0.209U	5.19	0.209	ug/Kg
67-66-3	Chloroform	0.179U	5.19	0.179	ug/Kg
74-87-3	Chloromethane	0.200U	5.19	0.200	ug/Kg
124-48-1	Dibromochloromethane	0.259U	5.19	0.259	ug/Kg
74-95-3	Dibromomethane	0.189U	5.19	0.189	ug/Kg
75-71-8	Dichlorodifluoromethane	0.232U	5.19	0.232	ug/Kg
97-63-2	Ethyl methacrylate	0.204U	5.19	0.204	ug/Kg
100-41-4	Ethylbenzene	0.190U	5.19	0.190	ug/Kg
87-68-3	Hexachlorobutadiene	0.380U	5.19	0.380	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.108U	5.19	0.108	ug/Kg
126-98-7	Methacrylonitrile	1.03U	5.19	1.03	ug/Kg
74-88-4	Methyl iodide	0.373U	5.19	0.373	ug/Kg
80-62-6	Methyl methacrylate	0.276U	5.19	0.276	ug/Kg
75-09-2	Methylene chloride	0.531U	10.4	0.531	ug/Kg
91-20-3	Naphthalene	0.402U	5.19	0.402	ug/Kg
76-01-7	Pentachloroethane	0.847U	5.19	0.847	ug/Kg
107-12-0	Propionitrile	1.62U	5.19	1.62	ug/Kg
100-42-5	Styrene	0.087U	5.19	0.087	ug/Kg
127-18-4	**Tetrachloroethene**	**1.46J**	**5.19**	**0.307**	**ug/Kg**
108-88-3	Toluene	0.111U	5.19	0.111	ug/Kg
79-01-6	Trichloroethene	0.132U	5.19	0.132	ug/Kg
75-69-4	Trichlorofluoromethane	0.134U	5.19	0.134	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.386U	5.19	0.386	ug/Kg
108-05-4	Vinyl acetate	0.387U	5.19	0.387	ug/Kg
75-01-4	Vinyl chloride	0.201U	5.19	0.201	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.118U	5.19	0.118	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.134U	5.19	0.134	ug/Kg
136777-61-2	m,p-Xylene	0.173U	5.19	0.173	ug/Kg
104-51-8	n-Butylbenzene	0.180U	5.19	0.180	ug/Kg
110-54-3	**n-Hexane**	**0.640J**	**5.19**	**0.310**	**ug/Kg**
103-65-1	n-Propylbenzene	0.123U	5.19	0.123	ug/Kg
95-47-6	o-Xylene	0.083U	5.19	0.083	ug/Kg
135-98-8	sec-Butylbenzene	0.169U	5.19	0.169	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.063U	5.19	0.063	ug/Kg
98-06-6	tert-Butylbenzene	0.358U	5.19	0.358	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.124U	5.19	0.124	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.085U	5.19	0.085	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.537U	5.19	0.537	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	43.4	43.9	ug/Kg	101	59 - 148
1868-53-7	Dibromofluoromethane	43.4	44	ug/Kg	101	80 - 121
2037-26-5	Toluene d8	43.4	45.7	ug/Kg	105	71 - 130

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302001	**SD08-TEMP 1**	Solid	07/29/2014 13:10	07/30/2014 10:00

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/07/2014 22:24	JCK	538512

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
17060-07-0	1,2-Dichloroethane-d4	43.4	45.1	ug/Kg	104	77 - 123

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2014 16:00	537867	EPA 3050B	100	08/06/2014 16:48	BAM	538405

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**7250**	**95.6**	**23.9**	**mg/kg**
7440-39-3	**Barium**	**98.9**	**4.78**	**1.19**	**mg/kg**
7440-70-2	**Calcium**	**145000**	**2390**	**597**	**mg/kg**
7439-89-6	**Iron**	**7650**	**478**	**119**	**mg/kg**
7439-95-4	**Magnesium**	**4860**	**478**	**119**	**mg/kg**

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2014 16:00	537867	EPA 3050B	10	08/15/2014 04:19	BAM	538891

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.24U	0.96	0.24	mg/kg
7440-38-2	**Arsenic**	**4.06**	**0.48**	**0.12**	**mg/kg**
7440-41-7	**Beryllium**	**0.59**	**0.48**	**0.12**	**mg/kg**
7440-43-9	Cadmium	0.12U	0.48	0.12	mg/kg
7440-47-3	**Chromium**	**7.87**	**0.48**	**0.12**	**mg/kg**
7440-48-4	**Cobalt**	**3.10**	**0.48**	**0.12**	**mg/kg**
7440-50-8	**Copper**	**4.94**	**0.48**	**0.12**	**mg/kg**
7439-92-1	**Lead**	**5.26**	**0.48**	**0.12**	**mg/kg**
7439-96-5	**Manganese**	**186**	**2.39**	**0.60**	**mg/kg**
7440-02-0	**Nickel**	**8.98**	**0.96**	**0.24**	**mg/kg**
7440-09-7	**Potassium**	**1570**	**47.8**	**11.9**	**mg/kg**
7782-49-2	Selenium	0.12U	0.48	0.12	mg/kg
7440-22-4	Silver	0.12U	0.48	0.12	mg/kg
7440-28-0	Thallium	0.12U	0.48	0.12	mg/kg
7440-62-2	**Vanadium**	**18.2**	**0.48**	**0.12**	**mg/kg**
7440-66-6	**Zinc**	**24.3**	**9.56**	**2.39**	**mg/kg**

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2014 16:00	537867	EPA 3050B	10	08/18/2014 05:42	PJS	539190

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2550**	**47.8**	**11.9**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302001	**SD08-TEMP 1**	Solid	07/29/2014 13:10	07/30/2014 10:00

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2014 16:30	537868	EPA 7471B	1	08/05/2014 15:51	CMB	538343

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0054U	0.014	0.0054	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302002	**SD08-TEMP 2**	Solid	07/29/2014 12:00	07/30/2014 10:00

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	08/07/2014 12:11	LBH	538451

CAS#	Parameter	Result	RDL	MDL	Units
110-75-8	2-Chloroethylvinyl ether	65.3U	272	65.3	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2180	2250	ug/Kg	103	59 - 148
1868-53-7	Dibromofluoromethane	2180	2110	ug/Kg	97	80 - 121
2037-26-5	Toluene d8	2180	2070	ug/Kg	95	71 - 130
17060-07-0	1,2-Dichloroethane-d4	2180	2040	ug/Kg	94	77 - 123

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/07/2014 22:47	JCK	538512

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.155U	4.35	0.155	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.141U	4.35	0.141	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.152U	4.35	0.152	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.056U	4.35	0.056	ug/Kg
75-34-3	1,1-Dichloroethane	0.084U	4.35	0.084	ug/Kg
75-35-4	1,1-Dichloroethene	0.197U	4.35	0.197	ug/Kg
563-58-6	1,1-Dichloropropene	0.165U	4.35	0.165	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.314U	4.35	0.314	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.253U	4.35	0.253	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.265U	4.35	0.265	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.126U	4.35	0.126	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.248U	4.35	0.248	ug/Kg
106-93-4	1,2-Dibromoethane	0.179U	4.35	0.179	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.145U	4.35	0.145	ug/Kg
107-06-2	1,2-Dichloroethane	0.172U	4.35	0.172	ug/Kg
78-87-5	1,2-Dichloropropane	0.066U	4.35	0.066	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.115U	4.35	0.115	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.171U	4.35	0.171	ug/Kg
142-28-9	1,3-Dichloropropane	0.102U	4.35	0.102	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.174U	4.35	0.174	ug/Kg
544-10-5	1-Chlorohexane	0.199U	4.35	0.199	ug/Kg
594-20-7	2,2-Dichloropropane	0.217U	4.35	0.217	ug/Kg
78-93-3	2-Butanone	0.281U	4.35	0.281	ug/Kg
95-49-8	2-Chlorotoluene	0.128U	4.35	0.128	ug/Kg
591-78-6	2-Hexanone	0.257U	4.35	0.257	ug/Kg
106-43-4	4-Chlorotoluene	0.134U	4.35	0.134	ug/Kg
99-87-6	4-Isopropyltoluene	0.104U	4.35	0.104	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.134U	4.35	0.134	ug/Kg
67-64-1	Acetone	0.258U	21.8	0.258	ug/Kg
75-05-8	Acetonitrile	2.03U	87.0	2.03	ug/Kg
107-02-8	Acrolein	1.72U	21.8	1.72	ug/Kg
107-13-1	Acrylonitrile	0.787U	21.8	0.787	ug/Kg
107-05-1	Allyl chloride	0.259U	4.35	0.259	ug/Kg
71-43-2	Benzene	0.044U	4.35	0.044	ug/Kg
108-86-1	Bromobenzene	0.132U	4.35	0.132	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302002	**SD08-TEMP 2**	Solid	07/29/2014 12:00	07/30/2014 10:00

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/07/2014 22:47	JCK	538512

CAS#	Parameter	Result	RDL	MDL	Units
74-97-5	Bromochloromethane	0.289U	4.35	0.289	ug/Kg
75-27-4	Bromodichloromethane	0.090U	4.35	0.090	ug/Kg
75-25-2	Bromoform	0.380U	4.35	0.380	ug/Kg
74-83-9	Bromomethane	0.423U	4.35	0.423	ug/Kg
75-15-0	Carbon disulfide	0.163U	4.35	0.163	ug/Kg
56-23-5	Carbon tetrachloride	0.164U	4.35	0.164	ug/Kg
108-90-7	Chlorobenzene	0.112U	4.35	0.112	ug/Kg
75-00-3	Chloroethane	0.175U	4.35	0.175	ug/Kg
67-66-3	Chloroform	0.150U	4.35	0.150	ug/Kg
74-87-3	Chloromethane	0.168U	4.35	0.168	ug/Kg
124-48-1	Dibromochloromethane	0.218U	4.35	0.218	ug/Kg
74-95-3	Dibromomethane	0.159U	4.35	0.159	ug/Kg
75-71-8	Dichlorodifluoromethane	0.195U	4.35	0.195	ug/Kg
97-63-2	Ethyl methacrylate	0.171U	4.35	0.171	ug/Kg
100-41-4	Ethylbenzene	0.159U	4.35	0.159	ug/Kg
87-68-3	Hexachlorobutadiene	0.319U	4.35	0.319	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.091U	4.35	0.091	ug/Kg
126-98-7	Methacrylonitrile	0.867U	4.35	0.867	ug/Kg
74-88-4	Methyl iodide	0.313U	4.35	0.313	ug/Kg
80-62-6	Methyl methacrylate	0.232U	4.35	0.232	ug/Kg
75-09-2	**Methylene chloride**	**0.461J**	**8.70**	**0.445**	**ug/Kg**
91-20-3	Naphthalene	0.338U	4.35	0.338	ug/Kg
76-01-7	Pentachloroethane	0.711U	4.35	0.711	ug/Kg
107-12-0	Propionitrile	1.36U	4.35	1.36	ug/Kg
100-42-5	Styrene	0.073U	4.35	0.073	ug/Kg
127-18-4	**Tetrachloroethene**	**0.960J**	**4.35**	**0.258**	**ug/Kg**
108-88-3	Toluene	0.093U	4.35	0.093	ug/Kg
79-01-6	Trichloroethene	0.111U	4.35	0.111	ug/Kg
75-69-4	Trichlorofluoromethane	0.112U	4.35	0.112	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.324U	4.35	0.324	ug/Kg
108-05-4	Vinyl acetate	0.324U	4.35	0.324	ug/Kg
75-01-4	Vinyl chloride	0.169U	4.35	0.169	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.099U	4.35	0.099	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.112U	4.35	0.112	ug/Kg
136777-61-2	m,p-Xylene	0.145U	4.35	0.145	ug/Kg
104-51-8	n-Butylbenzene	0.151U	4.35	0.151	ug/Kg
110-54-3	**n-Hexane**	**0.517J**	**4.35**	**0.260**	**ug/Kg**
103-65-1	n-Propylbenzene	0.103U	4.35	0.103	ug/Kg
95-47-6	o-Xylene	0.070U	4.35	0.070	ug/Kg
135-98-8	sec-Butylbenzene	0.142U	4.35	0.142	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.053U	4.35	0.053	ug/Kg
98-06-6	tert-Butylbenzene	0.300U	4.35	0.300	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.104U	4.35	0.104	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.071U	4.35	0.071	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.451U	4.35	0.451	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	34.9	35.3	ug/Kg	101	59 - 148
1868-53-7	Dibromofluoromethane	34.9	36.4	ug/Kg	104	80 - 121
2037-26-5	Toluene d8	34.9	36.1	ug/Kg	104	71 - 130

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302002	**SD08-TEMP 2**	Solid	07/29/2014 12:00	07/30/2014 10:00

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/07/2014 22:47	JCK	538512

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
17060-07-0	1,2-Dichloroethane-d4	34.9	37.6	ug/Kg	108	77 - 123

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2014 16:00	537867	EPA 3050B	100	08/06/2014 16:54	BAM	538405

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**8130**	**99.9**	**25.0**	**mg/kg**
7440-39-3	**Barium**	**68.8**	**4.99**	**1.25**	**mg/kg**
7440-70-2	**Calcium**	**121000**	**2500**	**624**	**mg/kg**
7439-89-6	**Iron**	**7980**	**499**	**125**	**mg/kg**
7439-95-4	**Magnesium**	**21100**	**499**	**125**	**mg/kg**

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2014 16:00	537867	EPA 3050B	10	08/15/2014 04:27	BAM	538891

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.25U	1.0	0.25	mg/kg
7440-38-2	**Arsenic**	**3.22**	**0.50**	**0.12**	**mg/kg**
7440-41-7	**Beryllium**	**0.59**	**0.50**	**0.12**	**mg/kg**
7440-43-9	**Cadmium**	**0.14J**	**0.50**	**0.12**	**mg/kg**
7440-47-3	**Chromium**	**9.19**	**0.50**	**0.12**	**mg/kg**
7440-48-4	**Cobalt**	**3.21**	**0.50**	**0.12**	**mg/kg**
7440-50-8	**Copper**	**5.35**	**0.50**	**0.12**	**mg/kg**
7439-92-1	**Lead**	**5.49**	**0.50**	**0.12**	**mg/kg**
7439-96-5	**Manganese**	**97.1**	**2.50**	**0.62**	**mg/kg**
7440-02-0	**Nickel**	**8.91**	**1.0**	**0.25**	**mg/kg**
7440-09-7	**Potassium**	**2170**	**49.9**	**12.5**	**mg/kg**
7782-49-2	Selenium	0.12U	0.50	0.12	mg/kg
7440-22-4	Silver	0.12U	0.50	0.12	mg/kg
7440-28-0	Thallium	0.12U	0.50	0.12	mg/kg
7440-62-2	**Vanadium**	**17.7**	**0.50**	**0.12**	**mg/kg**
7440-66-6	**Zinc**	**25.6**	**9.99**	**2.50**	**mg/kg**

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2014 16:00	537867	EPA 3050B	10	08/18/2014 05:50	PJS	539190

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**3220**	**49.9**	**12.5**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302002	**SD08-TEMP 2**	Solid	07/29/2014 12:00	07/30/2014 10:00

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2014 16:30	537868	EPA 7471B	1	08/05/2014 15:52	CMB	538343

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0059U	0.015	0.0059	mg/kg

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302003	**TRIP BLANK**	Water	07/29/2014 00:00	07/30/2014 10:00

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2014 14:54	JCK	538622

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.079U	5.00	0.079	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
544-10-5	1-Chlorohexane	0.142U	5.00	0.142	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
110-75-8	2-Chloroethylvinyl ether	0.146U	5.00	0.146	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
75-05-8	Acetonitrile	2.09U	25.0	2.09	ug/L
107-02-8	Acrolein	0.784U	25.0	0.784	ug/L
107-13-1	Acrylonitrile	0.318U	25.0	0.318	ug/L
107-05-1	Allyl chloride	0.431U	25.0	0.431	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
97-63-2	Ethyl methacrylate	0.156U	5.00	0.156	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21407302003	**TRIP BLANK**	Water	07/29/2014 00:00	07/30/2014 10:00

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2014 14:54	JCK	538622

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
126-98-7	Methacrylonitrile	0.541U	5.00	0.541	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
80-62-6	Methyl methacrylate	0.858U	5.00	0.858	ug/L
75-09-2	**Methylene chloride**	**5.99**	**5.00**	**0.149**	**ug/L**
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
76-01-7	Pentachloroethane	0.199U	5.00	0.199	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
108-05-4	Vinyl acetate	0.151U	5.00	0.151	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
110-54-3	n-Hexane	0.163U	5.00	0.163	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.1	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	52.2	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48	ug/L	96	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch	538451	**Client ID**	MB538451			LCS538451			LCSD538451		
Prep Batch	N/A	**GCAL ID**	1345761			1345762			1345763		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	08/07/2014 11:23			08/07/2014 09:04			08/07/2014 09:27		
		Matrix	Solid			Solid			Solid		
EPA 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
110-75-8	2-Chloroethylvinyl ether		60.0U	60.0	2500	2930	117	52 - 142	3220	129	9	30
Surrogate												
460-00-4	4-Bromofluorobenzene		2620	105	2500	2560	102	59 - 148	2530	101		
1868-53-7	Dibromofluoromethane		2390	96	2500	2430	97	80 - 121	2520	101		
2037-26-5	Toluene d8		2360	94	2500	2270	91	71 - 130	2200	88		
17060-07-0	1,2-Dichloroethane-d4		2280	91	2500	2300	92	77 - 123	2380	95		

Analytical Batch	538512	**Client ID**	MB538512			LCS538512			LCSD538512		
Prep Batch	N/A	**GCAL ID**	1346121			1346122			1346123		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	08/07/2014 22:02			08/07/2014 19:46			08/07/2014 20:09		
		Matrix	Solid			Solid			Solid		
EPA 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.296U	0.296	50.0	49.6	99	61 - 144	51.9	104	5	30
107-02-8	Acrolein		1.98U	1.98	250	224	90	27 - 156	228	91	2	30
107-13-1	Acrylonitrile		0.904U	0.904	250	251	100	55 - 144	254	102	1	30
74-97-5	Bromochloromethane		0.332U	0.332	50.0	47.8	96	72 - 122	45.4	91	5	30
75-27-4	Bromodichloromethane		0.104U	0.104	50.0	47.1	94	73 - 122	48.2	96	2	30
75-25-2	Bromoform		0.437U	0.437	50.0	47.4	95	70 - 139	48.1	96	1	30
74-83-9	Bromomethane		0.486U	0.486	50.0	49.6	99	60 - 146	47.6	95	4	30
75-15-0	Carbon disulfide		0.187U	0.187	50.0	42.7	85	61 - 142	42.4	85	1	30
56-23-5	Carbon tetrachloride		0.189U	0.189	50.0	43.3	87	79 - 135	42.4	85	2	30
75-00-3	Chloroethane		0.202U	0.202	50.0	42.2	84	61 - 153	41.6	83	1	30
136777-61-2	m,p-Xylene		0.167U	0.167	100	93.4	93	82 - 128	92.9	93	1	30
67-66-3	Chloroform		0.172U	0.172	50.0	44.9	90	79 - 129	45.2	90	1	30
74-87-3	Chloromethane		0.193U	0.193	50.0	46.1	92	58 - 163	45.8	92	1	30
124-48-1	Dibromochloromethane		0.250U	0.250	50.0	48.4	97	78 - 117	49.0	98	1	30
74-95-3	Dibromomethane		0.182U	0.182	50.0	46.8	94	75 - 128	48.2	96	3	30
75-71-8	Dichlorodifluoromethane		0.224U	0.224	50.0	42.0	84	35 - 162	41.0	82	2	30
75-34-3	1,1-Dichloroethane		0.096U	0.096	50.0	44.1	88	77 - 132	44.1	88	0	30
107-06-2	1,2-Dichloroethane		0.198U	0.198	50.0	46.9	94	78 - 129	47.4	95	1	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	538512	**Client ID**	MB538512			LCS538512			LCSD538512		
Prep Batch	N/A	**GCAL ID**	1346121			1346122			1346123		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	08/07/2014 22:02			08/07/2014 19:46			08/07/2014 20:09		
		Matrix	Solid			Solid			Solid		
EPA 8260B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
156-59-2	cis-1,2-Dichloroethene	0.114U	0.114	50.0	47.2	94	74 - 123	47.7	95	1	30
156-60-5	trans-1,2-Dichloroethene	0.119U	0.119	50.0	44.0	88	77 - 129	44.6	89	1	30
75-09-2	Methylene chloride	0.512U	0.512	50.0	48.6	97	62 - 140	50.1	100	3	30
78-87-5	1,2-Dichloropropane	0.076U	0.076	50.0	47.2	94	74 - 127	48.2	96	2	30
10061-01-5	cis-1,3-Dichloropropene	0.129U	0.129	50.0	51.5	103	79 - 130	53.3	107	3	30
10061-02-6	trans-1,3-Dichloropropene	0.082U	0.082	50.0	50.0	100	87 - 131	51.1	102	2	30
100-41-4	Ethylbenzene	0.183U	0.183	50.0	45.8	92	82 - 124	44.8	90	2	30
97-63-2	Ethyl methacrylate	0.197U	0.197								
591-78-6	2-Hexanone	0.295U	0.295	50.0	49.9	100	67 - 130	51.2	102	3	30
98-82-8	Isopropylbenzene (Cumene)	0.105U	0.105	50.0	48.8	98	82 - 133	47.9	96	2	30
78-93-3	2-Butanone	0.323U	0.323	50.0	48.9	98	66 - 134	50.8	102	4	30
74-88-4	Methyl iodide	0.359U	0.359	50.0	39.4	79	66 - 128	40.1	80	2	30
108-10-1	4-Methyl-2-pentanone	0.154U	0.154	50.0	50.3	101	69 - 125	51.5	103	2	30
103-65-1	n-Propylbenzene	0.119U	0.119	50.0	44.7	89	78 - 129	44.2	88	1	30
100-42-5	Styrene	0.083U	0.083	50.0	50.6	101	79 - 123	50.6	101	0	30
127-18-4	Tetrachloroethene	0.296U	0.296	50.0	42.0	84	79 - 132	41.1	82	2	30
630-20-6	1,1,1,2-Tetrachloroethane	0.178U	0.178	50.0	46.5	93	81 - 121	46.8	94	1	30
79-34-5	1,1,2,2-Tetrachloroethane	0.175U	0.175	50.0	45.5	91	70 - 128	45.8	92	1	30
120-82-1	1,2,4-Trichlorobenzene	0.305U	0.305	50.0	49.4	99	82 - 137	49.8	100	1	30
71-55-6	1,1,1-Trichloroethane	0.162U	0.162	50.0	43.2	86	80 - 133	42.2	84	2	30
79-00-5	1,1,2-Trichloroethane	0.064U	0.064	50.0	46.5	93	76 - 118	46.8	94	1	30
75-69-4	Trichlorofluoromethane	0.129U	0.129	50.0	41.8	84	67 - 149	40.9	82	2	30
96-18-4	1,2,3-Trichloropropane	0.291U	0.291	50.0	44.9	90	74 - 125	46.5	93	4	30
95-63-6	1,2,4-Trimethylbenzene	0.144U	0.144	50.0	48.5	97	77 - 129	48.3	97	0	30
108-67-8	1,3,5-Trimethylbenzene	0.132U	0.132	50.0	47.3	95	79 - 129	46.8	94	1	30
75-01-4	Vinyl chloride	0.194U	0.194	50.0	44.1	88	60 - 145	43.2	86	2	30
95-47-6	o-Xylene	0.080U	0.080	50.0	50.8	102	82 - 126	50.9	102	0	30
96-12-8	1,2-Dibromo-3-chloropropane	0.285U	0.285	50.0	49.4	99	67 - 129	49.3	99	0	30
106-93-4	1,2-Dibromoethane	0.206U	0.206	50.0	48.5	97	77 - 126	48.5	97	0	30
80-62-6	Methyl methacrylate	0.266U	0.266								
107-12-0	Propionitrile	1.56U	1.56								
108-05-4	Vinyl acetate	0.373U	0.373	50.0	47.6	95	25 - 164	47.7	95	0	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.061U	0.061	50.0	47.7	95	70 - 131	49.3	99	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	538512	**Client ID**	MB538512			LCS538512			LCSD538512		
Prep Batch	N/A	**GCAL ID**	1346121			1346122			1346123		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	08/07/2014 22:02			08/07/2014 19:46			08/07/2014 20:09		
		Matrix	Solid			Solid			Solid		
EPA 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
99-87-6	4-Isopropyltoluene		0.119U	0.119	50.0	47.6	95	82 - 132	47.2	94	1	30
110-54-3	n-Hexane		1.18J	0.299	50.0	41.9	84	65 - 147	41.2	82	2	30
110-57-6	trans-1,4-Dichloro-2-butene		0.518U	0.518	50.0	48.3	97	74 - 138	48.8	98	1	30
594-20-7	2,2-Dichloropropane		0.249U	0.249	50.0	43.5	87	80 - 137	43.2	86	1	30
76-13-1	Trichlorotrifluoroethane		0.372U	0.372	50.0	41.8	84	62 - 147	40.7	81	3	30
563-58-6	1,1-Dichloropropene		0.190U	0.190	50.0	45.7	91	81 - 133	44.6	89	2	30
110-75-8	2-Chloroethylvinyl ether		1.20U	1.20								
142-28-9	1,3-Dichloropropane		0.117U	0.117	50.0	48.4	97	78 - 118	48.8	98	1	30
108-86-1	Bromobenzene		0.152U	0.152	50.0	45.8	92	78 - 123	45.7	91	0	30
95-49-8	2-Chlorotoluene		0.147U	0.147	50.0	47.0	94	77 - 123	46.6	93	1	30
106-43-4	4-Chlorotoluene		0.154U	0.154	50.0	47.7	95	78 - 129	47.2	94	1	30
98-06-6	tert-Butylbenzene		0.345U	0.345	50.0	47.4	95	79 - 130	46.7	93	1	30
135-98-8	sec-Butylbenzene		0.163U	0.163	50.0	46.1	92	82 - 132	45.1	90	2	30
541-73-1	1,3-Dichlorobenzene		0.196U	0.196	50.0	45.9	92	82 - 126	46.1	92	0	30
106-46-7	1,4-Dichlorobenzene		0.200U	0.200	50.0	44.5	89	84 - 124	44.5	89	0	30
104-51-8	n-Butylbenzene		0.173U	0.173	50.0	46.7	93	80 - 138	46.0	92	2	30
95-50-1	1,2-Dichlorobenzene		0.166U	0.166	50.0	47.2	94	83 - 123	47.8	96	1	30
87-68-3	Hexachlorobutadiene		0.367U	0.367	50.0	44.3	89	77 - 150	43.1	86	3	30
91-20-3	Naphthalene		0.388U	0.388	50.0	52.2	104	59 - 143	54.5	109	4	35
87-61-6	1,2,3-Trichlorobenzene		0.360U	0.360	50.0	49.2	98	78 - 136	50.0	100	2	30
75-05-8	Acetonitrile		2.33U	2.33								
107-05-1	Allyl chloride		0.298U	0.298								
544-10-5	1-Chlorohexane		0.229U	0.229	50.0	44.5	89	85 - 137	46.9	94	5	30
76-01-7	Pentachloroethane		0.817U	0.817								
126-98-7	Methacrylonitrile		0.996U	0.996								
75-35-4	1,1-Dichloroethene		0.227U	0.227	50.0	42.6	85	66 - 132	42.9	86	1	20
71-43-2	Benzene		0.051U	0.051	50.0	46.2	92	78 - 130	44.6	89	4	20
79-01-6	Trichloroethene		0.127U	0.127	50.0	44.3	89	78 - 132	42.9	86	3	20
108-88-3	Toluene		0.107U	0.107	50.0	44.9	90	80 - 123	44.1	88	2	20
108-90-7	Chlorobenzene		0.129U	0.129	50.0	45.4	91	83 - 122	45.1	90	1	20
Surrogate												
460-00-4	4-Bromofluorobenzene		50.5	101	50	50.4	101	59 - 148	50.3	101		
1868-53-7	Dibromofluoromethane		49.8	100	50	49.5	99	80 - 121	49.1	98		

GC/MS Volatiles Quality Control Summary

Analytical Batch	538512	**Client ID**	MB538512			LCS538512			LCSD538512			
Prep Batch	N/A	**GCAL ID**	1346121			1346122			1346123			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	08/07/2014 22:02			08/07/2014 19:46			08/07/2014 20:09			
		Matrix	Solid			Solid			Solid			
EPA 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
2037-26-5	Toluene d8		51.5	103	50	49.8	100	71 - 130	49.9	100		
17060-07-0	1,2-Dichloroethane-d4		51.2	102	50	49.5	99	77 - 123	48.8	98		

Analytical Batch	538512	**Client ID**	MB538512			LCS538512			LCSD538512			
Prep Batch	N/A	**GCAL ID**	1346121			1346218			1346219			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	08/07/2014 22:02			08/07/2014 20:54			08/07/2014 21:17			
		Matrix	Solid			Solid			Solid			
EPA 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.296U	0.296								
107-02-8	Acrolein		1.98U	1.98								
107-13-1	Acrylonitrile		0.904U	0.904								
74-97-5	Bromochloromethane		0.332U	0.332								
75-27-4	Bromodichloromethane		0.104U	0.104								
75-25-2	Bromoform		0.437U	0.437								
74-83-9	Bromomethane		0.486U	0.486								
75-15-0	Carbon disulfide		0.187U	0.187								
56-23-5	Carbon tetrachloride		0.189U	0.189								
75-00-3	Chloroethane		0.202U	0.202								
136777-61-2	m,p-Xylene		0.167U	0.167								
67-66-3	Chloroform		0.172U	0.172								
74-87-3	Chloromethane		0.193U	0.193								
124-48-1	Dibromochloromethane		0.250U	0.250								
74-95-3	Dibromomethane		0.182U	0.182								
75-71-8	Dichlorodifluoromethane		0.224U	0.224								
75-34-3	1,1-Dichloroethane		0.096U	0.096								
107-06-2	1,2-Dichloroethane		0.198U	0.198								
156-59-2	cis-1,2-Dichloroethene		0.114U	0.114								
156-60-5	trans-1,2-Dichloroethene		0.119U	0.119								
75-09-2	Methylene chloride		0.512U	0.512								
78-87-5	1,2-Dichloropropane		0.076U	0.076								

GC/MS Volatiles Quality Control Summary

Analytical Batch	538512	**Client ID**	MB538512		LCS538512				LCSD538512		
Prep Batch	N/A	**GCAL ID**	1346121		1346218				1346219		
		Sample Type	Method Blank		LCS				LCSD		
		Analytical Date	08/07/2014 22:02		08/07/2014 20:54				08/07/2014 21:17		
		Matrix	Solid		Solid				Solid		

EPA 8260B		**Units**	ug/Kg	**Spike**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
		Result	**RDL**	**Added**							
10061-01-5	cis-1,3-Dichloropropene	0.129U	0.129								
10061-02-6	trans-1,3-Dichloropropene	0.082U	0.082								
100-41-4	Ethylbenzene	0.183U	0.183								
97-63-2	Ethyl methacrylate	0.197U	0.197	50.0	59.3	**119***	78 - 118	58.8	118	1	30
591-78-6	2-Hexanone	0.295U	0.295								
98-82-8	Isopropylbenzene (Cumene)	0.105U	0.105								
78-93-3	2-Butanone	0.323U	0.323								
74-88-4	Methyl iodide	0.359U	0.359								
108-10-1	4-Methyl-2-pentanone	0.154U	0.154								
103-65-1	n-Propylbenzene	0.119U	0.119								
100-42-5	Styrene	0.083U	0.083								
127-18-4	Tetrachloroethene	0.296U	0.296								
630-20-6	1,1,1,2-Tetrachloroethane	0.178U	0.178								
79-34-5	1,1,2,2-Tetrachloroethane	0.175U	0.175								
120-82-1	1,2,4-Trichlorobenzene	0.305U	0.305								
71-55-6	1,1,1-Trichloroethane	0.162U	0.162								
79-00-5	1,1,2-Trichloroethane	0.064U	0.064								
75-69-4	Trichlorofluoromethane	0.129U	0.129								
96-18-4	1,2,3-Trichloropropane	0.291U	0.291								
95-63-6	1,2,4-Trimethylbenzene	0.144U	0.144								
108-67-8	1,3,5-Trimethylbenzene	0.132U	0.132								
75-01-4	Vinyl chloride	0.194U	0.194								
95-47-6	o-Xylene	0.080U	0.080								
96-12-8	1,2-Dibromo-3-chloropropane	0.285U	0.285								
106-93-4	1,2-Dibromoethane	0.206U	0.206								
80-62-6	Methyl methacrylate	0.266U	0.266	50.0	54.6	109	73 - 125	54.1	108	1	30
107-12-0	Propionitrile	1.56U	1.56	250	263	105	73 - 133	264	106	0	30
108-05-4	Vinyl acetate	0.373U	0.373								
1634-04-4	tert-Butyl methyl ether (MTBE)	0.061U	0.061								
99-87-6	4-Isopropyltoluene	0.119U	0.119								
110-54-3	n-Hexane	1.18J	0.299								
110-57-6	trans-1,4-Dichloro-2-butene	0.518U	0.518								
594-20-7	2,2-Dichloropropane	0.249U	0.249								

GC/MS Volatiles Quality Control Summary

Analytical Batch	538512	**Client ID**	MB538512			LCS538512			LCSD538512		
Prep Batch	N/A	**GCAL ID**	1346121			1346218			1346219		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	08/07/2014 22:02			08/07/2014 20:54			08/07/2014 21:17		
		Matrix	Solid			Solid			Solid		
EPA 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
76-13-1	Trichlorotrifluoroethane		0.372U	0.372								
563-58-6	1,1-Dichloropropene		0.190U	0.190								
110-75-8	2-Chloroethylvinyl ether		1.20U	1.20								
142-28-9	1,3-Dichloropropane		0.117U	0.117								
108-86-1	Bromobenzene		0.152U	0.152								
95-49-8	2-Chlorotoluene		0.147U	0.147								
106-43-4	4-Chlorotoluene		0.154U	0.154								
98-06-6	tert-Butylbenzene		0.345U	0.345								
135-98-8	sec-Butylbenzene		0.163U	0.163								
541-73-1	1,3-Dichlorobenzene		0.196U	0.196								
106-46-7	1,4-Dichlorobenzene		0.200U	0.200								
104-51-8	n-Butylbenzene		0.173U	0.173								
95-50-1	1,2-Dichlorobenzene		0.166U	0.166								
87-68-3	Hexachlorobutadiene		0.367U	0.367								
91-20-3	Naphthalene		0.388U	0.388								
87-61-6	1,2,3-Trichlorobenzene		0.360U	0.360								
75-05-8	Acetonitrile		2.33U	2.33	250	275	110	59 - 139	260	104	6	30
107-05-1	Allyl chloride		0.298U	0.298	50.0	44.9	90	41 - 152	42.1	84	6	30
544-10-5	1-Chlorohexane		0.229U	0.229								
76-01-7	Pentachloroethane		0.817U	0.817	50.0	107	**214***	64 - 156	92.5	**185***	15	30
126-98-7	Methacrylonitrile		0.996U	0.996	50.0	55.4	111	70 - 138	55.0	110	1	30
75-35-4	1,1-Dichloroethene		0.227U	0.227								
71-43-2	Benzene		0.051U	0.051								
79-01-6	Trichloroethene		0.127U	0.127								
108-88-3	Toluene		0.107U	0.107								
108-90-7	Chlorobenzene		0.129U	0.129								
Surrogate												
460-00-4	4-Bromofluorobenzene		50.5	101	50	50.3	101	59 - 148	50	100		
1868-53-7	Dibromofluoromethane		49.8	100	50	48.6	97	80 - 121	49	98		
2037-26-5	Toluene d8		51.5	103	50	51.3	103	71 - 130	51.9	104		
17060-07-0	1,2-Dichloroethane-d4		51.2	102	50	49.7	99	77 - 123	49.3	99		

GC/MS Volatiles Quality Control Summary

Analytical Batch 538622	**Client ID**	MB538622	LCS538622	LCSD538622
Prep Batch N/A	**GCAL ID**	1346831	1346832	1346833
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	08/09/2014 14:08	08/09/2014 11:49	08/09/2014 12:12
	Matrix	Water	Water	Water

EPA 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.193U	0.193	50.0	37.9	76	59 - 134	40.2	80	6	30
107-02-8	Acrolein	0.784U	0.784	250	248	99	33 - 157	260	104	5	30
107-13-1	Acrylonitrile	0.318U	0.318	250	245	98	62 - 124	254	102	4	30
74-97-5	Bromochloromethane	0.127U	0.127	50.0	49.2	98	78 - 112	50.5	101	3	30
75-27-4	Bromodichloromethane	0.083U	0.083	50.0	50.0	100	76 - 116	51.4	103	3	30
75-25-2	Bromoform	0.215U	0.215	50.0	46.9	94	68 - 128	48.1	96	3	30
74-83-9	Bromomethane	0.427U	0.427	50.0	56.8	114	55 - 151	57.8	116	2	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	50.0	100	67 - 147	49.4	99	1	30
56-23-5	Carbon tetrachloride	0.248U	0.248	50.0	45.2	90	74 - 139	46.1	92	2	30
75-00-3	Chloroethane	0.235U	0.235	50.0	62.8	126	54 - 166	74.5	149	17	30
136777-61-2	m,p-Xylene	0.123U	0.123	100	96.7	97	83 - 121	96.6	97	0	30
67-66-3	Chloroform	0.155U	0.155	50.0	47.1	94	85 - 123	48.1	96	2	30
74-87-3	Chloromethane	0.144U	0.144	50.0	41.1	82	55 - 173	39.2	78	5	30
124-48-1	Dibromochloromethane	0.054U	0.054	50.0	48.0	96	74 - 116	48.6	97	1	30
74-95-3	Dibromomethane	0.211U	0.211	50.0	48.7	97	81 - 116	50.2	100	3	30
75-71-8	Dichlorodifluoromethane	0.145U	0.145	50.0	49.7	99	34 - 158	50.2	100	1	30
75-34-3	1,1-Dichloroethane	0.171U	0.171	50.0	46.6	93	82 - 127	46.8	94	0	30
107-06-2	1,2-Dichloroethane	0.116U	0.116	50.0	48.2	96	76 - 122	49.3	99	2	30
156-59-2	cis-1,2-Dichloroethene	0.103U	0.103	50.0	45.7	91	81 - 114	46.7	93	2	30
156-60-5	trans-1,2-Dichloroethene	0.077U	0.077	50.0	45.7	91	82 - 126	46.2	92	1	30
75-09-2	Methylene chloride	0.149U	0.149	50.0	42.6	85	69 - 125	42.9	86	1	30
78-87-5	1,2-Dichloropropane	0.150U	0.150	50.0	47.0	94	81 - 120	48.8	98	4	30
10061-01-5	cis-1,3-Dichloropropene	0.124U	0.124	50.0	46.4	93	83 - 119	47.4	95	2	30
10061-02-6	trans-1,3-Dichloropropene	0.128U	0.128	50.0	47.6	95	87 - 123	48.2	96	1	30
100-41-4	Ethylbenzene	0.109U	0.109	50.0	49.6	99	87 - 118	49.5	99	0	30
97-63-2	Ethyl methacrylate	0.156U	0.156								
591-78-6	2-Hexanone	0.122U	0.122	50.0	44.7	89	58 - 125	47.6	95	6	30
98-82-8	Isopropylbenzene (Cumene)	0.130U	0.130	50.0	50.0	100	87 - 131	49.6	99	1	30
78-93-3	2-Butanone	0.142U	0.142	50.0	41.4	83	61 - 127	45.4	91	9	30
74-88-4	Methyl iodide	0.084U	0.084	50.0	38.4	77	72 - 125	40.6	81	6	30
108-10-1	4-Methyl-2-pentanone	0.120U	0.120	50.0	44.6	89	62 - 125	47.1	94	5	30
103-65-1	n-Propylbenzene	0.727U	0.727	50.0	46.4	93	86 - 125	46.2	92	0	30
100-42-5	Styrene	0.089U	0.089	50.0	49.2	98	78 - 118	50.0	100	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	538622	**Client ID**	MB538622			LCS538622			LCSD538622		
Prep Batch	N/A	**GCAL ID**	1346831			1346832			1346833		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	08/09/2014 14:08			08/09/2014 11:49			08/09/2014 12:12		
		Matrix	Water			Water			Water		
EPA 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
127-18-4	Tetrachloroethene		0.193U	0.193	50.0	50.1	100	80 - 131	49.7	99	1	30
630-20-6	1,1,1,2-Tetrachloroethane		0.120U	0.120	50.0	50.7	101	81 - 119	51.8	104	2	30
79-34-5	1,1,2,2-Tetrachloroethane		0.109U	0.109	50.0	48.6	97	71 - 120	49.9	100	3	30
120-82-1	1,2,4-Trichlorobenzene		0.105U	0.105	50.0	56.3	113	68 - 123	57.5	115	2	30
71-55-6	1,1,1-Trichloroethane		0.123U	0.123	50.0	48.7	97	79 - 133	49.0	98	1	30
79-00-5	1,1,2-Trichloroethane		0.159U	0.159	50.0	47.9	96	80 - 114	49.1	98	2	30
75-69-4	Trichlorofluoromethane		0.157U	0.157	50.0	46.4	93	66 - 156	46.4	93	0	30
96-18-4	1,2,3-Trichloropropane		0.065U	0.065	50.0	46.5	93	77 - 115	48.4	97	4	30
95-63-6	1,2,4-Trimethylbenzene		0.084U	0.084	50.0	48.2	96	82 - 120	47.8	96	1	30
108-67-8	1,3,5-Trimethylbenzene		0.066U	0.066	50.0	47.4	95	83 - 123	47.3	95	0	30
75-01-4	Vinyl chloride		0.127U	0.127	50.0	45.7	91	57 - 153	46.9	94	3	30
95-47-6	o-Xylene		0.055U	0.055	50.0	49.8	100	83 - 121	50.0	100	0	30
96-12-8	1,2-Dibromo-3-chloropropane		0.194U	0.194	50.0	44.6	89	61 - 118	47.3	95	6	30
106-93-4	1,2-Dibromoethane		0.102U	0.102	50.0	50.5	101	80 - 115	52.1	104	3	30
80-62-6	Methyl methacrylate		0.858U	0.858								
107-12-0	Propionitrile		3.06U	3.06								
108-05-4	Vinyl acetate		0.151U	0.151	50.0	52.0	104	38 - 159	51.0	102	2	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.078U	0.078	50.0	48.4	97	75 - 116	51.0	102	5	30
99-87-6	4-Isopropyltoluene		0.070U	0.070	50.0	50.4	101	83 - 125	49.3	99	2	30
110-54-3	n-Hexane		0.163U	0.163	50.0	46.8	94	71 - 134	47.4	95	1	30
110-57-6	trans-1,4-Dichloro-2-butene		0.264U	0.264	50.0	48.8	98	51 - 137	51.9	104	6	30
594-20-7	2,2-Dichloropropane		0.170U	0.170	50.0	54.8	110	77 - 138	54.1	108	1	30
76-13-1	Trichlorotrifluoroethane		0.158U	0.158	50.0	46.9	94	74 - 139	47.8	96	2	30
563-58-6	1,1-Dichloropropene		0.052U	0.052	50.0	48.0	96	87 - 127	48.5	97	1	30
110-75-8	2-Chloroethylvinyl ether		0.146U	0.146	50.0	59.4	119	63 - 125	60.6	121	2	30
142-28-9	1,3-Dichloropropane		0.059U	0.059	50.0	47.5	95	81 - 113	48.6	97	2	30
108-86-1	Bromobenzene		0.145U	0.145	50.0	45.1	90	83 - 115	45.7	91	1	30
95-49-8	2-Chlorotoluene		0.080U	0.080	50.0	46.1	92	81 - 121	46.1	92	0	30
106-43-4	4-Chlorotoluene		0.124U	0.124	50.0	46.5	93	84 - 120	46.9	94	1	30
98-06-6	tert-Butylbenzene		0.087U	0.087	50.0	48.0	96	83 - 126	47.7	95	1	30
135-98-8	sec-Butylbenzene		0.107U	0.107	50.0	48.7	97	86 - 127	48.2	96	1	30
541-73-1	1,3-Dichlorobenzene		0.138U	0.138	50.0	48.9	98	86 - 115	48.9	98	0	30
106-46-7	1,4-Dichlorobenzene		0.083U	0.083	50.0	47.5	95	87 - 113	47.6	95	0	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	538622	**Client ID**	MB538622			LCS538622			LCSD538622		
Prep Batch	N/A	**GCAL ID**	1346831			1346832			1346833		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	08/09/2014 14:08			08/09/2014 11:49			08/09/2014 12:12		
		Matrix	Water			Water			Water		
EPA 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.123U	0.123	50.0	50.3	101	84 - 124	49.0	98	3	30
95-50-1	1,2-Dichlorobenzene		0.135U	0.135	50.0	48.0	96	85 - 115	49.3	99	3	30
87-68-3	Hexachlorobutadiene		0.265U	0.265	50.0	54.3	109	71 - 133	54.0	108	1	30
91-20-3	Naphthalene		0.176U	0.176	50.0	45.9	92	59 - 125	49.6	99	8	35
87-61-6	1,2,3-Trichlorobenzene		0.079U	0.079	50.0	54.6	109	64 - 126	56.5	113	3	30
75-05-8	Acetonitrile		2.09U	2.09								
107-05-1	Allyl chloride		0.431U	0.431								
544-10-5	1-Chlorohexane		0.142U	0.142	50.0	49.7	99	87 - 128	52.3	105	5	30
76-01-7	Pentachloroethane		0.199U	0.199								
126-98-7	Methacrylonitrile		0.541U	0.541								
75-35-4	1,1-Dichloroethene		0.208U	0.208	50.0	44.3	89	75 - 133	45.4	91	2	20
71-43-2	Benzene		0.111U	0.111	50.0	45.7	91	83 - 124	46.3	93	1	20
79-01-6	Trichloroethene		0.161U	0.161	50.0	45.1	90	85 - 124	46.9	94	4	20
108-88-3	Toluene		0.122U	0.122	50.0	47.1	94	86 - 116	46.9	94	0	20
108-90-7	Chlorobenzene		0.083U	0.083	50.0	46.4	93	87 - 115	46.2	92	0	20
Surrogate												
460-00-4	4-Bromofluorobenzene		49.1	98	50	54.9	110	84 - 120	54.2	108		
1868-53-7	Dibromofluoromethane		50.4	101	50	51.3	103	87 - 116	51.5	103		
2037-26-5	Toluene d8		51.3	103	50	50	100	86 - 112	50.3	101		
17060-07-0	1,2-Dichloroethane-d4		49.7	99	50	49.8	100	76 - 127	50.2	100		

Inorganics Quality Control Summary

Analytical Batch 538333	**Client ID**	MB537867		LCS537867
Prep Batch 537867	**GCAL ID**	1343196		1343197
Prep Method EPA 3050B	**Sample Type**	Method Blank		LCS
	Prep Date	07/30/2014 16:00		07/30/2014 16:00
	Analytical Date	08/04/2014 11:26		08/04/2014 11:34
	Matrix	Solid		Solid

EPA 6020A		**Units**	mg/kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.34J	0.20	40.0	43.6	109	80 - 120
7440-36-0	Antimony	0.099	0.020	4.00	4.48	112	80 - 120
7440-38-2	Arsenic	0.010U	0.010	2.00	1.99	100	80 - 120
7440-39-3	Barium	0.010U	0.010	2.00	2.12	106	80 - 120
7440-41-7	Beryllium	0.010U	0.010	2.00	2.05	102	80 - 120
7440-43-9	Cadmium	0.010U	0.010	2.00	2.02	101	80 - 120
7440-70-2	Calcium	11.6J	5.00	1000	1070	107	80 - 120
7440-47-3	Chromium	0.010U	0.010	2.00	2.10	105	80 - 120
7440-48-4	Cobalt	0.010U	0.010	2.00	2.12	106	80 - 120
7440-50-8	Copper	0.010U	0.010	2.00	2.07	104	80 - 120
7439-89-6	Iron	1.06J	1.00	200	212	106	80 - 120
7439-92-1	Lead	0.010U	0.010	2.00	2.10	105	80 - 120
7439-95-4	Magnesium	1.00U	1.00	200	217	109	80 - 120
7439-96-5	Manganese	0.050U	0.050	2.00	2.07	103	80 - 120
7440-02-0	Nickel	0.020U	0.020	4.00	4.21	105	80 - 120
7440-09-7	Potassium	1.00U	1.00	200	213	107	80 - 120
7782-49-2	Selenium	0.010U	0.010	0.40	0.40	99	80 - 120
7440-22-4	Silver	0.010U	0.010	2.00	1.99	99	80 - 120
7440-23-5	Sodium	1.00U	1.00	200	213	107	80 - 120
7440-28-0	Thallium	0.010U	0.010	2.00	1.95	97	80 - 120
7440-62-2	Vanadium	0.010U	0.010	2.00	2.09	104	80 - 120
7440-66-6	Zinc	0.24J	0.20	40.0	39.1	98	80 - 120

Inorganics Quality Control Summary

Analytical Batch	538343	**Client ID**	MB537868		LCS537868		
Prep Batch	537868	**GCAL ID**	1343200		1343201		
Prep Method	EPA 7471B	**Sample Type**	Method Blank		LCS		
		Prep Date	07/30/2014 16:30		07/30/2014 16:30		
		Analytical Date	08/05/2014 15:42		08/05/2014 15:43		
		Matrix	Solid		Solid		
EPA 7471B		**Units**	mg/kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.0040U	0.0040	0.25	0.26	105	80 - 120

Analytical Batch	538343	**Client ID**	S-2		1343181MS			1343181MSD			
Prep Batch	537868	**GCAL ID**	21407295002		1343202			1343203			
Prep Method	EPA 7471B	**Sample Type**	SAMPLE		MS			MSD			
		Prep Date	07/30/2014 16:30		07/30/2014 16:30			07/30/2014 16:30			
		Analytical Date	08/05/2014 15:54		08/05/2014 15:56			08/05/2014 15:58			
		Matrix	Solid		Solid			Solid			
EPA 7471B		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.014	0.0040	0.25	0.25	93	80 - 120	0.26	98	4	20

NATIONVIEW

NV Project No: 10-0004

COC Number(1): 07292014

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08

Client Name: USACE Omaha District

Collected by: Tony Lucero / Lance Williams

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Sample Analysis Requested (5): Number of containers	VOCs (8260B)	AL Metals (6010C/7471A)						Quality Assurance Samples (6): Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

214073020

SAMPLE DELIVERY GROUP 214073020	
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile Number 204817	**Received By** Saucier, Charlotte M.
Line Item(s) 1 - Water 2 - Soil	**Receive Date(s)** 07/30/14

CHECKLIST	YES	NO	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☑	☐	☐
Was preservative added to any container at the lab?	☐	☑	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☑	☐	☐
Do all sample labels match [redacted]			

COOLERS

Airbill	Thermometer ID: E22	Temp(°C)
7707 1336 5630		1.9

DISCREPANCIES

21407302001 - SD08-TEMP 1:

Sample Discrepancy

LAB PRESERVATIONS

None

NOTES Sample SD08-Temp 1 was labeled incorrectly on the containers, logged in per COC.

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER L13-190

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC

7979 Innovation Park Dr.

Baton Rouge, LA 70820

Report Date 08/22/2014

GCAL Report 214080115

Deliver To	Bhate Environmental Associates 445 Union Blvd Suite 129 Denver, CO 80228 303-597-2450 Ext. 103
Attn	Marcia Olive

Project Holloman AFB SD-08

Case Narrative

Client: NationView LLC **Report:** 214080115

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.

VOLATILES MASS SPECTROMETRY

In the EPA 8260B analysis for analytical batch 538223, the LCS and/or LCSD recoveries are above the upper control limit for Dibromomethane. This compound was not detected in the associated samples.

METALS

In the EPA 6020A and EPA 6020A Dissolved analyses for prep batch 538111, the MS/MSD recoveries are not applicable because the spike was diluted out of the samples. All LCS recoveries are acceptable.

In the EPA 6020A Dissolved analysis, samples 21408011501 (SD08-TEMP 2), 21408011502 (MW-09-01) and 21408011504 (SD08-TEMP 1) had to be diluted in order to bracket the concentration within the calibration range of the instrument.

In the EPA 6020A Dissolved analysis, a chemical or physical interference necessitated a dilution for samples 21408011501 (SD08-TEMP 2), 21408011502 (MW-09-01), 21408011503 (SD08-MW10) and 21408011504 (SD08-TEMP 1). This is reflected in the elevated reporting limits.

In the EPA 7470A analysis for prep batch 538191, 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. The MS/MSD recoveries are not applicable for Mercury because the sample concentration is greater than four times the spike concentration. Mercury was detected in the method blank. The concentration was insignificant as compared to the concentration detected in the associated sample(s).

CONVENTIONALS

In the SM 2540 C analysis, samples 21408011501 (SD08-TEMP 2), 21408011502 (MW-09-01) and 21408011504 (SD08-TEMP 1) had to be diluted prior to filtration in order not to exceed the maximum residue allowed by the method.

In the EPA 300.0 analysis, a chemical or physical interference necessitated a dilution for samples 21408011501 (SD08-TEMP 2), 21408011502 (MW-09-01), 21408011503 (SD08-MW10) and 21408011504 (SD08-TEMP 1). This is reflected in the elevated reporting limit.

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.

_____

Authorized Signature
GCAL REPORT 214080115

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011501	SD08-TEMP 2	Water	07/31/2014 10:15	08/01/2014 10:30
21408011502	MW-09-01	Water	07/31/2014 11:40	08/01/2014 10:30
21408011503	SD08-MW10	Water	07/31/2014 12:45	08/01/2014 10:30
21408011504	SD08-TEMP 1	Water	07/31/2014 14:10	08/01/2014 10:30
21408011505	TRIP BLANK	Water	07/31/2014 00:00	08/01/2014 10:30

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011501	**SD08-TEMP 2**	Water	07/31/2014 10:15	08/01/2014 10:30

EPA 6020A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.068J	0.20	0.050	mg/L
7440-70-2	Calcium	660	50.0	12.5	mg/L
7440-50-8	Copper	0.072J	0.10	0.025	mg/L
7439-96-5	Manganese	0.61	0.50	0.13	mg/L
7440-09-7	Potassium	31.5	10.0	2.50	mg/L

EPA 6020A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	Magnesium	2320	100	25.0	mg/L
7440-23-5	Sodium	8360	100	25.0	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	50800	100	100	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	23.8	20.0	5.00	mg/L

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	1.43J	5.00	0.111	ug/L
67-66-3	Chloroform	0.514J	5.00	0.155	ug/L

EPA 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000087J	0.00020	0.000070	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011502	**MW-09-01**	Water	07/31/2014 11:40	08/01/2014 10:30

EPA 6020A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	591	50.0	12.5	mg/L
7440-50-8	Copper	0.055J	0.10	0.025	mg/L
7440-09-7	Potassium	9.66J	10.0	2.50	mg/L
7440-62-2	Vanadium	0.036J	0.10	0.025	mg/L

EPA 6020A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	Magnesium	1250	100	25.0	mg/L
7440-23-5	Sodium	5340	100	25.0	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	29400	100	100	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	18.8J	20.0	5.00	mg/L

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-66-3	Chloroform	0.562J	5.00	0.155	ug/L

EPA 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00011J	0.00020	0.000070	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011503	**SD08-MW10**	Water	07/31/2014 12:45	08/01/2014 10:30

EPA 6020A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.0081J	0.020	0.0050	mg/L
7440-38-2	Arsenic	0.036	0.0010	0.00025	mg/L
7440-39-3	Barium	0.025	0.0010	0.00025	mg/L
7440-48-4	Cobalt	0.0035	0.0010	0.00025	mg/L
7439-89-6	Iron	2.71	0.10	0.025	mg/L
7440-02-0	Nickel	0.0032	0.0020	0.00050	mg/L
7440-09-7	Potassium	4.22	0.10	0.025	mg/L
7440-62-2	Vanadium	0.00030J	0.0010	0.00025	mg/L

EPA 6020A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	453	50.0	12.5	mg/L
7439-95-4	Magnesium	220	10.0	2.50	mg/L
7439-96-5	Manganese	1.90	0.50	0.13	mg/L
7440-23-5	Sodium	195	10.0	2.50	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2510	10.0	10.0	mg/L

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
79-00-5	1,1,2-Trichloroethane	5.03	5.00	0.159	ug/L
71-43-2	Benzene	6.32	5.00	0.111	ug/L
98-82-8	Isopropylbenzene (Cumene)	1.68J	5.00	0.130	ug/L
103-65-1	n-Propylbenzene	1.85J	5.00	0.727	ug/L
135-98-8	sec-Butylbenzene	3.48J	5.00	0.107	ug/L
98-06-6	tert-Butylbenzene	0.896J	5.00	0.087	ug/L

EPA 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000080J	0.00020	0.000070	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011504	**SD08-TEMP 1**	Water	07/31/2014 14:10	08/01/2014 10:30

EPA 6020A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	751	50.0	12.5	mg/L
7440-50-8	Copper	0.054J	0.10	0.025	mg/L
7439-96-5	Manganese	0.48J	0.50	0.13	mg/L
7440-09-7	Potassium	8.52J	10.0	2.50	mg/L

EPA 6020A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	Magnesium	2150	100	25.0	mg/L
7440-23-5	Sodium	8930	100	25.0	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	44100	100	100	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	2.17	2.00	0.500	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011505	**TRIP BLANK**	Water	07/31/2014 00:00	08/01/2014 10:30

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
74-87-3	Chloromethane	0.752J	5.00	0.144	ug/L
75-09-2	Methylene chloride	6.29	5.00	0.149	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011501	**SD08-TEMP 2**	Water	07/31/2014 10:15	08/01/2014 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/04/2014 12:53	ALC	538223

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	**Benzene**	**1.43J**	**5.00**	**0.111**	**ug/L**
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	**Chloroform**	**0.514J**	**5.00**	**0.155**	**ug/L**
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011501	**SD08-TEMP 2**	Water	07/31/2014 10:15	08/01/2014 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/04/2014 12:53	ALC	538223

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.2	ug/L	94	84 - 120
1868-53-7	Dibromofluoromethane	50	46.7	ug/L	93	87 - 116
2037-26-5	Toluene d8	50	49.3	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	47.1	ug/L	94	76 - 127

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/03/2014 07:20	538191	EPA 7470A	1	08/04/2014 17:37	BAM	538279

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.000087J**	**0.00020**	**0.000070**	**mg/L**

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	100	08/15/2014 11:42	PJS	539042

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	**Antimony**	**0.068J**	**0.20**	**0.050**	**mg/L**
7440-38-2	Arsenic	0.025U	0.10	0.025	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.025U	0.10	0.025	mg/L
7440-43-9	Cadmium	0.025U	0.10	0.025	mg/L
7440-70-2	**Calcium**	**660**	**50.0**	**12.5**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011501	**SD08-TEMP 2**	Water	07/31/2014 10:15	08/01/2014 10:30

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	100	08/15/2014 11:42	PJS	539042

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.072J**	**0.10**	**0.025**	**mg/L**
7439-89-6	Iron	2.50U	10.0	2.50	mg/L
7439-92-1	Lead	0.025U	0.10	0.025	mg/L
7439-96-5	**Manganese**	**0.61**	**0.50**	**0.13**	**mg/L**
7440-02-0	Nickel	0.050U	0.20	0.050	mg/L
7440-09-7	**Potassium**	**31.5**	**10.0**	**2.50**	**mg/L**
7782-49-2	Selenium	0.025U	0.10	0.025	mg/L
7440-28-0	Thallium	0.025U	0.10	0.025	mg/L
7440-62-2	Vanadium	0.025U	0.10	0.025	mg/L
7440-66-6	Zinc	0.50U	2.00	0.50	mg/L

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	1000	08/15/2014 11:56	PJS	539042

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	**Magnesium**	**2320**	**100**	**25.0**	**mg/L**
7440-23-5	**Sodium**	**8360**	**100**	**25.0**	**mg/L**

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	100	08/18/2014 07:47	PJS	539249

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.025U	0.10	0.025	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	08/04/2014 16:40	AJE	538246

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**50800**	**100**	**100**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	08/01/2014 16:12	DMT	538140

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**23.8**	**20.0**	**5.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011502	**MW-09-01**	Water	07/31/2014 11:40	08/01/2014 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/04/2014 13:16	ALC	538223

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	**Chloroform**	**0.562J**	**5.00**	**0.155**	**ug/L**
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011502	**MW-09-01**	Water	07/31/2014 11:40	08/01/2014 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/04/2014 13:16	ALC	538223

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.9	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	47.6	ug/L	95	87 - 116
2037-26-5	Toluene d8	50	47.2	ug/L	94	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.4	ug/L	97	76 - 127

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/03/2014 07:20	538191	EPA 7470A	1	08/04/2014 17:23	BAM	538279

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00011J**	**0.00020**	**0.000070**	**mg/L**

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	100	08/15/2014 13:38	PJS	539042

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.050U	0.20	0.050	mg/L
7440-38-2	Arsenic	0.025U	0.10	0.025	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.025U	0.10	0.025	mg/L
7440-43-9	Cadmium	0.025U	0.10	0.025	mg/L
7440-70-2	**Calcium**	**591**	**50.0**	**12.5**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011502	**MW-09-01**	Water	07/31/2014 11:40	08/01/2014 10:30

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	100	08/15/2014 13:38	PJS	539042

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.055J**	**0.10**	**0.025**	**mg/L**
7439-89-6	Iron	2.50U	10.0	2.50	mg/L
7439-92-1	Lead	0.025U	0.10	0.025	mg/L
7439-96-5	Manganese	0.13U	0.50	0.13	mg/L
7440-02-0	Nickel	0.050U	0.20	0.050	mg/L
7440-09-7	**Potassium**	**9.66J**	**10.0**	**2.50**	**mg/L**
7782-49-2	Selenium	0.025U	0.10	0.025	mg/L
7440-28-0	Thallium	0.025U	0.10	0.025	mg/L
7440-62-2	**Vanadium**	**0.036J**	**0.10**	**0.025**	**mg/L**
7440-66-6	Zinc	0.50U	2.00	0.50	mg/L

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	1000	08/15/2014 13:46	PJS	539042

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	**Magnesium**	**1250**	**100**	**25.0**	**mg/L**
7440-23-5	**Sodium**	**5340**	**100**	**25.0**	**mg/L**

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	100	08/18/2014 09:20	PJS	539249

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.025U	0.10	0.025	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	08/04/2014 16:40	AJE	538246

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**29400**	**100**	**100**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	08/01/2014 17:04	DMT	538140

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**18.8J**	**20.0**	**5.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011503	**SD08-MW10**	Water	07/31/2014 12:45	08/01/2014 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/04/2014 13:39	ALC	538223

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	**1,1,2-Trichloroethane**	**5.03**	**5.00**	**0.159**	**ug/L**
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	**Benzene**	**6.32**	**5.00**	**0.111**	**ug/L**
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	**Isopropylbenzene (Cumene)**	**1.68J**	**5.00**	**0.130**	**ug/L**
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011503	**SD08-MW10**	Water	07/31/2014 12:45	08/01/2014 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/04/2014 13:39	ALC	538223

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	**n-Propylbenzene**	**1.85J**	**5.00**	**0.727**	**ug/L**
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	**sec-Butylbenzene**	**3.48J**	**5.00**	**0.107**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	**tert-Butylbenzene**	**0.896J**	**5.00**	**0.087**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.2	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	48.2	ug/L	96	87 - 116
2037-26-5	Toluene d8	50	46.6	ug/L	93	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	45.5	ug/L	91	76 - 127

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/03/2014 07:20	538191	EPA 7470A	1	08/04/2014 17:39	BAM	538279

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.000080J**	**0.00020**	**0.000070**	**mg/L**

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	100	08/15/2014 14:03	PJS	539042

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**453**	**50.0**	**12.5**	**mg/L**
7439-95-4	**Magnesium**	**220**	**10.0**	**2.50**	**mg/L**
7439-96-5	**Manganese**	**1.90**	**0.50**	**0.13**	**mg/L**
7440-23-5	**Sodium**	**195**	**10.0**	**2.50**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011503	**SD08-MW10**	Water	07/31/2014 12:45	08/01/2014 10:30

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	1	08/15/2014 14:15	PJS	539042

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.0081J**	**0.020**	**0.0050**	**mg/L**
7440-36-0	Antimony	0.00050U	0.0020	0.00050	mg/L
7440-38-2	**Arsenic**	**0.036**	**0.0010**	**0.00025**	**mg/L**
7440-39-3	**Barium**	**0.025**	**0.0010**	**0.00025**	**mg/L**
7440-41-7	Beryllium	0.00025U	0.0010	0.00025	mg/L
7440-43-9	Cadmium	0.00025U	0.0010	0.00025	mg/L
7440-47-3	Chromium	0.00025U	0.0010	0.00025	mg/L
7440-48-4	**Cobalt**	**0.0035**	**0.0010**	**0.00025**	**mg/L**
7440-50-8	Copper	0.00025U	0.0010	0.00025	mg/L
7439-89-6	**Iron**	**2.71**	**0.10**	**0.025**	**mg/L**
7440-02-0	**Nickel**	**0.0032**	**0.0020**	**0.00050**	**mg/L**
7440-09-7	**Potassium**	**4.22**	**0.10**	**0.025**	**mg/L**
7782-49-2	Selenium	0.00025U	0.0010	0.00025	mg/L
7440-28-0	Thallium	0.00025U	0.0010	0.00025	mg/L
7440-62-2	**Vanadium**	**0.00030J**	**0.0010**	**0.00025**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	5	08/21/2014 19:48	BAM	539512

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0013U	0.0050	0.0013	mg/L
7440-22-4	Silver	0.0013U	0.0050	0.0013	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/04/2014 16:40	AJE	538246

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2510**	**10.0**	**10.0**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	08/01/2014 17:21	DMT	538140

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	5.00U	20.0	5.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011504	**SD08-TEMP 1**	Water	07/31/2014 14:10	08/01/2014 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/04/2014 14:02	ALC	538223

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011504	**SD08-TEMP 1**	Water	07/31/2014 14:10	08/01/2014 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/04/2014 14:02	ALC	538223

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.7	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	48.7	ug/L	97	87 - 116
2037-26-5	Toluene d8	50	46.7	ug/L	93	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.2	ug/L	96	76 - 127

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/03/2014 07:20	538191	EPA 7470A	1	08/04/2014 17:41	BAM	538279

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	100	08/15/2014 14:32	PJS	539042

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.050U	0.20	0.050	mg/L
7440-38-2	Arsenic	0.025U	0.10	0.025	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.025U	0.10	0.025	mg/L
7440-43-9	Cadmium	0.025U	0.10	0.025	mg/L
7440-70-2	**Calcium**	**751**	**50.0**	**12.5**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011504	**SD08-TEMP 1**	Water	07/31/2014 14:10	08/01/2014 10:30

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	100	08/15/2014 14:32	PJS	539042

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.054J**	**0.10**	**0.025**	**mg/L**
7439-89-6	Iron	2.50U	10.0	2.50	mg/L
7439-92-1	Lead	0.025U	0.10	0.025	mg/L
7439-96-5	**Manganese**	**0.48J**	**0.50**	**0.13**	**mg/L**
7440-02-0	Nickel	0.050U	0.20	0.050	mg/L
7440-09-7	**Potassium**	**8.52J**	**10.0**	**2.50**	**mg/L**
7782-49-2	Selenium	0.025U	0.10	0.025	mg/L
7440-28-0	Thallium	0.025U	0.10	0.025	mg/L
7440-62-2	Vanadium	0.025U	0.10	0.025	mg/L
7440-66-6	Zinc	0.50U	2.00	0.50	mg/L

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	1000	08/15/2014 14:40	PJS	539042

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	**Magnesium**	**2150**	**100**	**25.0**	**mg/L**
7440-23-5	**Sodium**	**8930**	**100**	**25.0**	**mg/L**

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/01/2014 15:05	538111	EPA 3005A Dissolved	100	08/18/2014 09:37	PJS	539249

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.025U	0.10	0.025	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	08/04/2014 16:40	AJE	538246

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**44100**	**100**	**100**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	08/01/2014 17:39	DMT	538140

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**2.17**	**2.00**	**0.500**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011505	**TRIP BLANK**	Water	07/31/2014 00:00	08/01/2014 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/04/2014 14:25	ALC	538223

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	**Chloromethane**	**0.752J**	**5.00**	**0.144**	**ug/L**
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	**Methylene chloride**	**6.29**	**5.00**	**0.149**	**ug/L**
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21408011505	**TRIP BLANK**	Water	07/31/2014 00:00	08/01/2014 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/04/2014 14:25	ALC	538223

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.3	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	48.1	ug/L	96	87 - 116
2037-26-5	Toluene d8	50	48.4	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.7	ug/L	99	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch	538223	**Client ID**	MB538223			LCS538223			LCSD538223		
Prep Batch	N/A	**GCAL ID**	1344715			1344716			1344717		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	08/04/2014 10:56			08/04/2014 08:56			08/04/2014 09:19		
		Matrix	Water			Water			Water		
EPA 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.193U	0.193	50.0	44.9	90	59 - 134	51.5	103	14	30
74-97-5	Bromochloromethane	0.127U	0.127	50.0	54.4	109	78 - 112	53.1	106	2	30
75-27-4	Bromodichloromethane	0.083U	0.083	50.0	53.5	107	76 - 116	54.0	108	1	30
75-25-2	Bromoform	0.215U	0.215	50.0	51.3	103	68 - 128	50.2	100	2	30
74-83-9	Bromomethane	0.427U	0.427	50.0	47.2	94	55 - 151	45.7	91	3	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	51.0	102	67 - 147	52.1	104	2	30
56-23-5	Carbon tetrachloride	0.248U	0.248	50.0	50.6	101	74 - 139	50.9	102	1	30
75-00-3	Chloroethane	0.235U	0.235	50.0	46.8	94	54 - 166	51.5	103	10	30
136777-61-2	m,p-Xylene	0.123U	0.123	100	112	112	83 - 121	105	105	6	30
67-66-3	Chloroform	0.155U	0.155	50.0	56.7	113	85 - 123	56.0	112	1	30
74-87-3	Chloromethane	0.144U	0.144	50.0	43.7	87	55 - 173	47.1	94	7	30
124-48-1	Dibromochloromethane	0.054U	0.054	50.0	52.5	105	74 - 116	50.0	100	5	30
74-95-3	Dibromomethane	0.211U	0.211	50.0	55.2	110	81 - 116	58.5	**117***	6	30
75-71-8	Dichlorodifluoromethane	0.145U	0.145	50.0	48.0	96	34 - 158	45.5	91	5	30
75-34-3	1,1-Dichloroethane	0.171U	0.171	50.0	53.3	107	82 - 127	54.2	108	2	30
107-06-2	1,2-Dichloroethane	0.116U	0.116	50.0	50.3	101	76 - 122	50.6	101	1	30
156-59-2	cis-1,2-Dichloroethene	0.103U	0.103	50.0	52.1	104	81 - 114	55.5	111	6	30
156-60-5	trans-1,2-Dichloroethene	0.077U	0.077	50.0	52.0	104	82 - 126	51.5	103	1	30
75-09-2	Methylene chloride	0.149U	0.149	50.0	47.6	95	69 - 125	47.6	95	0	30
78-87-5	1,2-Dichloropropane	0.150U	0.150	50.0	55.6	111	81 - 120	59.6	119	7	30
10061-01-5	cis-1,3-Dichloropropene	0.124U	0.124	50.0	56.5	113	83 - 119	56.2	112	1	30
10061-02-6	trans-1,3-Dichloropropene	0.128U	0.128	50.0	49.5	99	87 - 123	49.1	98	1	30
100-41-4	Ethylbenzene	0.109U	0.109	50.0	53.9	108	87 - 118	51.9	104	4	30
591-78-6	2-Hexanone	0.122U	0.122	50.0	49.8	100	58 - 125	52.8	106	6	30
98-82-8	Isopropylbenzene (Cumene)	0.130U	0.130	50.0	55.2	110	87 - 131	50.0	100	10	30
78-93-3	2-Butanone	0.142U	0.142	50.0	52.1	104	61 - 127	57.7	115	10	30
74-88-4	Methyl iodide	0.084U	0.084	50.0	38.9	78	72 - 125	39.4	79	1	30
108-10-1	4-Methyl-2-pentanone	0.120U	0.120	50.0	52.4	105	62 - 125	57.2	114	9	30
103-65-1	n-Propylbenzene	0.727U	0.727	50.0	52.2	104	86 - 125	50.8	102	3	30
100-42-5	Styrene	0.089U	0.089	50.0	55.8	112	78 - 118	53.6	107	4	30
127-18-4	Tetrachloroethene	0.193U	0.193	50.0	52.7	105	80 - 131	49.9	100	5	30
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	0.120	50.0	51.4	103	81 - 119	48.9	98	5	30
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	0.109	50.0	51.4	103	71 - 120	56.7	113	10	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	538223	**Client ID**	MB538223			LCS538223			LCSD538223		
Prep Batch	N/A	**GCAL ID**	1344715			1344716			1344717		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	08/04/2014 10:56			08/04/2014 08:56			08/04/2014 09:19		
		Matrix	Water			Water			Water		
EPA 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	0.105U	0.105	50.0	53.8	108	68 - 123	53.8	108	0	30
71-55-6	1,1,1-Trichloroethane	0.123U	0.123	50.0	52.9	106	79 - 133	50.2	100	5	30
79-00-5	1,1,2-Trichloroethane	0.159U	0.159	50.0	54.8	110	80 - 114	51.5	103	6	30
75-69-4	Trichlorofluoromethane	0.157U	0.157	50.0	49.4	99	66 - 156	46.8	94	5	30
96-18-4	1,2,3-Trichloropropane	0.065U	0.065	50.0	48.4	97	77 - 115	52.8	106	9	30
95-63-6	1,2,4-Trimethylbenzene	0.084U	0.084	50.0	51.5	103	82 - 120	50.2	100	3	30
108-67-8	1,3,5-Trimethylbenzene	0.066U	0.066	50.0	50.1	100	83 - 123	50.9	102	2	30
75-01-4	Vinyl chloride	0.127U	0.127	50.0	46.8	94	57 - 153	51.1	102	9	30
95-47-6	o-Xylene	0.055U	0.055	50.0	53.2	106	83 - 121	50.4	101	5	30
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	0.194	50.0	53.5	107	61 - 118	57.5	115	7	30
106-93-4	1,2-Dibromoethane	0.102U	0.102	50.0	53.0	106	80 - 115	52.7	105	1	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078	50.0	49.2	98	75 - 116	56.7	113	14	30
540-59-0	1,2-Dichloroethene(Total)	0.180U	0.180	100	104	104	74 - 128	107	107	3	30
99-87-6	4-Isopropyltoluene	0.070U	0.070	50.0	52.3	105	83 - 125	48.0	96	9	30
1330-20-7	Xylene (total)	0.179U	0.179	150	165	110	74 - 127	155	103	6	30
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	0.264	50.0	51.4	103	51 - 137	54.7	109	6	30
594-20-7	2,2-Dichloropropane	0.170U	0.170	50.0	47.9	96	77 - 138	49.2	98	3	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158	50.0	53.0	106	74 - 139	53.5	107	1	30
563-58-6	1,1-Dichloropropene	0.052U	0.052	50.0	52.8	106	87 - 127	52.7	105	0	30
142-28-9	1,3-Dichloropropane	0.059U	0.059	50.0	53.9	108	81 - 113	52.1	104	3	30
108-86-1	Bromobenzene	0.145U	0.145	50.0	46.9	94	83 - 115	48.7	97	4	30
95-49-8	2-Chlorotoluene	0.080U	0.080	50.0	50.3	101	81 - 121	51.9	104	3	30
106-43-4	4-Chlorotoluene	0.124U	0.124	50.0	51.9	104	84 - 120	51.5	103	1	30
98-06-6	tert-Butylbenzene	0.087U	0.087	50.0	49.2	98	83 - 126	49.1	98	0	30
135-98-8	sec-Butylbenzene	0.107U	0.107	50.0	53.0	106	86 - 127	52.4	105	1	30
541-73-1	1,3-Dichlorobenzene	0.138U	0.138	50.0	51.6	103	86 - 115	51.5	103	0	30
106-46-7	1,4-Dichlorobenzene	0.083U	0.083	50.0	50.7	101	87 - 113	50.2	100	1	30
104-51-8	n-Butylbenzene	0.123U	0.123	50.0	56.5	113	84 - 124	51.8	104	9	30
95-50-1	1,2-Dichlorobenzene	0.135U	0.135	50.0	51.9	104	85 - 115	52.9	106	2	30
87-68-3	Hexachlorobutadiene	0.265U	0.265	50.0	54.9	110	71 - 133	47.3	95	15	30
91-20-3	Naphthalene	0.176U	0.176	50.0	52.9	106	59 - 125	55.6	111	5	35
75-35-4	1,1-Dichloroethene	0.208U	0.208	50.0	52.6	105	75 - 133	54.3	109	3	20
71-43-2	Benzene	0.111U	0.111	50.0	52.5	105	83 - 124	53.3	107	2	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	538223	**Client ID**	MB538223	LCS538223	LCSD538223
Prep Batch	N/A	**GCAL ID**	1344715	1344716	1344717
		Sample Type	Method Blank	LCS	LCSD
		Analytical Date	08/04/2014 10:56	08/04/2014 08:56	08/04/2014 09:19
		Matrix	Water	Water	Water

EPA 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
79-01-6	Trichloroethene	0.161U	0.161	50.0	51.5	103	85 - 124	52.0	104	1	20
108-88-3	Toluene	0.122U	0.122	50.0	55.1	110	86 - 116	52.7	105	4	20
108-90-7	Chlorobenzene	0.083U	0.083	50.0	51.3	103	87 - 115	49.6	99	3	20
Surrogate											
460-00-4	4-Bromofluorobenzene	50.5	101	50	53.7	107	84 - 120	52.8	106		
1868-53-7	Dibromofluoromethane	49.5	99	50	49.7	99	87 - 116	52.2	104		
2037-26-5	Toluene d8	49.2	98	50	49.9	100	86 - 112	48.9	98		
17060-07-0	1,2-Dichloroethane-d4	47.9	96	50	45.8	92	76 - 127	50.1	100		

Inorganics Quality Control Summary

Analytical Batch	538279	**Client ID**	MB538191			LCS538191		
Prep Batch	538191	**GCAL ID**	1344624			1344625		
Prep Method	EPA 7470A	**Sample Type**	Method Blank			LCS		
		Prep Date	08/03/2014 07:20			08/03/2014 07:20		
		Analytical Date	08/04/2014 17:19			08/04/2014 17:21		
		Matrix	Water			Water		
EPA 7470A			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.000087J	0.000070	0.0050	0.0045	90	88 - 111

Analytical Batch	538279	**Client ID**	MW-09-01			1344257MS			1344257MSD			
Prep Batch	538191	**GCAL ID**	21408011502			1344626			1344627			
Prep Method	EPA 7470A	**Sample Type**	SAMPLE			MS			MSD			
		Prep Date	08/03/2014 07:20			08/03/2014 07:20			08/03/2014 07:20			
		Analytical Date	08/04/2014 17:23			08/04/2014 17:25			08/04/2014 17:26			
		Matrix	Water			Water			Water			
EPA 7470A			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.00011	0.000070	0.0050	0.0032	**63***	80 - 120	0.0036	**70***	10	10

Inorganics Quality Control Summary

Analytical Batch	539042	**Client ID**	MB538111	LCS538111
Prep Batch	538111	**GCAL ID**	1344290	1344291
Prep Method	EPA 3005A	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	08/01/2014 15:05	08/01/2014 15:05
		Analytical Date	08/15/2014 11:25	08/15/2014 11:33
		Matrix	Water	Water

EPA 6020A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.0050U	0.0050	1.00	1.07	107	80 - 120
7440-36-0	Antimony	0.00050U	0.00050	0.10	0.11	106	80 - 120
7440-38-2	Arsenic	0.00025U	0.00025	0.050	0.052	103	80 - 120
7440-39-3	Barium	0.00025U	0.00025	0.050	0.053	105	80 - 120
7440-41-7	Beryllium	0.00025U	0.00025	0.050	0.050	101	80 - 120
7440-43-9	Cadmium	0.00025U	0.00025	0.050	0.052	104	80 - 120
7440-70-2	Calcium	0.13U	0.13	25.0	26.2	105	80 - 120
7440-47-3	Chromium	0.00025U	0.00025	0.050	0.051	101	80 - 120
7440-48-4	Cobalt	0.00025U	0.00025	0.050	0.052	103	80 - 120
7440-50-8	Copper	0.00025U	0.00025	0.050	0.050	101	80 - 120
7439-89-6	Iron	0.025U	0.025	5.00	4.93	99	80 - 120
7439-92-1	Lead	0.00025U	0.00025	0.050	0.047	94	80 - 120
7439-95-4	Magnesium	0.025U	0.025	5.00	5.26	105	80 - 120
7439-96-5	Manganese	0.0013U	0.0013	0.050	0.049	98	80 - 120
7440-02-0	Nickel	0.00050U	0.00050	0.10	0.10	103	80 - 120
7440-09-7	Potassium	0.025U	0.025	5.00	5.31	106	80 - 120
7782-49-2	Selenium	0.00025U	0.00025	0.010	0.011	106	80 - 120
7440-22-4	Silver	0.00025U	0.00025	0.050	0.049	98	80 - 120
7440-23-5	Sodium	0.025U	0.025	5.00	5.04	101	80 - 120
7440-28-0	Thallium	0.00025U	0.00025	0.050	0.046	93	80 - 120
7440-62-2	Vanadium	0.00025U	0.00025	0.050	0.051	102	80 - 120
7440-66-6	Zinc	0.0050U	0.0050	1.00	1.05	105	80 - 120

Inorganics Quality Control Summary

Analytical Batch	539042	**Client ID**	SD08-TEMP 2	1344256MS	1344256MSD
Prep Batch	538111	**GCAL ID**	21408011501	1344292	1344293
Prep Method	EPA 3005A	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	08/01/2014 15:05	08/01/2014 15:05	08/01/2014 15:05
		Analytical Date	08/15/2014 11:42	08/15/2014 12:04	08/15/2014 12:31
		Matrix	Water	Water	Water

EPA 6020A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.50	1.00	0.95	95	80 - 120	0.97	97	1	20
7440-36-0	Antimony	0.068	0.050	0.10	0.092	**24***	80 - 120	0.082	**15***	10	20
7440-38-2	Arsenic	0.0	0.025	0.050	0.048	97	80 - 120	0.047	94	3	20
7440-39-3	Barium	0.0	0.025	0.050	0.061	**122***	80 - 120	0.054	109	11	20
7440-41-7	Beryllium	0.0	0.025	0.050	0.039	**77***	80 - 120	0.036	**72***	7	20
7440-43-9	Cadmium	0.0	0.025	0.050	0.042	83	80 - 120	0.041	82	2	20
7440-70-2	Calcium	660	12.5	25.0	691	**122***	80 - 120	673	**53***	3	20
7440-47-3	Chromium	0.0	0.025	0.050	0.041	82	80 - 120	0.040	81	2	20
7440-48-4	Cobalt	0.0	0.025	0.050	0.047	93	80 - 120	0.045	91	3	20
7440-50-8	Copper	0.072	0.025	0.050	0.11	81	80 - 120	0.10	**65***	7	20
7439-89-6	Iron	0.0	2.50	5.00	3.99	80	80 - 120	3.90	**78***	2	20
7439-92-1	Lead	0.0	0.025	0.050	0.039	**78***	80 - 120	0.038	**77***	2	20
7439-96-5	Manganese	0.61	0.13	0.050	0.66	88	80 - 120	0.64	**48***	3	20
7440-02-0	Nickel	0.0	0.050	0.10	0.092	92	80 - 120	0.090	90	2	20
7440-09-7	Potassium	31.5	2.50	5.00	35.2	**73***	80 - 120	34.4	**56***	2	20
7782-49-2	Selenium	0.0	0.025	0.010	0.028	**279***	80 - 120	0.026	**265***	5	20
7440-28-0	Thallium	0.0	0.025	0.050	0.033	**65***	80 - 120	0.031	**62***	5	20
7440-62-2	Vanadium	0.0	0.025	0.050	0.066	**131***	80 - 120	0.066	**132***	1	20
7440-66-6	Zinc	0.0	0.50	1.00	0.89	89	80 - 120	0.82	82	8	20

Analytical Batch	539042	**Client ID**	SD08-TEMP 2	1344256MS	1344256MSD
Prep Batch	538111	**GCAL ID**	21408011501	1344292	1344293
Prep Method	EPA 3005A	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	08/01/2014 15:05	08/01/2014 15:05	08/01/2014 15:05
		Analytical Date	08/15/2014 11:56	08/15/2014 12:14	08/15/2014 12:39
		Matrix	Water	Water	Water

EPA 6020A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-95-4	Magnesium	2320	25.0	5.00	2480	**3260***	80 - 120	2560	**4830***	3	20
7440-23-5	Sodium	8360	25.0	5.00	8920	**11300***	80 - 120	9100	**14900***	2	20

Inorganics Quality Control Summary

Analytical Batch	539249	**Client ID**	SD08-TEMP 2			1344256MS			1344256MSD		
Prep Batch	538111	**GCAL ID**	21408011501			1344292			1344293		
Prep Method	EPA 3005A	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	08/01/2014 15:05			08/01/2014 15:05			08/01/2014 15:05		
		Analytical Date	08/18/2014 07:47			08/18/2014 08:04			08/18/2014 08:46		
		Matrix	Water			Water			Water		
EPA 6020A Dissolved		**Units**		mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-22-4	Silver		0.0	0.025	0.050	0.034	**68***	80 - 120	0.035	**70***	2	20

General Chemistry Quality Control Summary

Analytical Batch 538246	**Client ID**	MB538246			LCS538246		
Prep Batch N/A	**GCAL ID**	1344819			1344820		
	Sample Type	Method Blank			LCS		
	Analytical Date	08/04/2014 16:40			08/04/2014 16:40		
	Matrix	Water			Water		
SM 2540 C-2011		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1020	102	90 - 110

Analytical Batch 538246	**Client ID**	4		1344303DUP		
Prep Batch N/A	**GCAL ID**	21408012301		1344821		
	Sample Type	SAMPLE		DUP		
	Analytical Date	08/04/2014 16:40		08/04/2014 16:40		
	Matrix	Water		Water		
SM 2540 C-2011		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	16000	10.0	15600	3	5.4

Analytical Batch 538246	**Client ID**	ME-20		1344706DUP		
Prep Batch N/A	**GCAL ID**	21408040310		1344822		
	Sample Type	SAMPLE		DUP		
	Analytical Date	08/04/2014 16:40		08/04/2014 16:40		
	Matrix	Water		Water		
SM 2540 C-2011		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	504	10.0	511	1	5.4

General Chemistry Quality Control Summary

Analytical Batch 538140	**Client ID**	MB538140			LCS538140		
Prep Batch N/A	**GCAL ID**	1344402			1344403		
	Sample Type	Method Blank			LCS		
	Analytical Date	08/01/2014 15:54			08/01/2014 15:37		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.050U	0.050	2.50	2.40	96	80 - 120

Analytical Batch 538140	**Client ID**	SD08-TEMP 2			1344256MS			1344256MSD				
Prep Batch N/A	**GCAL ID**	21408011501			1344404			1344405				
	Sample Type	SAMPLE			MS			MSD				
	Analytical Date	08/01/2014 16:12			08/01/2014 16:29			08/01/2014 16:47				
	Matrix	Water			Water			Water				
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	23.8	5.00	250	273	100	80 - 120	274	100	0	15

NATIONVIEW

NV Project No: 10-0004

COC Number(1): 07312014

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Groundwater Sampling

Client Name: USACE Omaha District

Collected by: Tony Lucero

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)	Nitrate (300/9056)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)									Quality Assurance Samples (6)				
SD08-Temp 2	SD08-Temp 2	07312014	1015		N	1	WG	5	[x]	[x]	[x]	[x]	[x]								1
MW-09-01	MW-09-01	07312014	1140	-	N	1	WG	5	[x]	[x]	[x]	[x]	[x]								2
SD08-MW10	SD08-MW10	07312014	1245	-	N	1	WG	5	[x]	[x]	[x]	[x]	[x]								3
SD08-Temp 1	SD08-Temp 1	07312014	1410	-	N	1	WG	5	[x]	[x]	[x]	[x]	[x]								4
Trip Blank	FIELD QC	07312014		-	TB		AQ	5	[x]												5

Client ID: 4771 - NationView LLC

SDG: 214080115

Due Date: 08/13/14

COMMENTS: Dissolved TAL Metals filtered in the field.

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

214080115

SAMPLE DELIVERY GROUP 214080115	
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile Number 204817	**Received By** Saucier, Charlotte M.
Line Item(s) 3 - SD-08	**Receive Date(s)** 08/01/14

CHECKLIST	YES	NO	NA
Were all samples received using proper thermal preservation?	✓		
When used, were all custody seals intact?	✓		
Were all samples received in proper containers?	✓		
Were all samples received using proper chemical preservation?	✓		
Was preservative added to any container at the lab?		✓	
Were all containers received in good condition?	✓		
Were all VOA vials received with no head space?	✓		
Do all sample labels match the Chain of Custody?	✓		
Did the Chain of Custody list the sampling technician?	✓		
Was the COC maintained by all signatures, dates and time of receipt included?	✓		

COOLERS

Airbill	Thermometer ID: E24	Temp(°C)
7707 8702 7084		3.0

DISCREPANCIES

None

LAB PRESERVATIONS

None

Attachment F

Data Validation Reports

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Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on July 29, 2014. Two soil samples were taken from site SD08 for source delineation. All analyses were performed by Gulf Coast Analytical Laboratories, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Lab Package	Collection Date	Analyses
SD08-Temp 1	Soil	214073020	7/29/14	VOCs (SW8260B), and TAL Metals (SW6020A/SW7471B)
SD08-Temp 2				

This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008), the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

Methylene chloride was detected in the trip blank. The result in sample SD08-Temp 2 was detected at a concentration <10x the blank concentration and qualified as estimated (J).

A low level detection of n-Hexane was reported in the method blank. Both samples also reported a low level detection and were qualified estimated.

The method blank for metals yielded low level detections of antimony, aluminum, calcium, iron and zinc. The sample results (with the exception of antimony) were all well above 5x the blank concentrations and required no qualification. Antimony was not detected in the two samples and did not require qualification.

Blank spike sample (laboratory control sample-LCS)/surrogates

The LCS and/or LCSD recoveries for ethyl methacrylate and pentachloroethane were reported above QC limits. These compounds were not detected in the associated samples and required no qualification.

All surrogate recoveries were within quality control limits.

Matrix spike/matrix spike duplicates (MS/MSD)

No matrix spike analyses were reported for this lab package (with the exception of mercury). Precision and accuracy were determined by the LCS/LCSD recoveries and relative percent difference calculation.

Project specific quality assurance/quality control

No field duplicate pair was collected with this soil event.

Compound quantitation and reporting limits

Where a dilution was required, due to either matrix interference or to bracket the concentration within the calibration range, elevated reporting limits were reported.

Overall assessment of data

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*/Reason
SD08-Temp 1	n-Hexane	0.640 J
SD08-Temp 2	Methylene Chloride n-Hexane	0.461 J 0.517 J

*in ug/kg

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on July 31, 2014. Four aqueous samples were taken from site SD08 for monitoring. All analyses were performed by Gulf Coast Analytical, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Lab Package	Collection Date	Analyses
MW-09-01	Water	214080115	7/31/14	Volatiles (SW8260B), TAL Metals (Total and Dissolved-SW6020A/7470A), TDS (SM2540C) and Nitrate (E300/SW9056)
SD08-MW10				
SD08-Temp 1				
SD08-Temp 2				

This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008), the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

The trip blank reported detections of methylene chloride and chloromethane. These compounds were not detected in the associated samples and required on qualification.

The mercury method blank yielded a low level detection. The samples with positive results were <5x the blank concentration and qualified estimated (J).

Blank spike sample (laboratory control sample-LCS)/surrogate

The LCS duplicate recovery for dibromomethane was above QC limits. This compound was not detected in any associated sample and required no qualification

Matrix spike/matrix spike duplicates (MS/MSD)

The MS/MSD recoveries for antimony, barium, beryllium, calcium, lead, potassium, selenium, thallium vanadium, magnesium, copper, iron, manganese, silver, sodium and mercury were outside QC limits. Control limits were not applicable for sodium, calcium, potassium and magnesium since the target analyte concentration exceeded the spiked concentration by a factor of four or more. Precision and accuracy were cross reference with the LCS recoveries; which were within control limits. Therefore, no qualification was deemed necessary.

Project specific quality assurance/quality control

No field duplicate was collected with this data package.

Compound quantitation and reporting limits

Where a dilution was required, due to either matrix interference or to quantify the data, elevated reporting limits were reported.

Overall assessment of data

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*/Reason
SD08-Temp 2	Mercury	0.000087 J
MW-09-01	Mercury	0.00011 J
SD08-MW10	Mercury	0.000080 J

* in mg/l

APPENDIX A

HISTORICAL DATA FROM PREVIOUS INVESTIGATIONS

(Provided on Enclosed CD)

Appendix A-1

Portion of *Remedial Investigation (RI) Report, Investigation, Study and Recommendation for 29 Waste Sites, Holloman Air Force Base, NM*

Radian, June 1992

SD-08

RADIAN
CORPORATION

DCN 92-269-004-16-07
RCN 269-004-16-06

(Mailing Address)
P.O. Box 201088
Austin, TX 78720-1088
(Shipping Address)
8501 North Mopac Blvd.
Austin, TX 78759
(512) 454-4797

REMEDIAL INVESTIGATION (RI) REPORT

INVESTIGATION, STUDY AND RECOMMENDATION FOR 29 WASTE SITES HOLLOMAN AIR FORCE BASE, NM

Volume I

DRAFT FINAL

Prepared for:

49 SG/CEV
Holloman Air Force Base, NM

Prepared by:

Radian Corporation
8501 North MoPac Blvd.
P.O. Box 201088
Austin, Texas 78720-1088

Under Contract No. DACW45-89-D-0515 with:

U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

June 1992

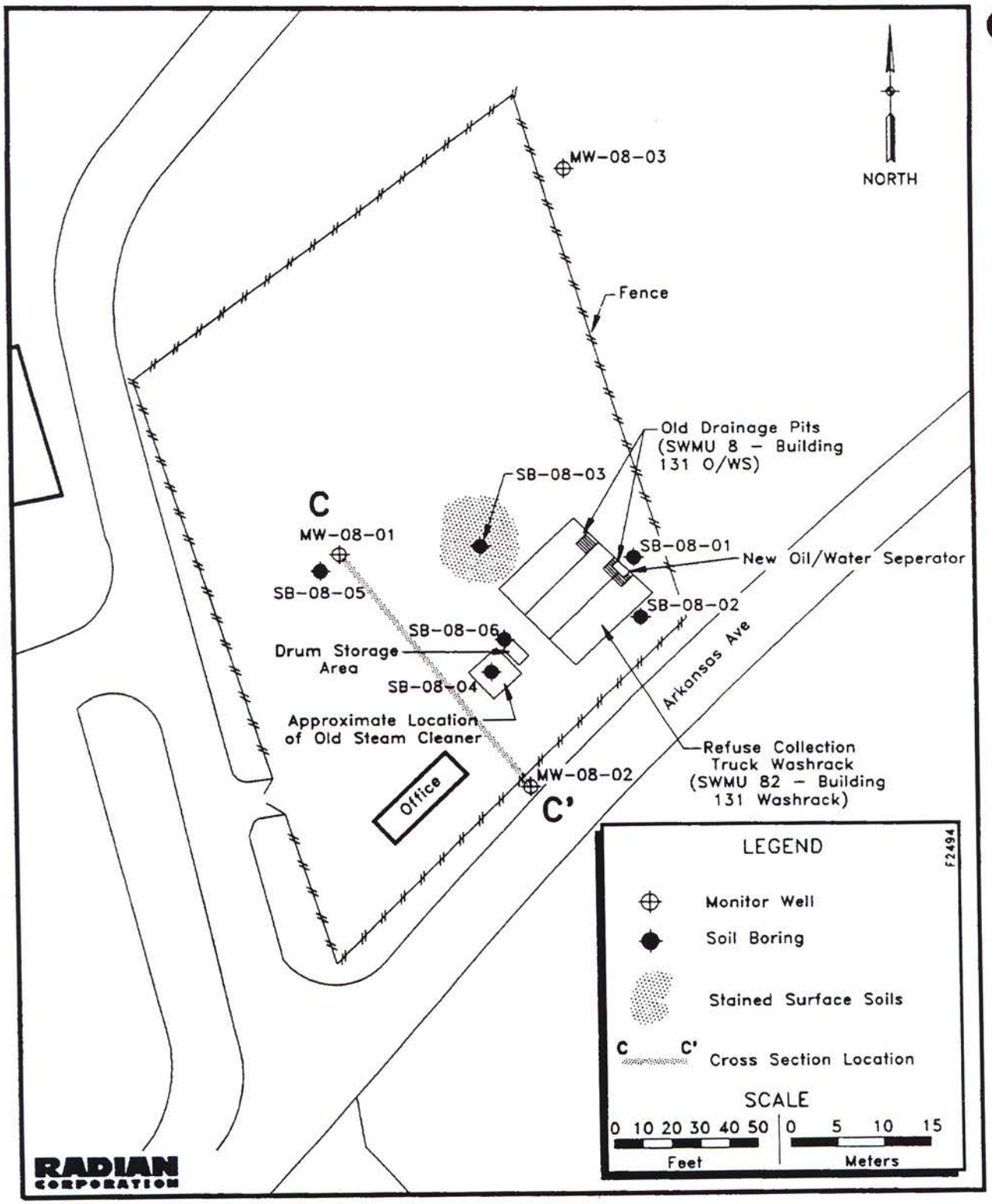


Figure 4-12. Soil Boring, Monitor Well, and Cross Section Locations for Site 8

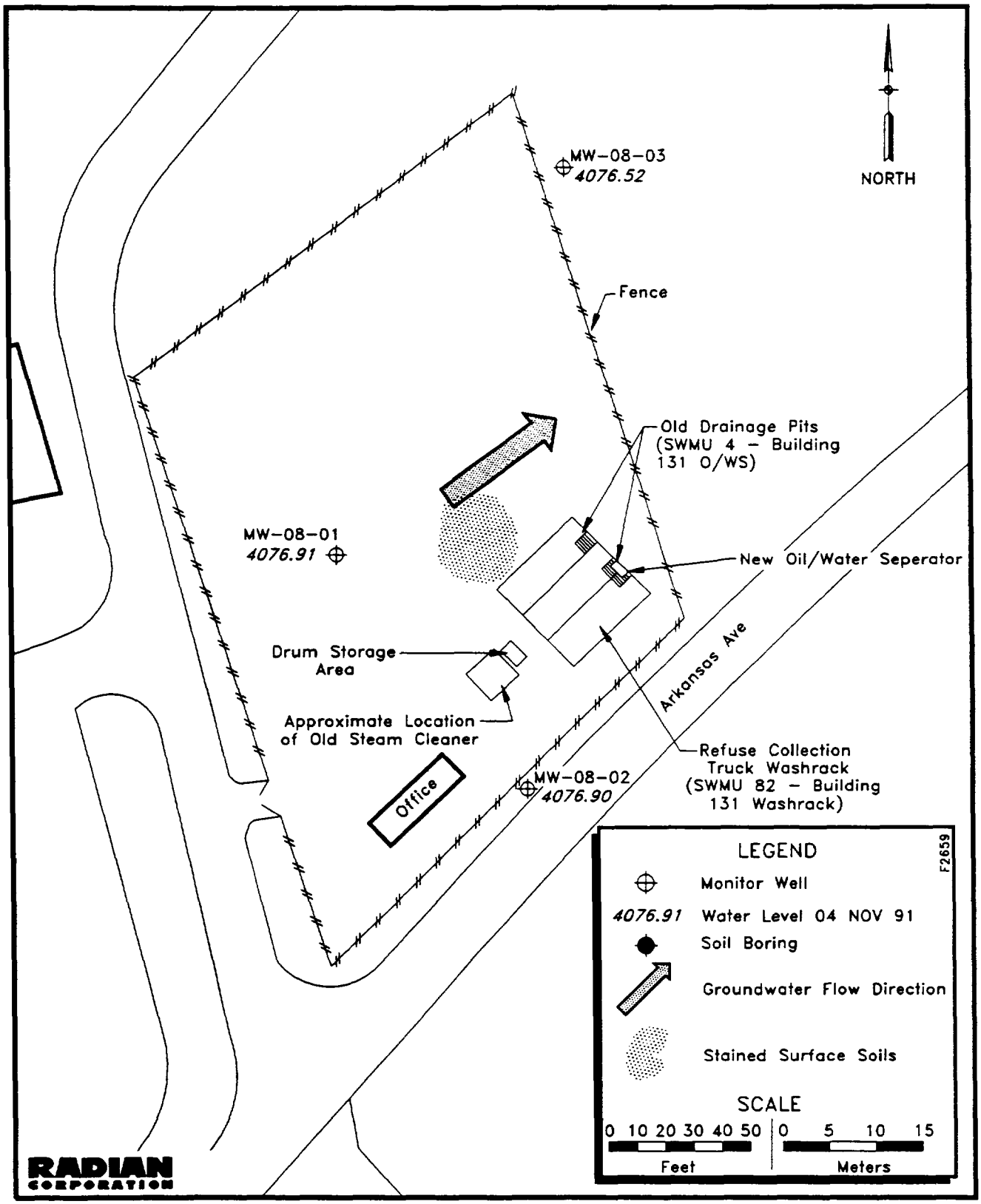


Figure 4-14. Monitor Well Locations and Groundwater Flow Direction for Site 8

Table 4-23

Concentrations of Inorganic Analytes in Site 8 Soil Samples

Location:	SB-08-01				SB-08-02			
Sample ID: Depth:	91JULJ008-001 0 - 2 ft		91JULJ008-002 6 - 8 ft		91JULJ008-003 0 - 2 ft		91JULJ008-004 5 - 7 ft	
Analyses	Result	(DL)	Result	(DL)	Result	(DL)	Result	(DL)
SW6010 - Metals (mg/kg)								
Beryllium	0.39 @	(0.31)	ND	(0.45)	0.36 @	(0.17)	0.43 @	(0.15)
Cadmium	0.92 @	(0.78)	ND	(1.1)	1.8 @	(0.42)	ND	(0.37)
Chromium	13	(1.6)	6.0 @	(2.2)	17	(0.83)	11	(0.74)
Copper	51	(3.1)	ND	(4.5)	37	(1.7)	5.8 @	(1.5)
Nickel	10 @	(3.1)	ND	(4.5)	9.3	(1.7)	6.1 @	(1.5)
Zinc	180	(3.1)	12 @	(4.5)	620	(1.7)	21	(1.5)
SW7060 - Arsenic (mg/kg)	ND	(1.3)	ND	(0.75)	ND	(3.3)	1.6 @	(1.2)
SW7421 - Lead (mg/kg)	50	(2.4)	1.1 @	(0.28)	370	(25)	2.3	(0.23)
SW7471 - Mercury (mg/kg)	0.49	(0.047)	ND	(0.060)	2.2	(0.19)	ND	(0.053)

Table 4-23

(Continued)

Location:	SB-08-03				SB-08-04			
Sample ID: Depth:	91JULH008-005 0 - 2 ft		91JULH008-006 10 - 12 ft		91JULH008-007 0 - 2 ft		91JULH008-008 2 - 4 ft	
Analyses	Result	(DL)	Result	(DL)	Result	(DL)	Result	(DL)
SW6010 - Metals (mg/kg)								
Beryllium	0.34 @	(0.31)	ND	(0.40)	0.44 @	(0.31)	ND	(0.38)
Cadmium	ND	(0.78)	ND	(1.0)	ND	(0.77)	ND	(0.95)
Chromium	8.9	(1.6)	2.2 @	(2.0)	15	(1.5)	8.2 @	(1.9)
Copper	10 @	(3.1)	ND	(4.0)	20	(3.1)	7.0 @	(3.8)
Nickel	6.8 @	(3.1)	ND	(4.0)	14 @	(3.1)	7.1 @	(3.8)
Zinc	48	(3.1)	6.3 @	(4.0)	50	(3.1)	30	(3.8)
SW7060 - Arsenic (mg/kg)	ND	(1.3)	ND	(0.76)	1.8 @	(0.67)	1.5 @	(0.71)
SW7421 - Lead (mg/kg)	19	(0.96)	0.30 @	(0.29)	8.1	(0.50)	18	(1.1)
SW7471 - Mercury (mg/kg)	0.11 @	(0.050)	ND	(0.064)	0.80	(0.050)	ND	(0.053)

Table 4-23

(Continued)

Location:	SB-08-05				SB-08-06			
Sample ID: Depth:	91JULJH008-009 2 - 4 ft		91JULJH008-010 6 - 8 ft		91JULJH008-011 2.5 - 4.5 ft		91JULJH008-012 7.5 - 9.5 ft	
Analyses	Result	(DL)	Result	(DL)	Result	(DL)	Result	(DL)
SW6010 - Metals (mg/kg)								
Beryllium	0.45 @	(0.32)	ND	(0.42)	0.71 @	(0.36)	ND	(0.40)
Cadmium	ND	(0.80)	ND	(1.0)	0.92 @	(0.91)	ND	(1.0)
Chromium	9.7	(1.6)	4.0 @	(2.1)	7.9 @	(1.8)	6.4 @	(2.0)
Copper	3.2 @	(3.2)	ND	(4.2)	5.2 @	(3.6)	4.2 @	(4.0)
Nickel	7.0 @	(3.2)	ND	(4.2)	6.8 @	(3.6)	4.9 @	(4.0)
Zinc	23	(3.2)	9.6 @	(4.2)	16 @	(3.6)	11 @	(4.0)
SW7060 - Arsenic (mg/kg)	2.1 @	(1.2)	1.1 @	(0.75)	3.0 @	(0.68)	1.1 @	(0.78)
SW7421 - Lead (mg/kg)	2.0	(0.23)	0.75 @	(0.28)	1.0 @	(0.26)	1.3 @	(0.29)
SW7471 - Mercury (mg/kg)	ND	(0.053)	ND	(0.060)	ND	(0.056)	ND	(0.060)

NOTE: Table presents only constituents detected in soil at this site.
@ = Measured result is less than five times the detection limit.
ND = Not Detected, at the reported detection limit.

Table 4-24

Concentrations of Organic Analytes in Site 8 Soil Samples

Location:	SB-08-01			
Sample ID: Depth:	91JULH008-001 0 - 2 ft		91JULH008-002 6 - 8 ft	
Analyses:	Result	(DL)	Result	(DL)
EPA 418.1 - TRPH (mg/kg)	87.4	(10.8)	24.6 @	(11.5)
SW8080 - Organochlorine Pesticides and PCBs (μg/kg)				
4,4'-DDD	110 C	(5.6)	ND	(0.60)
4,4'-DDE	410 C	(5.6)	ND	(0.60)
4,4'-DDT	400 C	(11)	ND	(1.2)
Aldrin	ND	(5.6)	0.49 J	(0.60)
Chlordane	950 C	(28)	ND	(3.0)
Endosulfan II	2.5 J	(17)	ND	(1.8)
Endosulfan Sulfate	ND	(28)	1.1 J	(3.0)
Heptachlor	6.3 C@	(5.6)	0.31 J	(0.60)
Heptachlor epoxide	11 C@	(5.6)	0.30 J	(0.60)
delta-BHC	16 C@	(5.6)	1.6 C@	(0.60)
gamma-BHC	ND	(5.6)	0.61 X@	(0.60)
SW8240 - Volatile Organics (μg/kg)				
1,1-Dichloroethene	ND	(110)	ND	(120)
Benzene	ND	(110)	ND	(120)
Chlorobenzene	40 J	(110)	2.8 J	(120)
Ethyl benzene	ND	(110)	ND	(120)
Methylene chloride	150 B@	(110)	51 JB	(120)
Toluene	5.7 J	(110)	ND	(120)

Table 4-24

(Continued)

Location:	SB-08-02			
Sample ID: Depth:	91JULH008-003 0 - 2 ft		91JULH008-004 5 - 7 ft	
Analyses	Result	(DL)	Result	(DL)
EPA 418.1 - TRPH (mg/kg)	1320	(112)	ND	(11.5)
SW8080 - Organochlorine Pesticides and PCBs (μg/kg)				
4,4'-DDD	4000 CD	(56)	1.0 X@	(0.58)
4,4'-DDE	5600 CD	(560)	10.0 C	(0.58)
4,4'-DDT	9300 CD	(1100)	12 C	(1.2)
Aldrin	41 X	(5.6)	0.49 J	(0.58)
Chlordane	4000 CD	(280)	20 C	(2.9)
Endosulfan II	ND	(17)	ND	(1.7)
Endosulfan Sulfate	ND	(28)	0.27 J	(2.9)
Heptachlor	56 C	(5.6)	0.90 C@	(0.58)
Heptachlor epoxide	74 C	(5.6)	4.4 C	(0.58)
delta-BHC	21 C@	(5.6)	1.6 C@	(0.58)
gamma-BHC	ND	(5.6)	ND	(0.58)
SW8240 - Volatile Organics (μg/kg)				
1,1-Dichloroethene	ND	(110)	ND	(120)
Benzene	ND	(110)	ND	(120)
Chlorobenzene	15 J	(110)	ND	(120)
Ethyl benzene	ND	(110)	ND	(120)
Methylene chloride	410 B@	(110)	380 B@	(120)
Toluene	7.4 J	(110)	5.5 J	(120)

Table 4-24

(Continued)

Location:	SB-08-03			
Sample ID: Depth:	91JULH008-005 0 - 2 ft		91JULH008-006 10 - 12 ft	
Analyses	Result	(DL)	Result	(DL)
EPA 418.1 - TRPH (mg/kg)	1740	(112)	ND	(13.61)
SW8080 - Organochlorine Pesticides and PCBs (μg/kg)				
4,4'-DDD	28 C	(5.6)	ND	(0.79)
4,4'-DDE	86 C	(5.6)	ND	(0.79)
4,4'-DDT	26 C@	(11)	ND	(1.6)
Aldrin	ND	(5.6)	0.45 J	(0.79)
Chlordane	230 C	(28)	ND	(3.9)
Endosulfan II	ND	(17)	ND	(2.4)
Endosulfan Sulfate	ND	(28)	0.64 J	(3.9)
Heptachlor	ND	(5.6)	0.87 C@	(0.79)
Heptachlor epoxide	ND	(5.6)	ND	(0.79)
delta-BHC	15 C@	(5.6)	2.1 C@	(0.79)
gamma-BHC	ND	(5.6)	ND	(0.79)
SW8240 - Volatile Organics (μg/kg)				
1,1-Dichloroethene	ND	(110)	23 J	(160)
Benzene	ND	(110)	ND	(160)
Chlorobenzene	5.6 J	(110)	ND	(160)
Ethyl benzene	ND	(110)	ND	(160)
Methylene chloride	150 B@	(110)	470 B@	(160)
Toluene	6.0 J	(110)	7.1 J	(160)

NOTE: Table presents only constituents detected in soil at this site.
C = Presence and quantitation of analyte confirmed by second column analysis.
ND = Not Detected, at the reported detection limit.
J = Detected below the detection limit.
@ = Measured result is less than five times the detection limit.
X = SW8080--Presence of analyte confirmed by second column analysis, but quantitation was not confirmed.
B = Analyte detected in laboratory blank analysis, no blank subtraction performed.
D = Secondary dilution required for this analyte.

Table 4-24

(Continued)

Location:	SB-08-04			
Sample ID: Depth:	91JULH008-007 0 - 2 ft		91JULH008-008 2 - 4 ft	
Analyses	Result	(DL)	Result	(DL)
EPA 418.1 - TRPH (mg/kg)	9950	(550)	35.8 @	(12.0)
SW8080 - Organochlorine Pesticides and PCBs (μg/kg)				
4,4'-DDD	230 C	(5.5)	ND	(0.61)
4,4'-DDE	530 C	(5.5)	3.3 C	(0.61)
4,4'-DDT	500 C	(11)	1.0 J	(1.2)
Aldrin	5.0 J	(5.5)	ND	(0.61)
Chlordane	730 C	(27)	ND	(3.1)
Endosulfan II	ND	(16)	ND	(1.8)
Endosulfan Sulfate	0.68 J	(27)	ND	(3.1)
Heptachlor	12 C@	(5.5)	0.30 J	(0.61)
Heptachlor epoxide	12 C@	(5.5)	ND	(0.61)
delta-BHC	ND	(5.5)	1.8 C@	(0.61)
gamma-BHC	ND	(5.5)	ND	(0.61)
SW8240 - Volatile Organics (μg/kg)				
1,1-Dichloroethene	ND	(110)	ND	(120)
Benzene	2.6 J	(110)	ND	(120)
Chlorobenzene	ND	(110)	ND	(120)
Ethyl benzene	2.6 J	(110)	ND	(120)
Methylene chloride	590 B	(110)	320 B@	(120)
Toluene	ND	(110)	ND	(120)

Table 4-24

(Continued)

Location:	SB-08-05			
Sample ID: Depth:	91JUL11008-009 2 - 4 ft		91JUL11008-010 6 - 8 ft	
Analyses	Result	(DL)	Result	(DL)
EPA 418.1 - TRPH (mg/kg)	191	(13.7)	16.4 @	(13.8)
SW8080 - Organochlorine Pesticides and PCBs (μg/kg)				
4,4'-DDD	0.11 J	(0.61)	ND	(0.68)
4,4'-DDE	1.0 C@	(0.61)	ND	(0.68)
4,4'-DDT	0.34 J	(1.2)	ND	(1.4)
Aldrin	ND	(0.61)	ND	(0.68)
Chlordane	ND	(3.0)	ND	(3.4)
Endosulfan II	ND	(1.8)	ND	(2.1)
Endosulfan Sulfate	ND	(3.0)	ND	(3.4)
Heptachlor	0.39 J	(0.61)	ND	(0.68)
Heptachlor epoxide	ND	(0.61)	ND	(0.68)
delta-BHC	ND	(0.61)	ND B	(0.68)
gamma-BHC	ND	(0.61)	ND	(0.68)
SW8240 - Volatile Organics (μg/kg)				
1,1-Dichloroethene	ND	(120)	ND	(130)
Benzene	ND	(120)	ND	(130)
Chlorobenzene	ND	(120)	ND	(130)
Ethyl benzene	ND	(120)	ND	(130)
Methylene chloride	ND	(120)	ND	(130)
Toluene	ND	(120)	ND	(130)

Table 4-24

(Continued)

Location:	SB-08-06			
Sample ID: Depth:	91JULH008-011 2.5 - 4.5 ft		91JULH008-012 7.5 - 9.5 ft	
Analyses	Result	(DL)	Result	(DL)
EPA 418.1 - TRPH (mg/kg)	ND	(12.3)	ND	(13.6)
SW8080 - Organochlorine Pesticides and PCBs (μg/kg)				
4,4'-DDD	3.2 C	(0.61)	4.0 C	(0.63)
4,4'-DDE	0.055 J	(0.61)	0.76 X@	(0.63)
4,4'-DDT	1.3 C@	(1.2)	2.0 C@	(1.3)
Aldrin	ND	(0.61)	1.7 X@	(0.63)
Chlordane	17 C	(3.1)	32 C	(3.1)
Endosulfan II	ND	(1.8)	ND	(1.9)
Endosulfan Sulfate	2.3 JB	(3.1)	ND	(3.1)
Heptachlor	ND	(0.61)	ND	(0.63)
Heptachlor epoxide	ND	(0.61)	ND	(0.63)
delta-BHC	1.8 C@	(0.61)	1.7 C@	(0.63)
gamma-BHC	ND	(0.61)	ND	(0.63)
SW8240 - Volatile Organics (μg/kg)				
1,1-Dichloroethene	ND	(120)	ND	(130)
Benzene	ND	(120)	ND	(130)
Chlorobenzene	ND	(120)	ND	(130)
Ethyl benzene	ND	(120)	ND	(130)
Methylene chloride	170 B@	(120)	570 B@	(130)
Toluene	ND	(120)	ND	(130)

NOTE: Table presents only constituents detected in soil at this site.
C = Presence and quantitation of analyte confirmed by second column analysis.
ND = Not Detected, at the reported detection limit.
J = Detected below the detection limit.
@ = Measured result is less than five times the detection limit.
X = SW8080–Presence of analyte confirmed by second column analysis, but quantitation was not confirmed.
B = Analyte detected in laboratory blank analysis, no blank subtraction performed.
D = Secondary dilution required for this analyte.

Table 4-25

Concentrations of Inorganic Analytes in Site 8 Groundwater Samples

Location: Sample ID:	MW-08-01 08-01-01		MW-08-02 08-02-01		MW-08-03 08-03-01	
Analyses	Result	(DL)	Result	(DL)	Result	(DL)
EPA 160.1 - Total Dissolved Solids (mg/L)	4800	(10)	2800	(10)	15000	(10)
EPA 300.0 - Chloride (mg/L)	120	(0.52)	51	(0.13)	1700	(2.6)
EPA 300.0 - Sulfate (mg/L)	2600	(5.0)	1700	(2.5)	3800	(5.0)
EPA 340.2 - Fluoride (mg/L)	2.7	(0.10)	3.3	(0.10)	1.9	(0.10)
EPA 353.1 - Nitrate-Nitrite (mg/L)	ND	(0.022)	0.095 @	(0.022)	19	(0.22)
EPA 365.2 - Total Phosphorus (mg/L)	0.53	(0.020)	0.13	(0.020)	0.15	(0.020)
SW6010 - Metals (mg/L)						
Beryllium	0.0031 @	(0.0020)	ND	(0.0020)	ND	(0.0020)
Chromium	0.013 @	(0.010)	ND	(0.010)	ND	(0.010)
Copper	0.031 @	(0.020)	ND	(0.020)	ND	(0.020)
Nickel	0.021 @	(0.020)	ND	(0.020)	ND	(0.020)
Zinc	0.086 @	(0.020)	ND	(0.020)	ND	(0.020)
SW7060 - Arsenic (mg/L)	0.011 @	(0.0040)	0.0051 @	(0.0040)	0.011 @	(0.0040)
SW7421 - Lead (mg/L)	0.021	(0.0030)	0.0058 @	(0.0030)	ND	(0.0030)

NOTE: Table presents only constituents detected in groundwater at this site.
@ = Measured result is less than five times the detection limit.
ND = Not Detected, at the reported detection limit.

Table 4-26

Concentrations of Organic Analytes in Site 8 Groundwater Samples

Location: Sample ID:	MW-08-01 08-01-01		MW-08-02 08-02-01		MW-08-03 08-03-01	
Analyses	Result	(DL)	Result	(DL)	Result	(DL)
SW8080 - Organochlorine Pesticides and PCBs (ug/L)						
4,4'-DDD	ND	(0.0097)	ND	(0.010)	0.033 C@	(0.0097)
4,4'-DDE	ND	(0.0097)	ND	(0.010)	0.023 C@	(0.0097)
Aldrin	ND	(0.0097)	ND	(0.010)	0.18 X	(0.0097)
Chlordane	ND	(0.048)	ND	(0.050)	0.44 X	(0.048)
Dieldrin	0.017 C@	(0.0097)	ND	(0.010)	0.67 X	(0.0097)
Heptachlor	ND	(0.0097)	ND	(0.010)	0.15 C	(0.0097)
Heptachlor epoxide	ND	(0.0097)	ND	(0.010)	0.50 X	(0.0097)
alpha-BHC	0.068 X	(0.0097)	ND	(0.010)	ND	(0.0097)
delta-BHC	2.8 X	(0.0097)	ND	(0.010)	0.016 X@	(0.0097)
gamma-BHC	0.066 C	(0.0097)	ND	(0.010)	0.45 C	(0.0097)
SW8240 - Volatile Organics (ug/L)						
1,2-Dichloroethane	ND	(25)	ND	(5.0)	8.0 @	(5.0)
1,2-Dichloropropane	8.3 J	(25)	ND	(5.0)	ND	(5.0)
Benzene	10000 D	(250)	ND	(5.0)	0.81 J	(5.0)
Bromodichloromethane	ND	(25)	0.94 J	(5.0)	ND	(5.0)
Chloroform	ND	(25)	4.1 J	(5.0)	1.1 J	(5.0)
Ethyl benzene	1600 D	(250)	ND	(5.0)	ND	(5.0)
Methylene chloride	11 J	(25)	3.6 J	(5.0)	2.8 J	(5.0)
Toluene	7.7 J	(25)	ND	(5.0)	ND	(5.0)
Xylenes	19 J	(25)	ND	(5.0)	ND	(5.0)
SW8240 - Volatile Organics, TIC List (ug/L)						
Naphthalene	270	()	ND	()	ND	()

NOTE: Table presents only constituents detected in groundwater at this site.
ND = Not Detected, at the reported detection limit.
@ = Measured result is less than five times the detection limit.
X = SW8080–Presence of analyte confirmed by second column analysis, but quantitation was not confirmed.
C = Presence and quantitation of analyte confirmed by second column analysis.
J = Detected below the detection limit.
D = Secondary dilution required for this analyte.
TIC = Tentatively identified compound.

Appendix A-2

Portion of *Site Investigation Report Waste Sites SS-06, SD-15, AOC-RR, and AOC-BBMS, Holloman Air Force Base, New Mexico*

Ebasco Services, Inc, and Groundwater Technology
October 1995

DRAFT FINAL
SITE INVESTIGATION REPORT
WASTE SITES SS-06, SD-15, AOC-RR, AND AOC-BBMS
HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared for:

49 CES/CEVR
Holloman Air Force Base, NM

and

HQ ACC/ESVR
Langley Air Force Base, VA

Prepared by:

Ebasco Services, Inc. dba
Foster Wheeler Environmental Corporation
143 Union Blvd., Suite 1010
Lakewood, Colorado 80228-1824

and

Groundwater Technology
Government Services, Inc.
2501 Yale Blvd., S.E.
Albuquerque, New Mexico 87106

Under Contract No. DACW-45-94-D-0003

Delivery Order 1, Work Authorization Directives 3, 5, 9

U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

October 1995

HAFB-03\SI-TEXT.RPT

AOC-RR

Area of Concern - Railroad Building

TABLE 3-1
SOIL VAPOR SURVEY RESULTS AT AOC-RR"
RAILROAD BUILDING 80
HOLLOMAN AFB, NM
MARCH 1995

Sample No.	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Total BTEX (ug/l)	TPH (ug/l)
AOC-RR-SG-01	0.10	0.24	0.06	0.26	0.66	<20
AOC-RR-SG-02	0.05	0.26	0.08	0.34	0.73	<20
AOC-RR-SG-03	<0.05	0.15	0.05	0.22	0.42	<20
AOC-RR-SG-04	<0.05	0.20	<0.05	0.19	0.39	<20
AOC-RR-SG-05	0.07	0.21	0.07	0.27	0.55	<20
AOC-RR-SG-06	0.07	0.24	0.07	0.28	0.66	<20
AOC-RR-SG-07	0.10	0.25	0.07	0.27	0.69	<20
AOC-RR-SG-08	0.07	0.18	0.06	0.24	0.55	<20
AOC-RR-SG-09	0.09	0.19	0.07	0.27	0.62	<20
AOC-RR-SG-10	0.06	0.23	0.08	0.33	0.70	<20
AOC-RR-SG-11	<0.05	0.17	0.06	0.23	0.46	<20
AOC-RR-SG-11DUP	0.06	0.19	<0.05	<0.05	0.25	<20
AOC-RR-SG-12	<0.05	0.17	0.05	0.21	0.43	<20
AOC-RR-SG-13	<0.05	0.14	0.06	0.19	0.39	<20
AOC-RR-SG-14	<0.05	0.21	0.07	0.29	0.57	<20
AOC-RR-SG-15	0.10	0.31	0.08	0.32	0.81	<20
AOC-RR-SG-16	0.58	0.51	0.10	0.31	1.50	<20
AOC-RR-SG-17	<0.05	0.11	<0.05	0.18	0.29	<20

TABLE 3-1 (Continued)
SOIL VAPOR SURVEY RESULTS AT AOC-RR
RAILROAD BUILDING 80
HOLLOMAN AFB, NM
MARCH 1995

Sample No.	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Total BTEX (ug/l)	TPH (ug/l)
AOC-RR-SG-18	<0.05	0.13	<0.05	0.12	0.25	<20
AOC-RR-SG-19	<0.05	0.15	0.06	0.22	0.43	<20
AOC-RR-SG-20	<0.05	0.20	0.08	0.33	0.61	<20
AOC-RR-SG-21	<0.05	0.15	<0.05	0.22	0.37	<20
AOC-RR-SG-22	0.05	<0.05	0.14	0.19	0.38	<20
AOC-RR-SG-22DUP	<0.05	0.16	<0.05	0.21	0.37	<20
AOC-RR-SG-23	0.07	0.24	0.08	0.37	0.76	<20
AOC-RR-SG-EQUIP. BLANK (3/21/95)	<0.05	0.18	0.06	0.30	0.54	<20
AOC-RR-SG-24	<0.05	0.16	0.06	0.29	0.51	<20
AOC-RR-SG-25	<0.05	0.17	0.06	0.28	0.51	<20
AOC-RR-SG-26	0.08	0.40	0.15	0.71	1.34	<20
AOC-RR-SG-27	<0.05	0.14	<0.05	0.22	0.36	<20
AOC-RR-SG-28	<0.05	0.17	0.06	0.27	0.50	<20
AOC-RR-SG-29	<0.05	0.14	<0.05	0.20	0.34	<20
AOC-RR-SG-29DUP	0.05	0.16	<0.05	<0.05	0.21	<20

[a]Samples analyzed for BTEX and TPH by EPA Methods Modified 5030/8020 and 8015.
ug/l = Micrograms per liter.
TPH = Total Petroleum Hydrocarbons as JP-4.
< = Indicates compound not detected at the stated reporting limit.

TABLE 3-2
GEOTECHNICAL SOIL ANALYTICAL RESULTS AT AOC-RR
RAILROAD BUILDING 80
HOLLOMAN AFB, NM
MARCH 1995

SAMPLE NO.	DEPTH (FT)	USCS IDENT	MOISTURE CONTENT (%wt.)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MEDIAN GRAIN SIZE (mm)
AOC-RR-SB-01-6-8	6-8	ML	23.9	29	26	3	0.0128
AOC-RR-SB-02-8-10	8-10	SM/SC	21.5	-	NON-PLASTIC	-	0.0890
AOC-RR-SB-03-4-6	4-6	ML	20.8	32	25	7	0.0294
AOC-RR-SB-04-2-4	2-4	SM/SC	22.5	-	NON-PLASTIC	-	0.0075
AOC-RR-SB-05-6-8	6-8	ML	35.2	38	33	5	0.0053
AOC-RR-SB-06-6-8	6-8	ML	29.6	35	33	2	0.0062

- = Not measured
USCS = Unified Soil Classification System
%wt = Weight percent
FT = Feet
mm = Millimeter

TABLE 3-3
SUMMARY OF SOIL ANALYTICAL RESULTS AT AOC-RR
RAILROAD BUILDING 80
HOLLOMAN AFB, NM
MARCH - APRIL 1995

CONSTITUENTS	COMPARATIVE CONCENTRATIONS		AOC-RR-SB01-6-8	AOC-RR-SB01-10-12	AOC-RR-SB02-2-4	AOC-RR-SB02-2-4D	AOC-RR-SB02-8-10	AOC-RR-SB03-4-6	AOC-RR-SB03-8-10	AOC-RR-SB04-2-4
	Background[a]	Risk-based Levels[b]								
SAMPLE DEPTH (feet)	--	--	6-8	10-12	2-4	2-4	8-10	4-6	8-10	2-4
VOLATILE ORGANICS - METHOD 8240 (ug/kg)										
All Constituents	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL PETROLEUM HYDROCARBONS - METHOD 8015 (mg/kg)	N/A	1000[c]	<20	<20	<20	<20	<20	<20	<20	<20
TAL METALS - METHODS 6000s AND 7000s (mg/kg)										
Barium	84	72,000	<100	<100	<100	<100	<100	170	63	<100
Calcium	250,000	N/A	160,000	130,000	170,000	170,000	140,000	140,000	130,000	130,000
Chromium	6.61	1,000,000	<15	<15	<15	<15	<15	<15	6.6	<15
Copper	4.84	38,000	<12	<12	<12	<12	<12	<12	5.0	<12
Iron	6,362	N/A	9,100	7,600	2,500	2,600	3,400	5,400	6,300	3,700
Lead	-2.32	400[c]	7.5	3.9	2.0	1.8	1.4	3.2	3.0	2.9
Nickel	5.61	20,000	<20	<20	<20	<20	<20	<20	8	<20
Vanadium	15.46	7,200	<25	<25	<25	<25	<25	<25	17	<25
Zinc	20.25	310,000	30	32	19	20	31	25	19	27

TABLE 3-3 (Continued)
SUMMARY OF SOIL ANALYTICAL RESULTS AT AOC-RR
RAILROAD BUILDING 80
HOLLOMAN AFB, NM
MARCH - APRIL 1995

CONSTITUENTS	COMPARATIVE CONCENTRATIONS		AOC-RR-SB04-6-8	AOC-RR-SB05-2-4	AOC-RR-SB05-6-8	AOC-RR-SB06-2-4	AOC-RR-SB06-6-8
	Background[a]	Risk-based Levels[b]					
SAMPLE DEPTH (feet)	--	--	6-8	2-4	6-8	2-4	6-8
VOLATILE ORGANICS - METHOD 8240 (ug/kg)							
All Constituents	N/A	N/A	ND	ND	ND	ND	ND
TOTAL PETROLEUM HYDROCARBONS - METHOD 8015 (mg/kg)	N/A	1000[m]	<20	<20	<20	<20	<20
TAL METALS - METHODS 6000s AND 7000s (mg/kg)							
Barium	84	72,000	<100	<100	<100	280	<100
Calcium	250,000	N/A	120,000	220,000	300,000	180,000	190,000
Chromium	6.61	1,000,000	<15	<15	<15	<15	<15
Copper	4.84	38,000	<12	<12	<12	<12	<12
Iron	6,362	N/A	4,600	1,200	6,700	6,700	3,100
Lead	-2.32	400[n]	2.3	1.3	3.8	2.6	6.9
Nickel	5.61	20,000	<20	<20	<20	<20	<20
Vanadium	15.46	7,200	<25	<25	<25	<25	<25
Zinc	20.25	310,000	24	64	41	26	60

TABLE 3-3 (Continued)
SUMMARY OF SOIL ANALYTICAL RESULTS AT AOC-RR
RAILROAD BUILDING 80
HOLLOMAN AFB, NM
MARCH - APRIL 1995

[m] *Basewide Background Study Holloman AFB* (Radian, 1993).

[n] EPA Region III Risk-based levels (R.L. Smith, November 1994).

[o] NMED USTB Correspondence to Holloman AFB, dated November 2, 1992.

[p] EPA Action Level for residential exposure.

ND = No compounds detected for method specified.

ug/kg = Micrograms per kilogram

N/A = Not applicable/not established

NA = Not analyzed

mg/kg = Milligrams per kilogram

TAL = Target Analyte List

< = Indicates compound not detected at the stated reporting limit.

TABLE 3-4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS AT AOC-RR
RAILROAD BUILDING 80
HOLLOMAN AFB, NM
APRIL 1995

ANALYTES	COMPARATIVE CONCENTRATIONS		AOC-RR-GP-01	AOC-RR-GP-02	AOC-RR-GP-03	AOC-RR-GP-04	AOC-RR-GP-05	AOC-RR-GP-05DUP	AOC-RR-GP-06	AOC-RR-GP-07	AOC-RR-GP-07D
	Background*	Risk-based									
VOLATILE ORGANICS - METHOD 8240 (ug/l)											
Benzene	N/A	0.36	3,000	<5	<5	<5	36	23	870	700	780
1,2-Dichloroethane	N/A	0.12	380	<5	<5	9	190	170	440	<50	51
1,2-Dichloropropane	N/A	0.16	<250	<5	<5	<5	20	16	<50	<50	<50
Ethylbenzene	N/A	1,300	260	<5	<5	24	30	18	1,000	<50	<50
Toluene	N/A	750	1,200	<5	<5	<5	8	5	90	<50	<50
Xylenes	N/A	12,000	1,200	<5	<5	<5	49	35	560	120	180
TAL METALS - METHODS 6000s and 7000s (ug/l)											
Aluminum	N/A	37,000	19,000	<10,000	<10,000	12,000	12,000	NA	22,000	44,000	NA
Lead	19.9	N/A	<4.0	<4.0	<4.0	<4.0	<4.0	NA	<4.0	46	NA
Manganese	N/A	180	4,200	<750	2,000	2,900	8,700	NA	3,300	<1,500	NA
Zinc	253	11,000	9,300	<1,000	1,400	4,800	3,100	NA	<1,000	<2,000	NA
pH - METHOD 150.1	N/A	6-9	7.45	7.72	7.63	7.67	7.29	NA	7.25	7.20	7.17

TABLE 3-4 (continued)
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS AT AOC-RR
RAILROAD BUILDING 80
HOLLOMAN AFB, NM
APRIL 1995

ANALYTES	COMPARATIVE CONCENTRATION		AOC-RR-GP-08	AOCRR-GP-09	AOCRR-GP-11	AOC-RR-GP-12	AOC-RR-GP-12D	AOC-RR-GP-13	AOC-RR-GP-14	AOC-RR-GP-15	AOC-RR-GP-16
	Background[a]	Risk-based Levels[b]									
VOLATILE ORGANICS - METHOD 8240 (ug/l)											
Benzene	N/A	0.36	<5	750	3,300	<1	<1	100	<1	<1	40
1,2-Dichloroethane	N/A	0.12	<5	85	280	<2	<2	<20	<2	<2	290
1,2-Dichloropropane	N/A	0.16	<5	<50	<250	<2	<2	<20	<2	<2	<4
Ethylbenzene	N/A	1,300	<5	<50	960	2	2	490	<1	<1	210
Toluene	N/A	750	<5	<50	<250	<5	<5	1,600	<5	<5	<10
Xylenes	N/A	12,000	<5	750	<250	5	6	3,200	3	<2	<4
TAL METALS - METHODS 6000s and 7000s (ug/l)											
Aluminum	N/A	37,000	53,000	38,000	<200	NA	NA	NA	NA	NA	NA
Lead	19.9	N/A	<20	<20	<20	NA	NA	NA	NA	NA	NA
Manganese	N/A	180	<1,500	<1,500	1,900	NA	NA	NA	NA	NA	NA
Zinc	253	11,000	<2000	<2,000	<20	NA	NA	NA	NA	NA	NA
pH - METHOD 150.1	N/A	6-9	7.35	7.64	7.39	6.78	NA	7.31	6.47	7.10	6.95

TABLE 3-4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS AT AOC-RR
RAILROAD BUILDING 80
HOLLOMAN AFB, NM
APRIL 1995

[m]*Basewide Background Study for Holloman AFB* (Radian, 1993).

[n]EPA Region III, Risk-Based Concentrations (R.L. Smith, November 8, 1994).

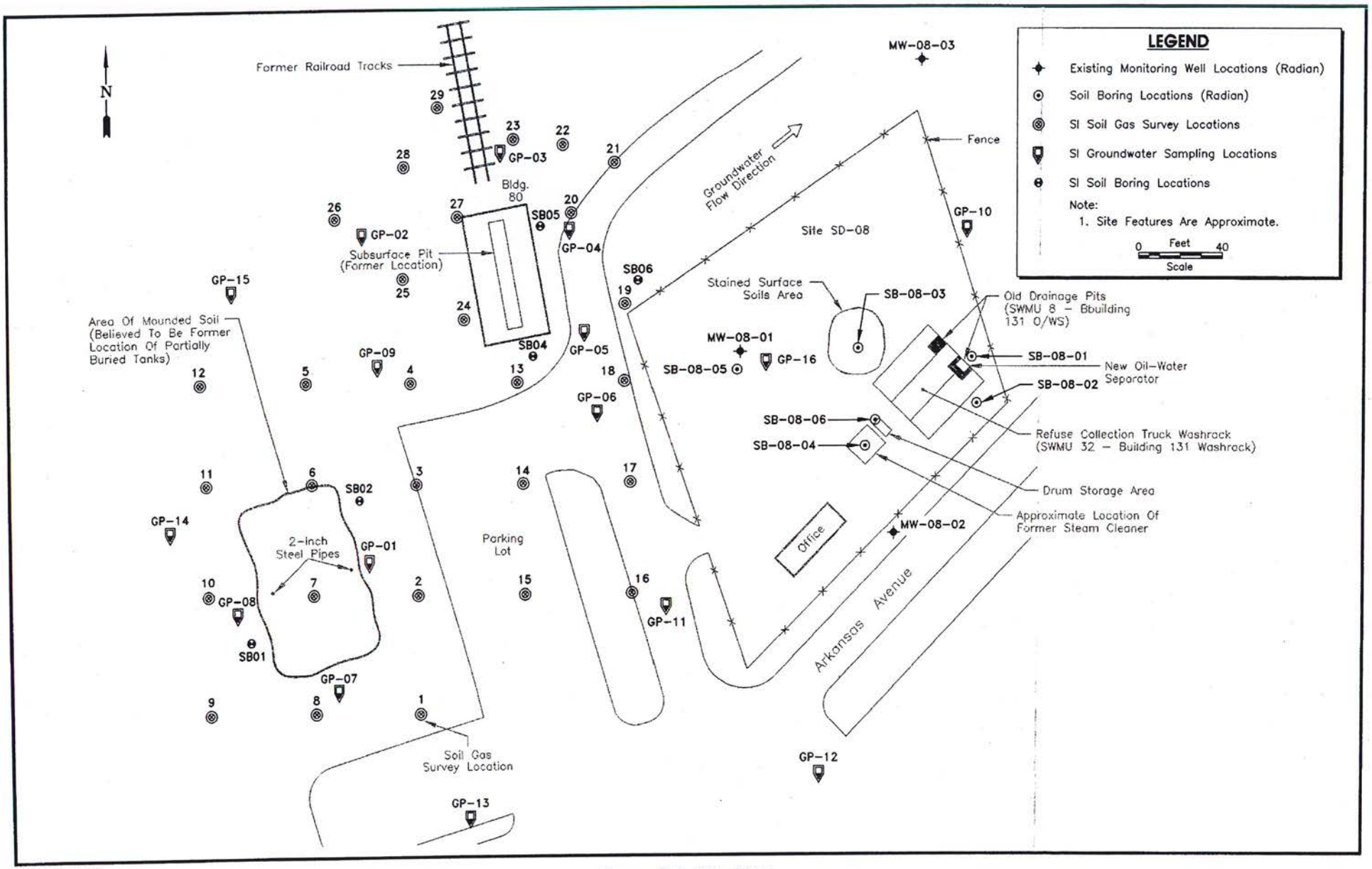
< = Indicates compound not detected at the stated reporting limit.

ug/l = Micrograms per Liter

NA = Not Analyzed

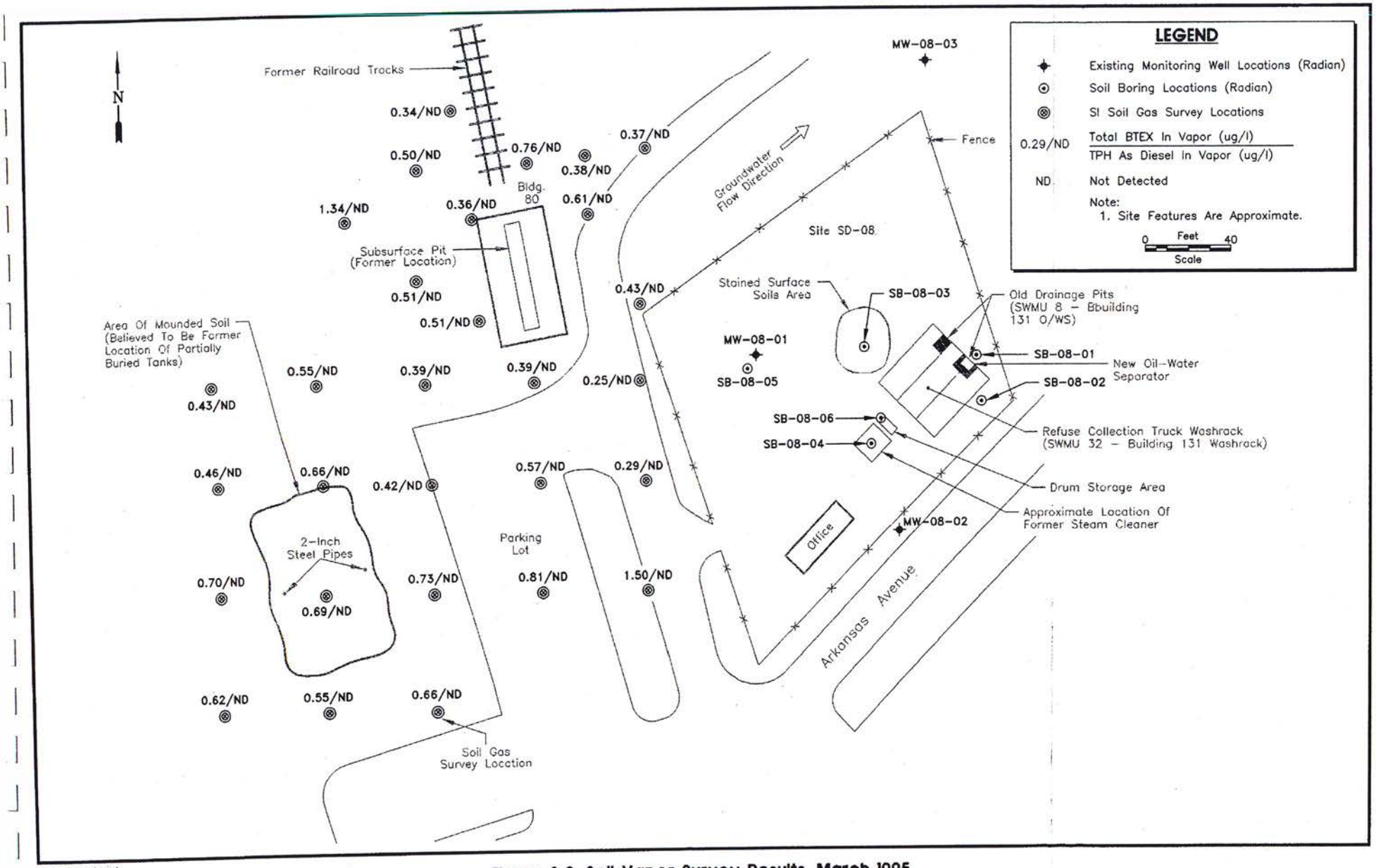
TAL = Target Analyte List

N/A = Not applicable/not established



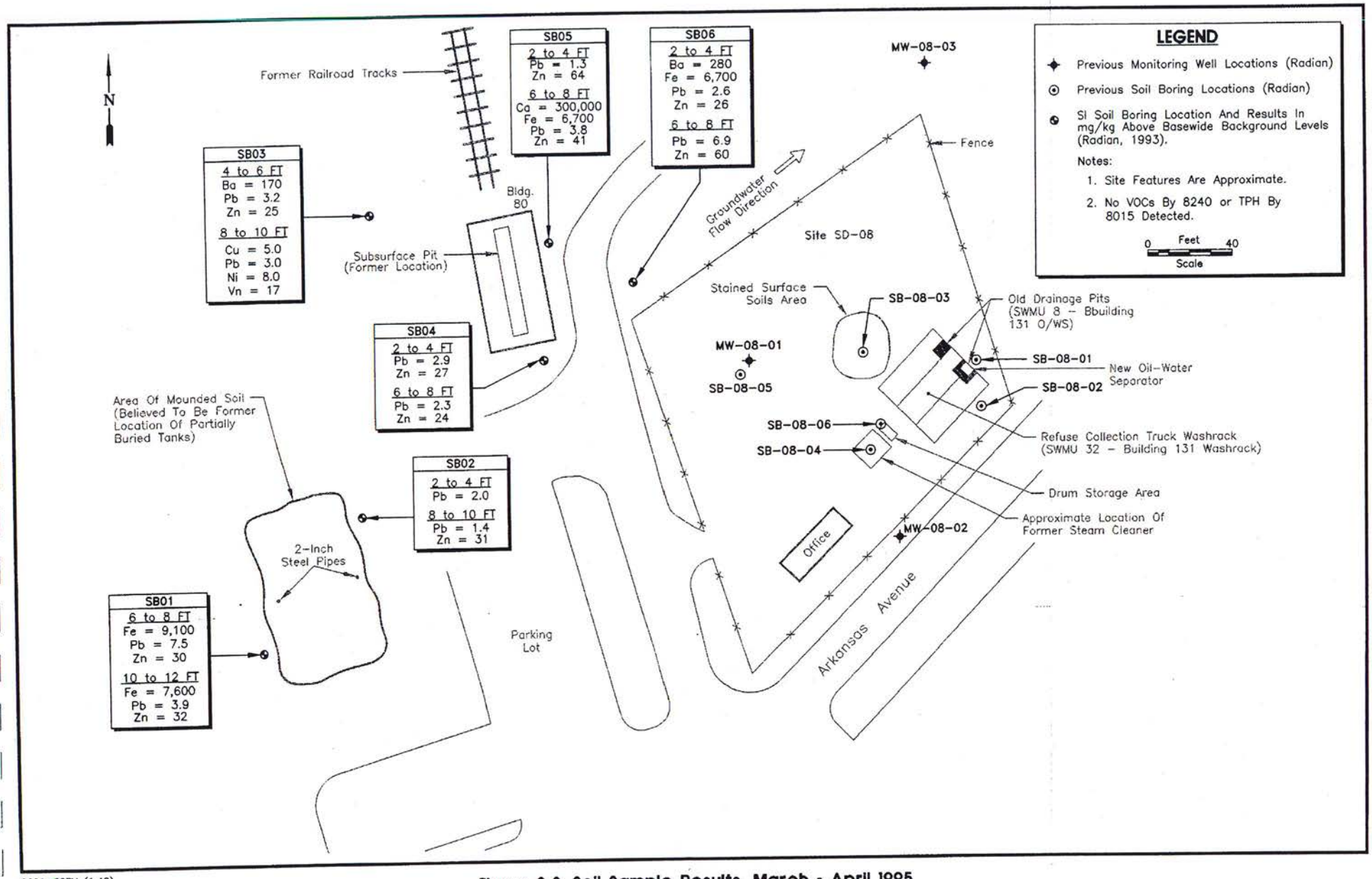
2201-ST3 (1:40)

Figure 3-1. Site Map
Site AOC-RR, Railroad Building 80



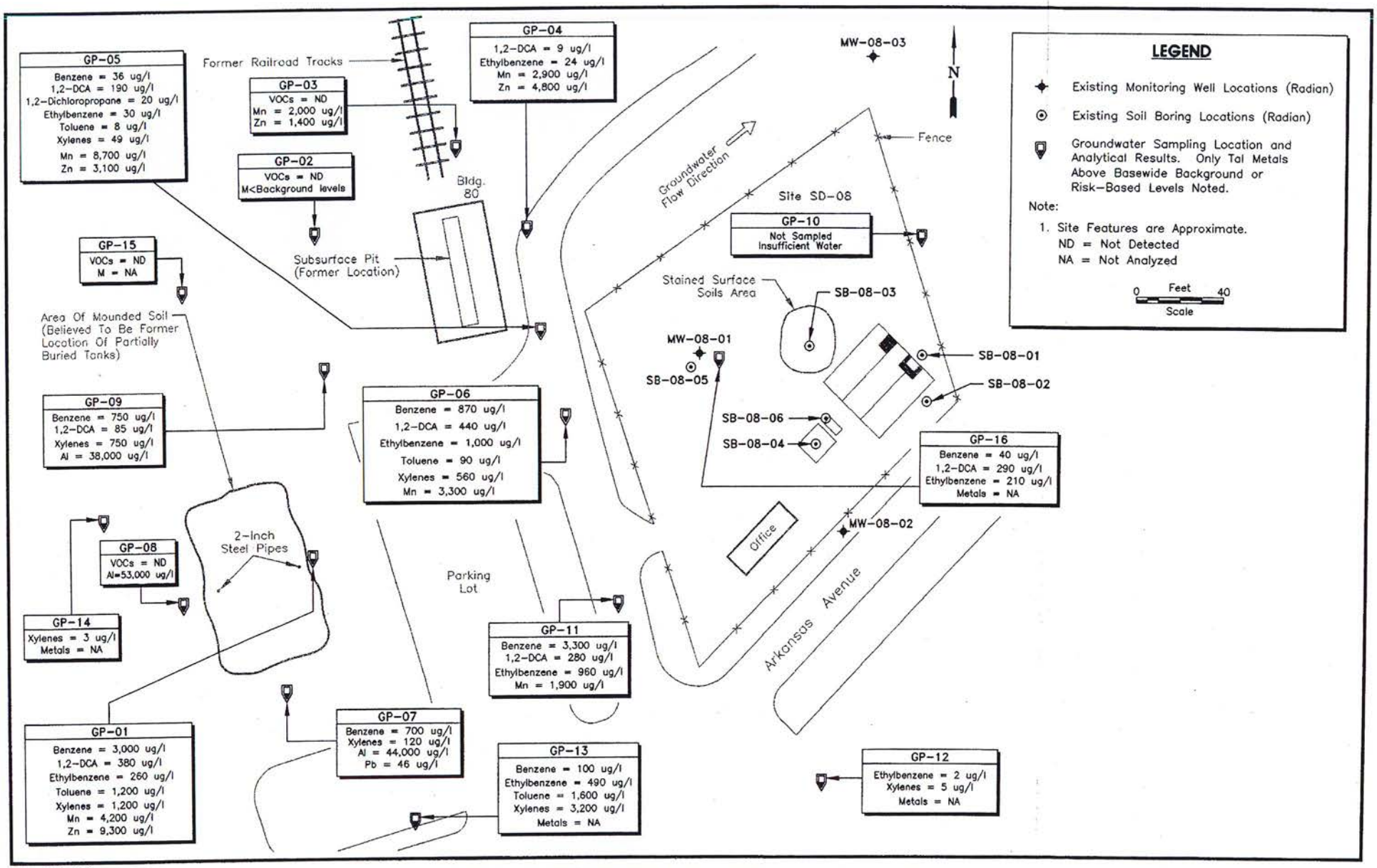
2201-SVS (1:40)

Figure 3-2. Soil Vapor Survey Results, March 1995
Site AOC-RR, Railroad Building 80



2201-SSRV (1:40)

Figure 3-3. Soil Sample Results, March - April 1995
Site AOC-RR, Railroad Building 80



2201-GA (1:40)

Figure 3-4. Groundwater Analytical Results, April 1995
Site AOC-RR Railroad, Building 80

Appendix A-3

Portion of *Feasibility Study (FS), Investigation, Study and Recommendation for 29 Waste Sites, Holloman Air Force Base, New Mexico*

Radian, December, 1993

DCN 93-269-004-16-11
RCN 269-004-16-08

FEASIBILITY STUDY (FS)

INVESTIGATION, STUDY AND RECOMMENDATION FOR 29 WASTE SITES HOLLOMAN AIR FORCE BASE, NEW MEXICO

DRAFT FINAL

Prepared for:

49 CES/CEV
Holloman Air Force Base, NM
and
HQ ACC/CEVR
Langley Air Force Base, VA

Prepared by:

Radian Corporation
8501 North Mopac Boulevard
Post Office Box 201088
Austin, Texas 78720-1088

Under Contract No. DACW45-91-D-0018 with:

U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

December 1993

Table 2-5

Remedial Action Objectives, Site 8

Objective	Exposure Route and Receptor	Criteria	Contaminant	Cleanup Criteria
Prevent dermal contact with contaminated soil	Dermal contact with contaminated soil by on-Base workers	Acceptable health risk	4,4'-DDD	4000 μg/kg
			4,4'-DDE	3300 μg/kg
Prevent inhalation of contaminated soil	Inhalation of contaminated soil by on-Base workers	Acceptable health risk	4-4'-DDT	1100 μg/kg
			Chlordane	140 μg/kg
			Cadmium	0.290 mg/kg
			Lead	12.000 mg/kg
			Mercury	0.016 mg/kg

Table 2-6

Concentrations of Contaminants Above Cleanup Criteria, Site 8

Location	Depth (ft)	Metals (mg/kg)			Pesticides (µg/kg)			
		Cadmium	Lead	Mercury	4,4'-DDD	4,4'-DDE	4,4'-DDT	Chlordane
SB-08-01	0 - 2	0.920	50.000	0.490				950
SB-08-02	0 - 2	1.800	370.000	2.200	4000	5600	9300	4000
SB-08-03	0 - 2		19.000	0.110				230
SB-08-04	0 - 2			0.800				730
	2 - 4		18.000					
SB-08-06	2.5 - 4.5	0.920	69.900					
SB-08-10	0 - 2	3.710	50.600	0.297				263 B
SB-08-11	0 - 2			0.068				
	2 - 4	NA	NA	NA				238
SB-08-12	0 - 2	NA	NA	NA			2740	
SB-08-13	0 - 2	NA	NA	NA			4210	386

Note--Samples from SB-08-01 through SB-08-06 were collected during the RI. Samples from SB-08-07 through SB-08-20 were collected during the PDI.

NA--Not analyzed.
B--Analyte detected in method blank.

Table 2-7

Concentrations of Metals Analytes, Site 8

Location	Depth (ft)	Analyses (results in mg/kg)		
		SW6010--Cadmium	SW7421--Lead	SW7471--Mercury
SB-08-01	0 - 2	0.920	50.000	0.490
	6 - 8	ND	1.100	ND
SB-08-02	0 - 2	1.800	370.000	2.200
	5 - 7	ND	2.300	ND
SB-08-03	0 - 2	ND	19.000	0.110
	10 - 12	ND	0.300	ND
SB-08-04	0 - 2	ND	8.100	0.800
	2 - 4	ND	18.000	ND
SB-08-05	2 - 4	ND	2.000	ND
	6 - 8	ND	0.750	ND
SB-08-06	2.5 - 4.5	0.920	1.000	ND
	7.5 - 9.5	ND	1.300	ND
SB-08-07	0 - 2	ND	9.220	ND
SB-08-10	0 - 2	3.710	69.900	0.297
SB-08-11	0 - 2	ND	10.600	0.068
SB-08-12	2 - 4	ND	2.800	ND
SB-08-13	2 - 4	ND	9.110	ND
SB-08-14	2 - 4	ND	7.250	ND
SB-08-17	0 - 2	ND	7.440	ND
SB-08-19	0 - 2	ND	0.726	ND

Note--Samples from SB-08-01 through SB-08-06 were collected during the RI. Samples from SB-08-07 through SB-08-20 were collected during the PDI. Only those analytes included in the RAOs are listed.

ND--Not detected or detected below method detection limit.

Table 2-8

Concentrations of Pesticides Analytes, Site 8

Location	Depth (ft)	Analyses–SW8080 Pesticides (µg/kg)				
		4,4'-DDD	4,4'-DDE	4,4'-DDT	Chlordane	Heptachlor
SB-08-01	0 - 2	110.0	410.0	400.0	950.0	6.3
	6 - 8	ND	ND	ND	ND	0.3
SB-08-02	0 - 2	4000.0	5600.0	9300.0	4000.0	56.0
	5 - 7	1.0X	10.0	12.0	20.0	0.9
SB-08-03	0 - 2	28.0	86.0	26.0	230.0	ND
	10 - 12	ND	ND	ND	ND	0.9
SB-08-04	0 - 2	230.0	530.0	500.0	730.0	12.0
	2 - 4	ND	3.3	ND	ND	0.3
SB-08-05	2 - 4	ND	1.0	ND	ND	0.4
	6 - 8	ND	ND	ND	ND	ND
SB-08-06	2.5 - 4.5	3.2	ND	1.3	17.0	ND
	7.5 - 9.5	4.0	0.8X	2.0	32.0	ND
SB-08-07	0 - 2	56.4	52.1	46.7	89.5B	4.1
SB-08-08	0 - 2	9.4	8.1	5.6	85.9	3.3
SB-08-09	0 - 2	3.4	9.0	8.3	3.6	ND
SB-08-10	0 - 2	116.0	88.4	82.5	263.0B	8.9P
	2 - 4	1.5	1.4	2.6	2.9B	ND
SB-08-11	0 - 2	21.0	23.3	20.6	57.7B	493.0
	2 - 4	ND	ND	ND	238.0	343.0
SB-08-12	0 - 2	65.0P	1850.0	2740.0	51.1B	ND
	2 - 4	ND	12.0	7.9	ND	ND
SB-08-13	0 - 2	492.0P	2500.0	4210.0	386.0	7.8
	2 - 4	1.8P	1.8	15.6	23.4	2.5
	4 - 6	4.9	12.1	18.4	1.8	ND
SB-08-14	2 - 4	ND	2.9	3.7	1.2	ND
	4 - 6	1.0	5.9	6.0	2.9	ND
SB-08-15	0 - 2	1.7	6.1	3.5	3.4	ND
	2 - 4	1.9	4.0	4.0	2.2	ND
SB-08-16	0 - 2	1.5	10.2	8.1	ND	ND
SB-08-17	0 - 2	ND	106.0	29.6	ND	ND
	2 - 4	ND	8.9	4.4	ND	ND
SB-08-18	0 - 2	91.2	696.0	707.0	21.6B	ND
SB-08-19	0 - 2	1.3	1.2	3.4	2.8	ND
	2 - 4	ND	ND	ND	ND	ND
SB-08-20	0 - 2	ND	7.8	10.0	ND	ND
	2 - 4	ND	ND	ND	ND	ND

Note–Samples from SB-08-01 through SB-08-06 were collected during the RI. Samples from SB-08-07 through SB-08-20 were collected during the PDI. Only those analytes included in the RAOs are listed.

ND–Not detected, detected below method detection limit, or detected below reporting limit.
B–Analyte detected in method blank.
P–Analyte not confirmed.
X–Presence of analyte confirmed by 2nd column analysis, but quantitation not confirmed.

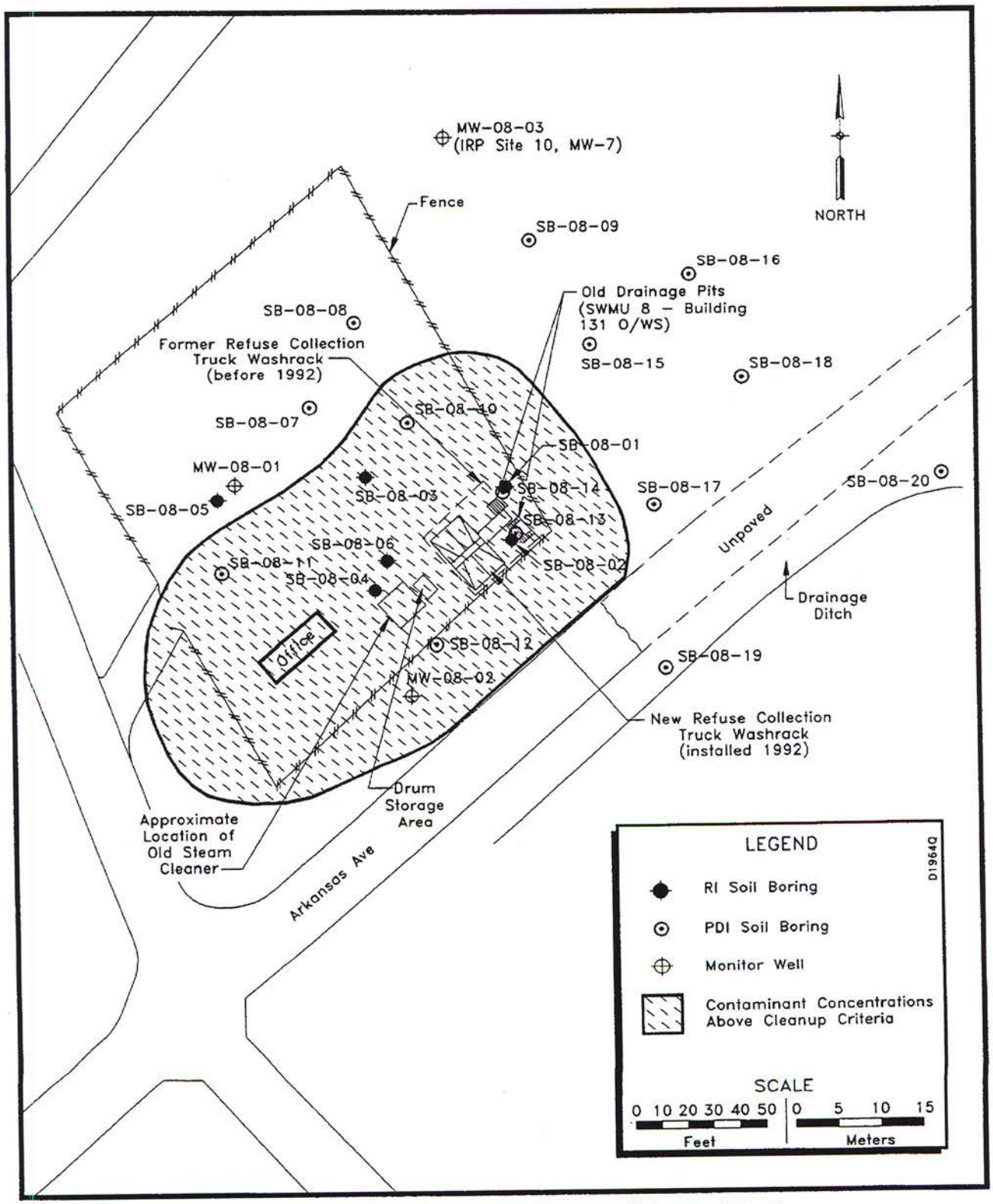


Figure 2-6. Area of Soil Above Cleanup Criteria, Site 8

Table F-4

Concentrations of Pesticides in Site 8 Soil Samples

Location:	SB-08-07	SB-08-08	SB-08-09	SB-08-10	SB-08-10	SB-08-11	SB-08-11	SB-08-12	SB-08-12
Sample ID: Depth:	SB-08-07-01 0.0 to 2.0 ft	SB-08-08-01 0.0 to 2.0 ft	SB-08-09-01 0.0 to 2.0 ft	SB-10-01-01 0.0 to 2.0 ft	SB-10-02-01 2.0 to 4.0 ft	SB-08-11-01 0.0 to 2.0 ft	SB-08-11-02 2.0 to 4.0 ft	SB-08-12-01 0.0 to 2.0 ft	SB-08-12-02 2.0 to 4.0 ft
Analyses									
SW8080-Pesticides (μg/kg)									
Aldrin	11.90B	5.47K	ND	ND	ND	ND	ND	2.08BP	ND
alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	ND	9.52K	ND	21.20K	ND	ND	ND	1.01P	ND
delta-BHC	ND	5.81	ND	ND	ND	ND	ND	ND	ND
gamma-BHC	2.44KB	ND	ND	2.74B	ND	6.51B	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	32.20B	18.10	1.25	106.00B	1.29B	11.10B	ND	21.10B	ND
gamma-Chlordane	57.30	67.80	2.30	157.00	1.64	46.60	238.00	30.00	ND
4,4'-DDD	56.40	9.35	3.38	116.00	1.51	21.00	ND	65.00P	ND
4,4'-DDE	52.10	8.10	8.96	88.40	1.40	23.30	ND	1850.00	12.00
4,4'-DDT	46.70	5.56	8.31	82.50	2.64	20.60	ND	2740.00	7.92
Dieldrin	ND	2.90KJ	ND	ND	ND	ND	ND	164.00K	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	4.47K	5.61K	ND	10.10P	ND	4.31K	ND	ND	ND
Endosulfan Sulfate	ND	ND	ND	37.60B	ND	ND	ND	ND	ND
Endrin	7.67KB	7.78K	ND	10.70BK	ND	7.33KB	ND	15.70BK	ND
Endrin Aldehyde	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	4.14	3.29	ND	8.86P	ND	493.00	343.00	ND	ND
Heptachlor Epoxide	8.53B	3.90B	NR	6970.00 K	NR	5040.00 K	93600.00 K	10.50	ND
Isodrin	ND	6.29	ND	ND	ND	ND	ND	9.30	ND
Methoychlor	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	ND	ND	ND	ND	ND	ND	ND	1.09P	ND

Table F-4

(Continued)

Location:	SB-08-07	SB-08-08	SB-08-09	SB-08-10	SB-08-10	SB-08-11	SB-08-11	SB-08-12	SB-08-12
Sample ID: Depth:	SB-08-07-01 0.0 to 2.0 ft	SB-08-08-01 0.0 to 2.0 ft	SB-08-09-01 0.0 to 2.0 ft	SB-10-01-01 0.0 to 2.0 ft	SB-10-02-01 2.0 to 4.0 ft	SB-08-11-01 0.0 to 2.0 ft	SB-08-11-02 2.0 to 4.0 ft	SB-08-12-01 0.0 to 2.0 ft	SB-08-12-02 2.0 to 4.0 ft
Analyses									
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW8080-TCLP Pesticides (μg/L)									
gamma-BHC	NA	NA	NA	0.13B	NA	NA	NA	NA	NA
Chlordane	NA	NA	NA	ND	NA	NA	NA	NA	NA
Endrin	NA	NA	NA	ND	NA	NA	NA	NA	NA
Heptachlor	NA	NA	NA	0.11	NA	NA	NA	NA	NA
Heptachlor Epoxide	NA	NA	NA	0.10	NA	NA	NA	NA	NA
Methoxychlor	NA	NA	NA	ND	NA	NA	NA	NA	NA
Toxaphene	NA	NA	NA	ND	NA	NA	NA	NA	NA
Location:	SB-08-13	SB-08-13	SB-08-13	SB-08-14	SB-08-14	SB-08-15	SB-08-15	SB-08-16	SB-08-17
Sample ID: Depth:	SB-08-13-01 0.0 to 2.0 ft	SB-08-13-02 2.0 to 4.0 ft	SB-08-13-03 4.0 to 6.0 ft	SB-08-14-01 2.0 to 4.0 ft	SB-08-14-02 4.0 to 6.0 ft	SB-08-15-01 0.0 to 2.0 ft	SB-08-15-02 2.0 to 4.0 ft	SB-08-16-01 0.0 to 2.0 ft	SB-08-17-01 0.0 to 2.0 ft
Analyses									
SW8080-Pesticides (μg/kg)									
Aldrin	9.64	ND	ND	ND	ND	2.54BP	ND	ND	ND
alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND	ND	5.88K	1.51K	ND	ND
delta-BHC	8.48	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	72.40	ND	ND	ND	ND	1.47KB	ND	ND	ND
gamma-Chlordane	314.00	2.46	1.82	1.20	2.89	3.40	2.22	ND	ND
4,4'-DDD	492.00P	1.76P	4.93	ND	1.03	1.67	1.94	1.53	ND
4,4'-DDE	2500.00	15.60	12.10	2.89	5.86	6.10	4.02	10.20	106.00

Table F-4

(Continued)

Location:	SB-08-13	SB-08-13	SB-08-13	SB-08-14	SB-08-14	SB-08-15	SB-08-15	SB-08-16	SB-08-17
Sample ID: Depth:	SB-08-13-01 0.0 to 2.0 ft	SB-08-13-02 2.0 to 4.0 ft	SB-08-13-03 4.0 to 6.0 ft	SB-08-14-01 2.0 to 4.0 ft	SB-08-14-02 4.0 to 6.0 ft	SB-08-15-01 0.0 to 2.0 ft	SB-08-15-02 2.0 to 4.0 ft	SB-08-16-01 0.0 to 2.0 ft	SB-08-17-01 0.0 to 2.0 ft
Analyses									
4,4'-DDT	4210.00	23.40	18.40	3.69	6.02	3.48	3.98	8.06	29.60
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	60.80K	1.12K	1.40K	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	ND	ND	ND	ND	ND	ND	ND	ND	1.11KB
Heptachlor	7.75	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	18.40	1.16B	1.10B	ND	ND	ND	ND	ND	ND
Isodrin	13.90	ND	ND	ND	ND	2.42BP	ND	ND	ND
Methoychlor	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	17.90P	ND
SW8080-TCLP Pesticides (μg/L)									
gamma-BHC	0.09B	ND	NA	NA	NA	NA	NA	NA	ND
Chlordane	ND	ND	NA	NA	NA	NA	NA	NA	ND
Endrin	ND	ND	NA	NA	NA	NA	NA	NA	ND
Heptachlor	0.05K	ND	NA	NA	NA	NA	NA	NA	0.04K
Heptachlor Epoxide	1.22P	0.03	NA	NA	NA	NA	NA	NA	ND
Methoxychlor	ND	ND	NA	NA	NA	NA	NA	NA	ND
Toxaphene	ND	ND	NA	NA	NA	NA	NA	NA	ND

Table F-4

(Continued)

Location:	SB-08-17	SB-08-17	SB-08-18	SB-08-19	SB-08-19	SB-08-20	SB-08-20		
Sample ID: Depth:	SB-08-17-01 2.0 to 4.0 ft Field Dup	SB-08-17-02 2.0 to 4.0 ft	SB-08-18-01 0.0 to 2.0 ft	SB-08-19-01 0.0 to 2.0 ft	SB-08-19-02 2.0 to 4.0 ft	SB-08-20-01 0.0 to 2.0 ft	SB-08-20-02 2.0 to 4.0 ft		
Analyses									
SW8080-Pesticides (μ g/kg)									
Aldrin	ND	ND	1.44BP	ND	ND	ND	ND		
alpha-BHC	ND	ND	ND	ND	ND	ND	ND		
beta-BHC	ND	ND	1.50K	ND	ND	ND	ND		
delta-BHC	ND	ND	ND	ND	ND	ND	ND		
gamma-BHC	ND	ND	ND	ND	ND	ND	ND		
Chlordane	ND	ND	ND	ND	ND	ND	ND		
alpha-Chlordane	ND	ND	9.15B	ND	ND	ND	ND		
gamma-Chlordane	ND	ND	12.40	2.83	ND	ND	ND		
4,4'-DDD	ND	ND	91.20	1.33	ND	ND	ND		
4,4'-DDE	105.0	8.90	696.00	1.20	ND	7.81	ND		
4,4'-DDT	0.27	4.41	707.00	3.43	ND	9.97	ND		
Dieldrin	ND	ND	148.00KE	ND	ND	ND	ND		
Endosulfan I	ND	ND	ND	ND	ND	ND	ND		
Endosulfan II	ND	ND	ND	ND	ND	ND	ND		
Endosulfan Sulfate	ND	ND	ND	ND	<DL	ND	<DL		
Endrin	ND	ND	10.40KB	ND	ND	ND	ND		
Endrin Aldehyde	ND	ND	ND	ND	ND	ND	ND		
Endrin Ketone	ND	ND	ND	ND	ND	ND	ND		
Heptachlor	ND	ND	ND	ND	ND	ND	ND		
Heptachlor Epoxide	ND	ND	ND	ND	ND	ND	ND		
Isodrin	ND	ND	2.70P	ND	ND	ND	ND		
Methoychlor	ND	ND	ND	ND	ND	ND	ND		

Table F-4

(Continued)

Location:	SB-08-17	SB-08-17	SB-08-18	SB-08-19	SB-08-19	SB-08-20	SB-08-20		
Sample ID: Depth:	SB-08-17-01 2.0 to 4.0 ft Field Dup	SB-08-17-02 2.0 to 4.0 ft	SB-08-18-01 0.0 to 2.0 ft	SB-08-19-01 0.0 to 2.0 ft	SB-08-19-02 2.0 to 4.0 ft	SB-08-20-01 0.0 to 2.0 ft	SB-08-20-02 2.0 to 4.0 ft		
Analyses									
Mirex	ND	ND	ND	ND	ND	ND	ND		
Toxaphene	ND	ND	ND	ND	ND	ND	ND		

B = Analyte detected in method blank.
E = Analyte concentration exceeded calibration range.
K = Confirmation unsuccessful. Analyte not detected on second column.
P = Analyte not confirmed. Ratio of results from primary and secondary GC columns greater than 3.
ND = Not detected, detected below detection limit, or detected below reporting limit.
NA = Not Analyzed.

Table F-5

Concentrations of Metals Analytes in Site 8 Soil Samples

Location:	SB-08-07	SB-08-10	SB-08-11	SB-08-12	
Sample ID: Depth:	SB-08-07-01 0.0 to 2.0 ft	SB-10-01-01 0.0 to 2.0 ft	SB-08-11-01 0.0 to 2.0 ft	SB-08-12-02 2.0 to 4.0 ft	
Analyses					
SW6010-Cadmium (mg/kg)	ND	3.710	ND	ND	
SW7421-Lead (mg/kg)	9.220	69.900	50.600	2.800	
SW7471-Mercury (mg/kg)	ND	0.297	0.068	ND	
SW6010-TCLP Metals (mg/L)					
Arsenic	NA	ND	NA	NA	
Barium	NA	0.148	NA	NA	
Cadmium	NA	ND	NA	NA	
Chromium	NA	0.028	NA	NA	
Lead	NA	ND	NA	NA	
Silver	NA	ND	NA	NA	
SW7470-TCLP Mercury (mg/L)	NA	ND	NA	NA	
SW7740-TCLP Selenium (mg/L)	NA	0.017	NA	NA	
Location:	SB-08-13	SB-08-13	SB-08-14	SB-08-17	SB-08-19
Sample ID: Depth:	SB-08-13-01 0.0 to 2.0 ft	SB-08-13-02 2.0 to 4.0 ft	SB-08-14-01 2.0 to 4.0 ft	SB-08-17-01 0.0 to 2.0 ft	SB-08-19-01 0.0 to 2.0 ft
Analyses					
SW6010-Cadmium (mg/kg)	NA	ND	ND	ND	ND
SW7421-Lead (mg/kg)	NA	9.110	7.250	7.440	0.726
SW7471-Mercury (mg/kg)	NA	ND	ND	ND	ND
SW6010-TCLP Metals (mg/L)					
Arsenic	ND	ND	NA	ND	NA
Barium	0.148	0.359	NA	0.388	NA
Cadmium	ND	ND	NA	ND	NA
Chromium	0.028	0.010	NA	0.023	NA
Analyses					
Lead	ND	ND	NA	ND	NA
Silver	ND	ND	NA	ND	NA
SW7470-TCLP Mercury (mg/L)	ND	ND	NA	ND	NA
SW7740-TCLP Selenium (mg/L)	0.029	ND	NA	ND	NA

ND = Not detected, detected below detection limit, or detected below reporting limit.

Appendix A-4

Portion of *Phase II RCRA Facility Investigation Report, Table I Solid Waste Management Units, Holloman Air Force Base, NM*

Foster Wheeler Environmental Corporation and Radian
June 1995

SD-08

Headquarters, Air Combat Command
Langley Air Force Base,
Virginia

Draft Final

Phase II RCRA Facility Investigation Report

Table 1 Solid Waste Management Units

Volume I

June 1995

49th FIGHTER WING

49 CES/CEV
Holloman Air Force Base,
New Mexico

DCN 95-670-008-09

Draft Final

PHASE II RCRA FACILITY INVESTIGATION REPORT

TABLE 1 SOLID WASTE MANAGEMENT UNITS
HOLLOMAN AIR FORCE BASE, NM

VOLUME I

Prepared for:

49 CES/CEV
Holloman Air Force Base, NM

and

HQ ACC/CEVR
Langley Air Force Base, VA

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Under Contract No. DACW45-94-D-0003, DO No. 02, WAD 03 with:

U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

June 1995

SWMU 82

4.1 SWMU 82—Building 131 Washrack (IRP Site SD-08)

Organochlorine pesticides and metals were detected in the shallow soils at SWMU 82 (the Building 131 Truck Washrack); organochlorine pesticides were also detected in the groundwater during the 29 Sites RI. The associated risk evaluation concluded that pesticide concentrations in soil pose an occupational health risk. To mitigate this risk, the site entered into the FS/CMS process, which established cleanup criteria for health-based RAOs, estimated an area exceeding these cleanup criteria, and recommended the emplacement of an impermeable cap. The cap will eliminate the occupational risk by eliminating the dermal and inhalation exposure pathway. The Phase II RFI delineated the extent of organochlorine pesticide contamination in the groundwater. SWMU 82 is recommended for long-term groundwater monitoring to ensure that the remedial action is preventing further degradation of groundwater.

4.1.1 SWMU Description

SWMU 82 is located in the southeastern corner of the refuse collection yard near Building 131. The refuse collection yard is located southwest of the Petroleum, Oil, and Lubricant (POL) Storage Area and east of the Main Base area. The yard occupies approximately one-half acre and is surrounded by a chain-link fence. The yard is unpaved and has sparse vegetation only along the fence. The topography of the site is generally flat. Figure 1-2 shows the location of SWMU 82 on Holloman AFB, and Figure 4.1-1 shows the site layout.

The washrack was installed in 1942 and consisted of a rectangular concrete pad (approximately 1000 ft^2). Refuse collection trucks were washed with soap and water at the washrack. Base records indicate that pesticides were routinely sprayed inside the trucks during the 1970s for fly control; however, this practice ceased in 1982. Drains located at the north end of the washrack connected to a sewer line that carried wastewater to an oil/water separator near the northwest corner of the washrack. According to site personnel, it was common for the sewer line to clog, causing the sump and oil/water separator to overflow onto the surrounding soil. The washrack contained cracks in the concrete and was replaced in 1992 with a new washrack in the same location.

Geology and Hydrogeology

Three monitor wells were installed during the Phase II RFI to a depth of 16.5 ft bgl. Drilling logs from these wells indicate that the stratigraphy at SWMU 82 consists primarily of silty and clayey sands. A layer of poorly-graded sand interbedded with thin layers of caliche and clayey sands was encountered in the boring closest to the washrack. Drilling logs from the *29 Sites RI* (Radian, 1992b) also indicated the presence of a sand layer within the silty sand unit. This sand layer was not encountered in borings for the two wells installed further downgradient of the washrack. Phase II RFI drilling logs, presented in Appendix B.1, provide a detailed description of the site lithology.

Groundwater was encountered at 9 to 10 ft bgl at SWMU 82. Water level data collected during groundwater sampling at the site confirmed that the groundwater flow is to the northeast, as shown in Figure 4.1-2.

4.1.2 Phase I Activities

The site was identified in the *IRP Phase I Records Search* (CH2M Hill, 1983). As a result, the site was investigated under Phase I of the IRP as Site SD-08 in 1991. During the 29 Sites RI, soil samples were collected from six soil borings drilled in areas of potential contamination. Metals and organochlorine pesticides were detected in the surface soils at the site. The highest concentrations were detected in soil borings SB-08-01 and SB-08-02 drilled near the southeastern corner of the washrack. Groundwater samples were collected from three monitor wells. Organochlorine pesticides and VOCs were detected in the groundwater. The highest concentrations of organochlorine

pesticides were detected in the downgradient monitor well MW-08-03. Sample locations are shown in Figure 4.1-1.

A preliminary risk-based screen was conducted for SWMU 82 as part of the 29 Sites RI. The screen indicated that organochlorine pesticide concentrations in the soil pose an unacceptable risk to human health and the environment (Radian, 1992b).

Because surface soils at SWMU 82 pose an unacceptable human health risk, remedial action was recommended. In addition, further investigation was recommended to define the extent of organochlorine pesticides and metals contamination in the soil and organochlorine pesticides in the groundwater at the site.

After reviewing the *29 Sites RI* (Radian, 1992b), EPA Region VI issued a letter, received by the Base on 3 November 1992, requesting:

- The installation of additional soil borings to define the extent of soil contamination around the northwestern perimeter of the washrack;
- The installation of additional monitor wells to delineate the full extent of pesticide contamination in the groundwater;
- The definition of the source and extent of VOCs present in monitor well MW-08-01; and
- The notification of a newly identified SWMU and associated releases.

The highest concentrations of VOCs were detected in the upgradient monitor well MW-08-01. On the basis of site history and investigation results, it was concluded that VOC concentrations detected in the groundwater were not due to site activities (Radian, 1992b). Holloman AFB identified a new AOC and is currently investigating the area.

4.1.3 Phase II Activities

The following additional investigations were conducted at SWMU 82 to address EPA Region VI concerns and implement the site recommendations:

- The corrective measures study in 1992;
- The feasibility study in 1993; and
- The Phase II RFI in 1994.

To select the appropriate remedial action, SWMU 82 was entered into the FS/CMS process. The *CMS Plan* (Radian, 1992a) established health-based RAOs for soil contamination at the site. The RAOs for the site are to prevent an unacceptable health risk posed to site workers by dermal contact and inhalation of contaminated soils. The cleanup criteria are presented in Table 4.1-1.

To determine the vertical and lateral extent of soil contamination exceeding the cleanup criteria, a predesign investigation was conducted in 1993. During the predesign investigation, 14 soil borings were installed to the groundwater table. Soil boring locations are shown in Figure 4.1-1.

To determine the extent of organochlorine pesticides in the groundwater, the Phase II RFI was conducted in 1994. During the investigation, groundwater samples were collected from seven temporary standpipes, installed using a direct push technology (DPT) rig, and located downgradient of SWMU 82. The samples were submitted to the laboratory for organochlorine pesticide analysis. The results of the DPT groundwater samples were used to place three new monitor wells downgradient of the SWMU. Groundwater samples were collected from the three new wells (MW-08-05, MW-08-06, and MW-08-07) and two existing wells (MW-08-03 and HSTE-10-MW-01). The monitor well locations are shown in Figure 4.1-2.

Table 4.1-1
Remedial Action Objectives for SWMU 82

Objective	Contaminant	Cleanup Criteria (mg/kg)	Comment
Prevent dermal contact with contaminated soil above the cleanup criteria.	4,4-DDD	4.0	Contaminated soil below the cleanup criteria does not present an occupational health risk.
	4,4-DDE	3.3	
Prevent inhalation of contaminated soil above the cleanup criteria.	4,4-DDT	1.1	
	Cadmium	0.29	
	Chlordane	0.14	
	Lead	12	
	Mercury	0.016	

Field Screening Results

The groundwater samples collected from the DPT locations were analyzed for organochlorine pesticides using EPA Method SW8080.

Concentrations of delta-BHC and alpha-BHC were detected at or below the detection limits. A concentration of 4,4'-DDD was detected below the detection limit in location HP-08-06. A concentration of gamma-BHC was measured at the detection limit in location HP-08-02. The results of the field screening were used to place one monitor well (MW-05) immediately downgradient, and two wells further downgradient of the SWMU. The field screening results are presented in Table B.6-1 of Appendix B.6.

Analytical Results

Soil samples collected at SWMU 82 were analyzed for cadmium, lead, mercury, and organochlorine pesticides using EPA Methods SW6010, SW7421, SW7471, and SW8080, respectively. The analytical results were presented in the *FS Report* (Radian, 1993b) and Table 4.1-2 was adapted from that report.

The area exceeding the cleanup criteria at SWMU 82 was estimated to be 20,800 sq. ft and encompasses the southern half of the refuse yard (Radian, 1993b). The estimated extent is shown in Figure 4.1-1. The depth of affected soils was estimated to extend to 2 ft bgl, except in the immediate vicinity of soil borings SB-08-04, SB-08-06, and SB-08-11, where contamination was detected to 4 ft bgl. The greatest number of analytes and the highest concentrations were detected in soil borings SB-08-01 and SB-08-02 near the northeastern edge of the washrack. A total volume of 1540 yd^3 was estimated to exceed the cleanup criteria at SWMU 82. The recommended remedial alternative for achieving the RAOs is source containment by constructing an impermeable cap over the affected soils.

All groundwater samples collected from monitor wells were analyzed for organochlorine pesticides using EPA Method SW8080. The analytical results are presented in Table 4.1-3. The greatest number and highest concentrations of organochlorine pesticides were detected in the monitor wells (MW-08-03 and MW-08-05) located immediately downgradient of the SWMU. Monitor wells located further downgradient contained concentrations below detection limits. Concentrations of 4,4'-DDD and delta-BHC were detected below the detection limits in the samples. Similar concentrations of delta-BHC were detected in the laboratory method blanks, making its presence in

the samples uncertain and likely due to low-level laboratory contamination. Concentrations of heptachlor epoxide were detected in monitor wells MW-08-03 (0.16 µg/L) and MW-08-05 (0.033 µg/L).

4.1.4 Conclusions

The lateral and vertical extent of organochlorine pesticide and metal concentrations in soil has been delineated. Contaminant concentrations were found to be highest in the southeastern corner of the refuse yard near and around the washrack. The concentrations pose an occupational health risk, and the selected corrective action to mitigate the risk is source containment by the emplacement of an impermeable cap over the affected soils. Once the remedial action has been implemented, the exposure pathways to soil will be eliminated. As a result, the occupational health risk will also be eliminated.

Elevated organochlorine pesticide concentrations were detected only in the two monitor wells nearest the site.

4.1.5 Recommendations

Voluntary corrective action (VCA) is recommended for SWMU 82. The recommended impermeable cap should be constructed over the soil with contaminants exceeding the health-based cleanup criteria. SWMU 82 is also recommended for long-term groundwater monitoring (using existing wells) to ensure that the remedial action prevents degradation of groundwater.

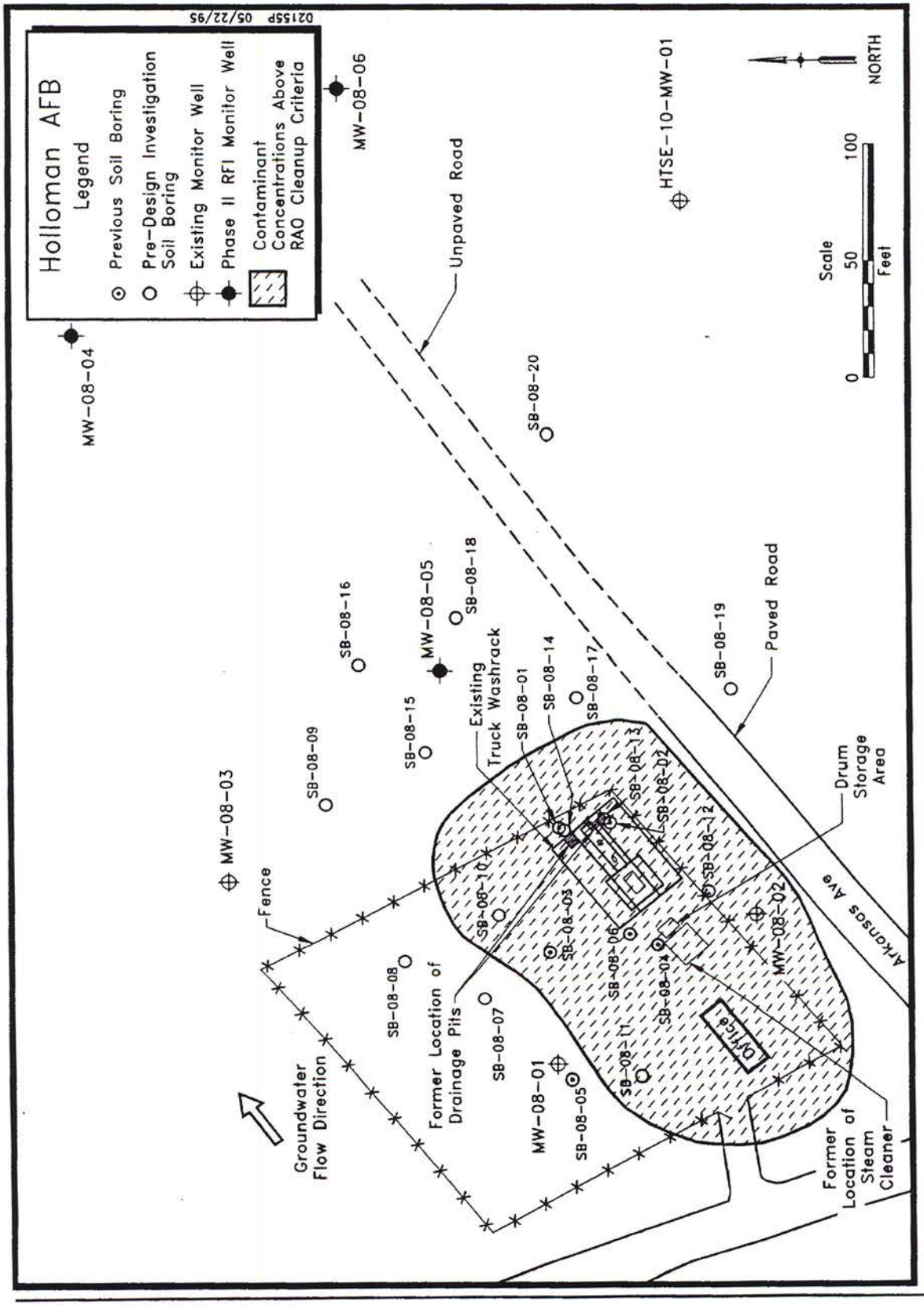

Figure 4.1-1. SWMU 82 - Soil Sample Locations

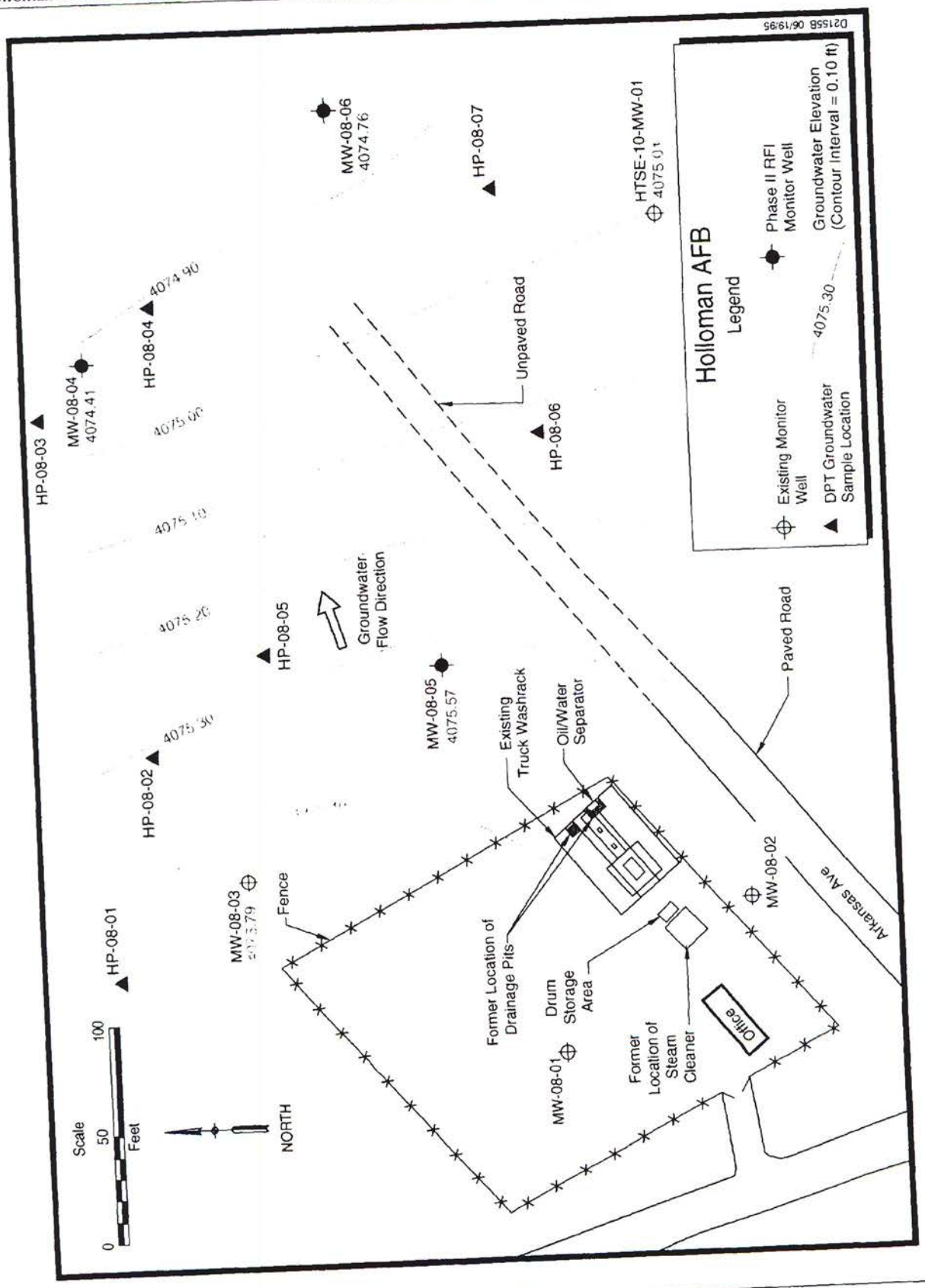

Figure 4.1-2. SWMU 82 - Groundwater Sample Locations

Table 4.1-2
Analytical Results for SWMU 82 Soil Samples

Location ID		SB-08-01	SB-08-01	SB-08-02	SB-08-02	SB-08-03	SB-08-03	SB-08-04	SB-08-04	SB-08-05
Total Depth (ft)		0 - 2	6 - 8	0 - 2	5 - 7	0 - 2	10 - 12	0 - 2	2 - 4	2 - 4
SW6010 (mg/kg)	Cadmium	0.92	ND	1.8	ND	ND	ND	ND	ND	ND
SW7421 (mg/kg)	Lead	50	1.1	370	2.3	19	0.3	8.1	18	2
SW7471 (mg/kg)	Mercury	0.49	ND	2.2	ND	0.11	ND	0.8	ND	ND
SW8080 (µg/kg)	4,4'-DDD	110	ND	4000	1.0X	28	ND	230	ND	ND
	4,4'-DDE	410	ND	5600	10	86	ND	530	3.3	1.0
	4,4'-DDT	400	ND	9300	12	26	ND	500	ND	ND
	Chlordane	950	ND	4000	20	230	ND	730	ND	ND
	Heptachlor	6.3	0.3	56	0.9	ND	0.9	12	0.3	0.4

Location ID		SB-08-05	SB-08-06	SB-08-06	SB-08-07	SB-08-08	SB-08-09	SB-08-10	SB-08-10	SB-08-11
Total Depth (ft)		6 - 8	2.5 - 4.5	7.5 - 9.5	0 - 2	0 - 2	0 - 2	0 - 2	2 - 4	0 - 2
SW6010 (mg/kg)	Cadmium	ND	0.92	ND	ND	NA	NA	3.71	NA	ND
SW7421 (mg/kg)	Lead	0.75	1	1.3	9.22	NA	NA	69.9	NA	10.6
SW7471 (mg/kg)	Mercury	ND	ND	ND	ND	NA	NA	0.297	NA	0.068
SW8080 (µg/kg)	4,4'-DDD	ND	3.2	4.0	56.4	9.4	3.4	116	1.5	21.0
	4,4'-DDE	ND	ND	.08X	52.1	8.1	9.0	88.4	1.4	23.3
	4,4'-DDT	ND	1.3	2.0	46.7	5.6	8.3	82.5	2.6	20.6
	Chlordane	ND	17	32	89.5B	85.9	3.6	263 B	2.9B	57.7B
	Heptachlor	ND	ND	ND	4.1	3.3	ND	8.9P	ND	493

Location ID		SB-08-11	SB-08-12	SB-08-12	SB-08-13	SB-08-13	SB-08-13	SB-08-14	SB-08-14	SB-08-15
Total Depth (ft)		2 - 4	0 - 2	2 - 4	0 - 2	2 - 4	4 - 6	2 - 4	4 - 6	0 - 2
SW6010 (mg/kg)	Cadmium	NA	NA	ND	NA	ND	NA	ND	NA	NA
SW7421 (mg/kg)	Lead	NA	NA	2.8	NA	9.11	NA	7.25	NA	NA
SW7471 (mg/kg)	Mercury	NA	NA	ND	NA	ND	NA	ND	NA	NA
SW8080 (µg/kg)	4,4'-DDD	ND	65P	ND	492	1.8P	4.9	ND	1.0	1.7
	4,4'-DDE	ND	1850	12.0	2500	1.8	12.1	2.9	5.9	6.1
	4,4'-DDT	ND	2740	7.9	4210	15.6	18.4	3.7	6.0	3.5
	Chlordane	238	51.1B	ND	386	23.4	1.8	1.2	2.9	3.4
	Heptachlor	343	ND	ND	7.8	2.5	ND	ND	ND	ND

Table 4.1-2
(Continued)

Location ID		SB-08-15	SB-08-16	SB-08-17	SB-08-17	SB-08-18	SB-08-19	SB-08-19	SB-08-20	SB-08-20
Total Depth (ft)		2 - 4	0 - 2	0 - 2	2 - 4	0 - 2	0 - 2	2 - 4	0 - 2	2 - 4
SW6010 (mg/kg)	Cadmium	NA	NA	ND	NA	NA	ND	NA	NA	NA
SW7421 (mg/kg)	Lead	NA	NA	7.44	NA	NA	0.726	NA	NA	NA
SW7471 (mg/kg)	Mercury	NA	NA	ND	NA	NA	ND	NA	NA	NA
SW8080 (µg/kg)	4,4'-DDD	1.9	1.5	ND	ND	91.2	1.3	ND	ND	ND
	4,4'-DDE	4.0	10.2	106	8.9	696	1.2	ND	7.8	ND
	4,4'-DDT	4.0	8.1	29.6	4.4	707	3.4	ND	10.0	ND
	Chlordane	2.2	ND	ND	ND	21.6B	2.8	ND	ND	ND
	Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND	ND

Note: Adapted from the *FS* (Radian, 1993b).
Note: Samples from SB-08-01 through SB-08-06 were collected during the 29 Sites RI (Radian, 1992b). Soil samples from SB-08-07 through SB-08-20 were collected during the predesign investigation. Only those analytes included in the RAOs are listed.

ND = Not detected, detected below method detection limit, or detected below reporting limit.
B = Analyte detected in method blank.
P = Analyte not confirmed.
X = Presence of analyte confirmed by second-column analysis, but quantitation not confirmed.

Table 4.1-3
Analytical Results for SWMU 82 Groundwater Samples

Location ID		HSTE-10		MW-08-03		MW-08-04		MW-08-05		MW-08-06	
SW8080 (µg/L)	4,4'-DDD	0.014 J	(0.031)	0.046	(0.031)	ND	(0.031)	0.0042 J	(0.031)	ND	(0.031)
	4,4'-DDE	ND	(0.052)	0.099	(0.052)	ND	(0.052)	ND	(0.052)	ND	(0.052)
	Endosulfan I	ND	(0.021)	0.046	(0.021)	ND	(0.021)	ND	(0.021)	ND	(0.021)
	Endosulfan II	ND	(0.01)	0.035	(0.01)	ND	(0.01)	ND	(0.01)	ND	(0.01)
	Heptachlor epoxide	ND	(0.013)	0.16	(0.013)	ND	(0.013)	0.033	(0.013)	ND	(0.013)
	alpha-BHC	ND	(0.013)	ND	(0.013)	ND	(0.013)	ND	(0.013)	ND	(0.013)
	delta-BHC	0.0051 JB	(0.023)	ND	(0.023)	0.0065 JB	(0.023)	ND	(0.023)	0.003 JB	(0.023)
	gamma-BHC	ND	(0.013)	0.010 J	(0.013)	ND	(0.013)	ND	(0.013)	ND	(0.013)

B = Reported analyte concentration may be due to analytical background (or noise) from the laboratory.
J = Estimated concentration; analyte measured below the detection limit.
ND = Not detected. No instrument response for analyte or result less than zero.
( ) = Detection limit.

Appendix A-5

Portion of *Decision Documents Installation Restoration Program*

Radian Corporation
September 1995

Headquarters, Air Combat Command
Langley Air Force Base,
Virginia

Decision Documents

Installation Restoration Program

September 1995

49 CES/CEV
Holloman Air Force Base,
New Mexico

Declaration

Statutory Preference for Treatment as a Principal Element is Applicable and a Five-Year Review is Required

Site Name and Location
IRP Site SD-08 (RCRA SWMU 82)
Refuse Collection Truck Washrack
Holloman Air Force Base, New Mexico

Statement of Basis and Purpose
This decision document presents the selected remedial action for the referenced site chosen in accordance with CERCLA, as amended by SARA and, to the extent practicable, the National Contingency Plan. This decision is based on the administrative record file for this site.

The State of New Mexico concurs on the selected remedy.

Assessment of the Site
Actual or threatened releases of hazardous substances from this site, if not addressed by implementing the response action selected in this decision document, may present a current or potential threat to public health, welfare, or the environment.

Description of the Selected Remedy
The selected remedy will reduce the risks associated with exposure to pesticide-contaminated soils at the site and will reduce the potential for infiltration of contaminants to groundwater. The major components of the selected remedy include the following:

- Placement of an impermeable cap over the affected soils;
- Installation of a chain-link fence to restrict access to the site;
- Annual inspection and maintenance of the cap; and
- Long-term groundwater monitoring to ensure the effectiveness of the remedial action.

Declaration Statement
The selected remedy is protective of human health and the environment, complies with federal and state requirements that are legally applicable or relevant and appropriate to the remedial action, and is cost effective. This remedy utilizes permanent solutions and alternative treatment technologies to the maximum extent practical and satisfies the statutory preferences for remedies that employ treatment that reduces toxicity, mobility, or volume as a principal element.

Because this remedy will result in hazardous substances remaining on-site above health-based levels, a review will be conducted within five years after commencement of remedial action to ensure that the remedy continues to provide adequate protection of human health and the environment.

Mark Weidler, Cabinet Secretary
New Mexico Environment Department

9/29/95
Date

Bruce Carlson
Brigadier General, USAF Commander

3 Nov 95
Date

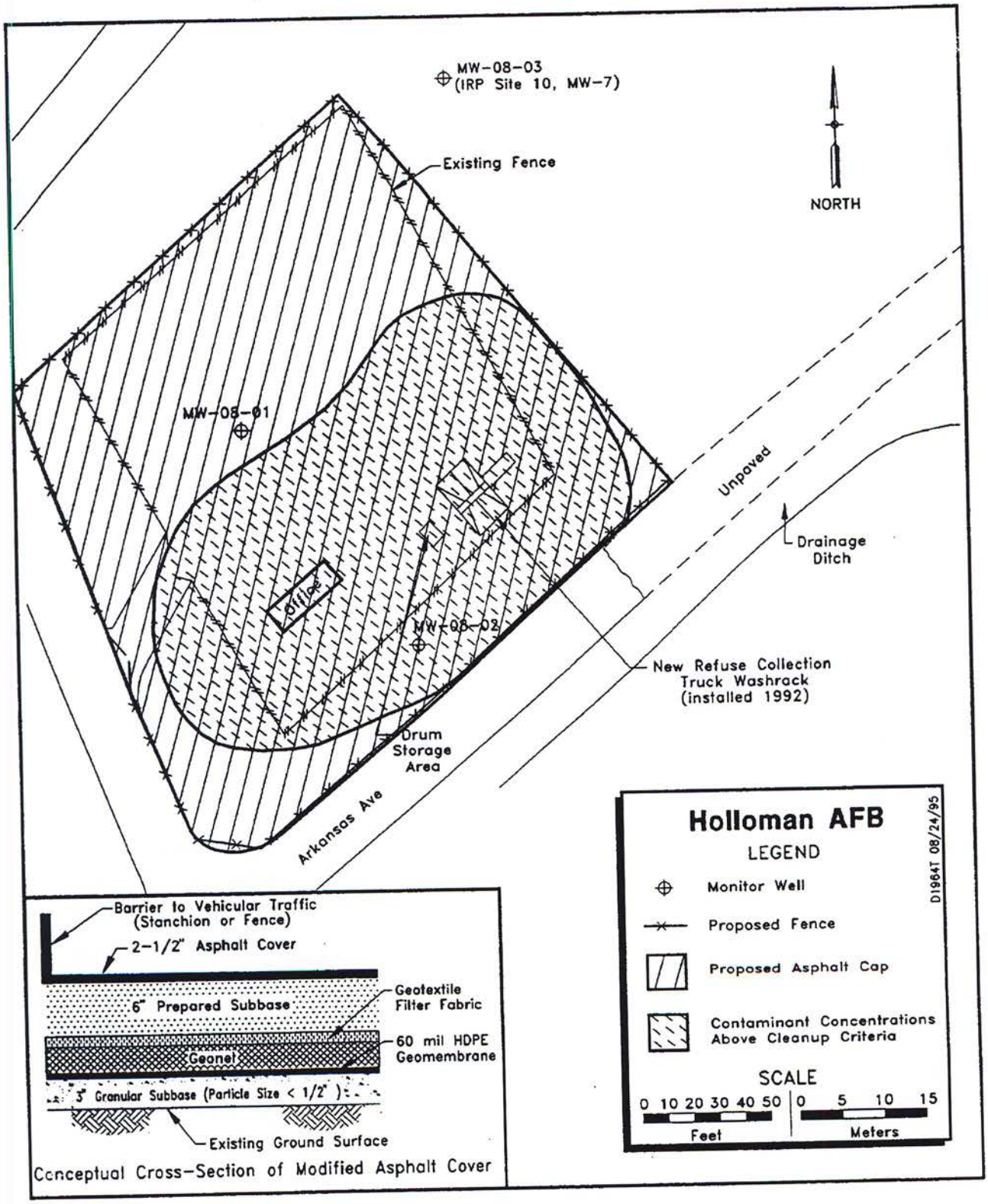

Figure 2-3 Map of Selected Remedial Action at Site SD-08

Appendix A-6

Portion of *2005 Long-Term Groundwater Monitoring Report, Holloman Air Force Base, New Mexico*

Bhate Environmental Associates, Inc.
May 2006

FINAL

2005 LONG-TERM GROUNDWATER MONITORING REPORT HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared for:

49 CES/CEV
Holloman Air Force Base, NM

and

HQ ACC/CEVR
Langley Air Force Base, VA

Bhate Project Number: 9050343.01.02

May 2006

Prepared by:

Bhate Environmental Associates, Inc.
1608 13th Avenue South, Suite 300
Birmingham, Alabama 35205

Table 5-2. Summary of Analytical Results from the 1995, 1997, 1999, 2001, 2003 and 2005 Long-Term Monitoring Programs at SD-08

Well Number	MW-08-01						MW-08-03 [4]					
Sampling Date	Aug-95	Sep-97	Sep-99	Sep-01	Apr-03	Dec-05	Aug-95	Sep-97	Sep-99	Sep-01	Apr-03	Dec-05
VOCs[1] (µg/L)												
Acetone	ND	ND	<5	NA	NA	NS	ND	ND	<5	NA	NA	ND
Benzene	ND	3.7	2.0 J	NA	NA	NS	ND	3.5	<3	NA	NA	ND
Bromodichloromethane	ND	ND	<3	NA	NA	NS	ND	ND	<3	NA	NA	ND
Bromoform	ND	ND	<3	NA	NA	NS	ND	ND	<3	NA	NA	ND
sec-Butylbenzene[5]	ND	2.3 J	NA	NA	NA	NS	ND	ND	NA	NA	NA	ND
Chloroform	170	ND	<3	NA	NA	NS	ND	0.99 J	1.0 J	NA	NA	1.5
1,2-Dichloroethane	ND	130	**130 D**	<5	**73**	NS	ND	ND	<3	<5	0.69 (J)	ND
1,2-Dichloropropane	ND	3.5	8	NA	NA	NS	ND	ND	<3	NA	NA	ND
Ethylbenzene	ND	1.5	2.0 J	NA	NA	NS	ND	ND	<3	NA	NA	ND
Isopropylbenzene[5]	ND	1.5 J	NA	NA	NA	NS	ND	ND	NA	NA	NA	ND
Naphthalene[5]	ND	1.5 J	NA	NA	NA	NS	ND	ND	NA	NA	NA	ND
Toluene	ND	0.86 J	<3	NA	NA	NS	ND	ND	<3	NA	NA	ND
Metals[2] (µg/L)												
Arsenic	ND	ND	31.6 B (J)	12.8	9.34 J	NS	10	ND	13.1 B (J)	10.5	22.8	8.3 J
Barium	ND	28	16.9 B (J)	14.2	16.5	NS	ND	ND	15.5 B (J)	11.2	12	15.1 J
Cadmium	ND	ND	0.3 B	NA	NA	NS	ND	ND	<0.3	NA	NA	NA
Chromium	ND	ND	<0.6	NA	NA	NS	ND	ND	1.6 B	NA	NA	NA
Iron	ND	5,900	**6,620 (J)**	**6,500**	**7,805**	NS	ND	ND	<21	<1,000	77.1 J	3,800 U
Lead	31	ND	<1.5	<10 (UJ)	NA	NS	92	ND	<1.5	<10 (UJ)	NA	NA
Manganese	ND	2,600	**3,720**	**2,690 (J)**	**2,980**	NS	ND	ND	7.0 B	<10 (UJ)	11.2	20.9
Selenium	ND	ND	<2.2	NA	NA	NS	ND	ND	10.2 B (J)	NA	NA	96 U
Silver	ND	ND	<0.5	NA	NA	NS	ND	ND	1.2 B (J)	NA	NA	NA
Organochlorine Pesticides[3] (µg/L)												
4,4'-DDD	ND	ND	<0.1	NA	NA	NS	0.02	ND	<0.1	NA	NA	NA
4,4'-DDE	ND	ND	<0.1	NA	NA	NS	0.03	ND	<0.1	NA	NA	NA
gamma-Chlordane	ND	ND	0.078 P (J)	NA	NA	NS	NA	NA	<0.05	NA	NA	NA
Endosulfan sulfate	ND	ND	<0.1	NA	NA	NS	0.1	ND	<0.1	NA	NA	NA
Heptachlor epoxide	ND	ND	<0.05	NA	NA	NS	ND	ND	<0.05	NA	NA	NA
Filterable Residue (mg/L)												
TDS[6]	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	**15,200**

Notes:

[1] Unless otherwise reported, no VOCs were detected using EPA Method 8260B.
(EPA Method 8260A was used to analyze for VOCs in the 1995 and 1997 programs.)

[2] Unless otherwise reported, no metals were detected using EPA Methods 6010B & 7470A.
(EPA Methods 6010 & 7000 were used to analyze for metals in the 1995 and 1997 programs.)

[3] Unless otherwise reported, no organochlorine pesticides were detected using EPA Method 8081A.
(EPA Method 8080A was used to analyze for organochlorine pesticides in the 1995 and 1997 programs.)

[4] Upgradient monitoring well

[5] Organic analyte not included in EPA Method 8260B (1999, 2001 and 2003)

[6] Total Dissolved Solids (TDS) were analyzed using EPA Method 160.1

CRDL - Contract-Required Detection Limit
IDL - Instrument Detection Limit
NA - Not analyzed
ND - Not detected at or above method reporting limit
NS - Not Sampled
VOCs - Volatile organic compounds
µg/L - Micrograms per liter
mg/L - Milligrams per liter

Laboratory Qualifiers--assigned as a result of laboratory data assessment procedures
B - Value less than CRDL but greater than or equal to IDL
D - Value derived from analysis of diluted sample
J - Estimated value; less than CRDL but greater than or equal to IDL
P - Results of dual-column GC technique differ by more than 25%; value is the lower of the two

EPA Qualifiers--assigned as a result of independent data validation
(J) - Estimated value based on QC criteria
(UJ) - Estimated non-detect based on QC criteria

2003/2005 Validation Qualifiers
J - Estimated value detected less than the CRDL but greater than the reporting limit.
U - Compound was analyzed for but not detected. Analyte result was below the CRDL.
UJ - Estimated as a non-detect at the detection limit.

Bold values indicate analytes above New Mexico Groundwater Quality Standards.

Table 5-2. Summary of Analytical Results from the 1995, 1997, 1999, 2001, 2003 and 2005 Long-Term Monitoring Programs at SD-08

Well Number	MW-08-04						MW-08-05					
Sampling Date	Aug-95	Sep-97	Sep-99	Sep-01	Apr-03	Dec-05	Aug-95	Sep-97	Sep-99	Sep-01	Apr-03	Dec-05
VOCs[1] (µg/L)												
Acetone	ND	ND	<5	NA	NA	ND	ND	ND	1.0 J	NA	NA	ND
Benzene	ND	ND	<3	NA	NA	ND	ND	ND	<3	NA	NA	ND
Bromodichloromethane	ND	0.61 J	<3	NA	NA	ND	ND	ND	<3	NA	NA	ND
Bromoform	ND	0.84 J	<3	NA	NA	ND	ND	ND	<3	NA	NA	ND
sec-Butylbenzene[5]	ND	ND	NA	NA	NA	ND	ND	ND	NA	NA	NA	ND
Chloroform	5.4	2.2 J	<3	NA	NA	ND	ND	ND	<3	NA	NA	ND
1,2-Dichloroethane	ND	ND	<3	<5	<1	ND	5.1	ND	<3	<5	<1	ND
1,2-Dichloropropane	ND	ND	<3	NA	NA	ND	ND	ND	<3	NA	NA	ND
Ethylbenzene	ND	ND	<3	NA	NA	ND	ND	ND	<3	NA	NA	ND
Isopropylbenzene[5]	ND	ND	NA	NA	NA	ND	ND	ND	NA	NA	NA	ND
Naphthalene[5]	ND	ND	NA	NA	NA	ND	ND	ND	NA	NA	NA	ND
Toluene	ND	ND	<3	NA	NA	ND	ND	ND	<3	NA	NA	ND
Metals[2] (µg/L)												
Arsenic	ND	ND	7.7 B (J)	5.9 B	11.1	6.9 J	ND	ND	5.1 B (J)	4.3 B	<10	7.1 J
Barium	ND	22	18.0 B (J)	14.1	12.3	17.2 J	ND	25	24.8 B (J)	26.1	34.3	41.2 J
Cadmium	ND	ND	<0.3	NA	NA	NA	ND	ND	<0.3	NA	NA	NA
Chromium	ND	ND	<0.6	NA	NA	NA	ND	ND	<0.6	NA	NA	NA
Iron	ND	ND	<21	<1,000	<200	1,500 U	ND	ND	<21	13.0 B	<200	824
Lead	82	ND	<1.5	<10 (UJ)	NA	NA	72	ND	<1.5	<10 (UJ)	NA	NA
Manganese	ND	ND	0.4 B	44.9 (J)	7.46 J	**225**	ND	260	**235**	4.4 B (J)	21.3	**255**
Selenium	ND	ND	2.7 B (J)	NA	NA	48 U	ND	ND	2.9 B (J)	NA	NA	96 U
Silver	ND	ND	<0.5	NA	NA	NA	ND	ND	<0.5	NA	NA	NA
Organochlorine Pesticides[3] (µg/L)												
4,4'-DDD	ND	ND	<0.1	NA	NA	NA	ND	ND	<0.1	NA	NA	NA
4,4'-DDE	ND	ND	<0.1	NA	NA	NA	ND	ND	<0.1	NA	NA	NA
gamma-Chlordane	NA	NA	<0.05	NA	NA	NA	NA	NA	<0.05	NA	NA	NA
Endosulfan sulfate	ND	ND	<0.1	NA	NA	NA	ND	ND	<0.1	NA	NA	NA
Heptachlor epoxide	ND	ND	<0.05	NA	NA	NA	0.04	ND	<0.05	NA	NA	NA
Filterable Residue (mg/L)												
TDS[6]	NA	NA	NA	NA	NA	**6,610**	NA	NA	NA	NA	NA	**2,510**

Notes:

[1] Unless otherwise reported, no VOCs were detected using EPA Method 8260B.
(EPA Method 8260A was used to analyze for VOCs in the 1995 and 1997 programs.)

[2] Unless otherwise reported, no metals were detected using EPA Methods 6010B & 7470A.
(EPA Methods 6010 & 7000 were used to analyze for metals in the 1995 and 1997 programs.)

[3] Unless otherwise reported, no organochlorine pesticides were detected using EPA Method 8081A.
(EPA Method 8080A was used to analyze for organochlorine pesticides in the 1995 and 1997 programs.)

[4] Upgradient monitoring well

[5] Organic analyte not included in EPA Method 8260B

[6] Total Dissolved Solids (TDS) were analyzed using EPA Method 160.1

CRDL - Contract-Required Detection Limit
IDL - Instrument Detection Limit
NA - Not analyzed
ND - Not detected at or above method reporting limit
NS - Not Sampled
VOCs - Volatile organic compounds
µg/L - Micrograms per liter
mg/L - Milligrams per liter

Laboratory Qualifiers--assigned as a result of laboratory data assessment procedures
B - Value less than CRDL but greater than or equal to IDL
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J - Estimated value; less than CRDL but greater than or equal to IDL
P - Results of dual-column GC technique differ by more than 25%; value is the lower of the two

EPA Qualifiers--assigned as a result of independent data validation
(J) - Estimated value based on QC criteria
(UJ) - Estimated non-detect based on QC criteria

2003/2005 Validation Qualifiers
J - Estimated value detected less than the CRDL but greater than the reporting limit.
U - Compound was analyzed for but not detected. Analyte result was below the CRDL.
UJ - Estimated as a non-detect at the detection limit.

Bold values indicate analytes above New Mexico Groundwater Quality Standards.

Table 5-2. Summary of Analytical Results from the 1995, 1997, 1999, 2001, 2003 and 2005 Long-Term Monitoring Programs at SD-08

Well Number	MW-08-06					
Sampling Date	Aug-95	Sep-97	Sep-99	Sep-01	Apr-03	Dec-05
VOCs[1] (µg/L)						
Acetone	NS	NS	NS	NS	NS	NS
Benzene	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NS	NS	NS	NS	NS	NS
Bromoform	NS	NS	NS	NS	NS	NS
sec-Butylbenzene[5]	NS	NS	NS	NS	NS	NS
Chloroform	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	NS	NS	NS	NS	NS	NS
Ethylbenzene	NS	NS	NS	NS	NS	NS
Isopropylbenzene[5]	NS	NS	NS	NS	NS	NS
Naphthalene[5]	NS	NS	NS	NS	NS	NS
Toluene	NS	NS	NS	NS	NS	NS
Metals[2] (µg/L)						
Arsenic	NS	NS	NS	NS	NS	NS
Barium	NS	NS	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS	NS	NS
Chromium	NS	NS	NS	NS	NS	NS
Iron	NS	NS	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS	NS
Manganese	NS	NS	NS	NS	NS	NS
Selenium	NS	NS	NS	NS	NS	NS
Silver	NS	NS	NS	NS	NS	NS
Organochlorine Pesticides[3] (µg/L)						
4,4'-DDD	NS	NS	NS	NS	NS	NS
4,4'-DDE	NS	NS	NS	NS	NS	NS
gamma-Chlordane	NS	NS	NS	NS	NS	NS
Endosulfan sulfate	NS	NS	NS	NS	NS	NS
Heptachlor epoxide	NS	NS	NS	NS	NS	NS
Filterable Residue (mg/L)						
TDS[6]	NS	NS	NS	NS	NS	**20,300**

Notes:

[1] Unless otherwise reported, no VOCs were detected using EPA Method 8260B.
(EPA Method 8260A was used to analyze for VOCs in the 1995 and 1997 programs.)

[2] Unless otherwise reported, no metals were detected using EPA Methods 6010B Trace & 7470A.
(EPA Methods 6010 & 7000 were used to analyze for metals in the 1995 and 1997 programs.)

[3] Unless otherwise reported, no organochlorine pesticides were detected using EPA Method 8081A.
(EPA Method 8080A was used to analyze for organochlorine pesticides in the 1995 and 1997 programs.)

[4] Upgradient monitoring well

[5] Organic analyte not included in EPA Method 8260B.

[6] Total Dissolved Solids (TDS) were analyzed using EPA Method 160.1

CRDL - Contract-required Detection Limit
IDL - Instrument Detection Limit
NA - Not analyzed
ND - Not detected at or above method reporting limit
NS - Not Sampled
VOCs - Volatile organic compounds
µg/L - Micrograms per liter
mg/L - Milligrams per liter

Laboratory Qualifiers--assigned as a result of laboratory data assessment procedures
B - Value less than CRDL but greater than or equal to IDL
D - Value derived from analysis of diluted sample
J - Estimated value; less than CRDL but greater than or equal to IDL
P - Results of dual-column GC technique differ by more than 25%; value is the lower of the two

EPA Qualifiers--assigned as a result of independent data validation
(J) - Estimated value based on QC criteria
(UJ) - Estimated non-detect based on QC criteria

2003/2005 Validation Qualifiers
J - Estimated value detected less than the CRDL but greater than the reporting limit.
U - Compound was analyzed for but not detected. Analyte result was below the CRDL.
UJ - Estimated as a non-detect at the detection limit.

Bold values indicate analytes above New Mexico Groundwater Quality Standards.

Appendix A-7

SD-08 Additional Investigation (Bhate 2006-07) and SD-08 Long Term Monitoring Reports Quarter 1 through Quarter 8 (NationView 2012-13)

A-7-1

SD-08 Additional Investigation HAFB, NM (Bhate 2006-07)

FINAL

RCRA FACILITY INVESTIGATION REPORT

BUILDING 131 WASHRACK, SITE SD-08
HOLLOMAN AFB, NEW MEXICO

Prepared For:

49 CES/CEV
Holloman Air Force Base
New Mexico

Under Contract To:

U.S. Army Corps of Engineers
Omaha, Nebraska

July 2007

Contract No.: DACA45-03-D-0023D
Task Order No.: 21
Bhate Project No.: 9050361.01.04

Prepared By:

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ENGINEERING, SCIENCE AND CONSTRUCTION
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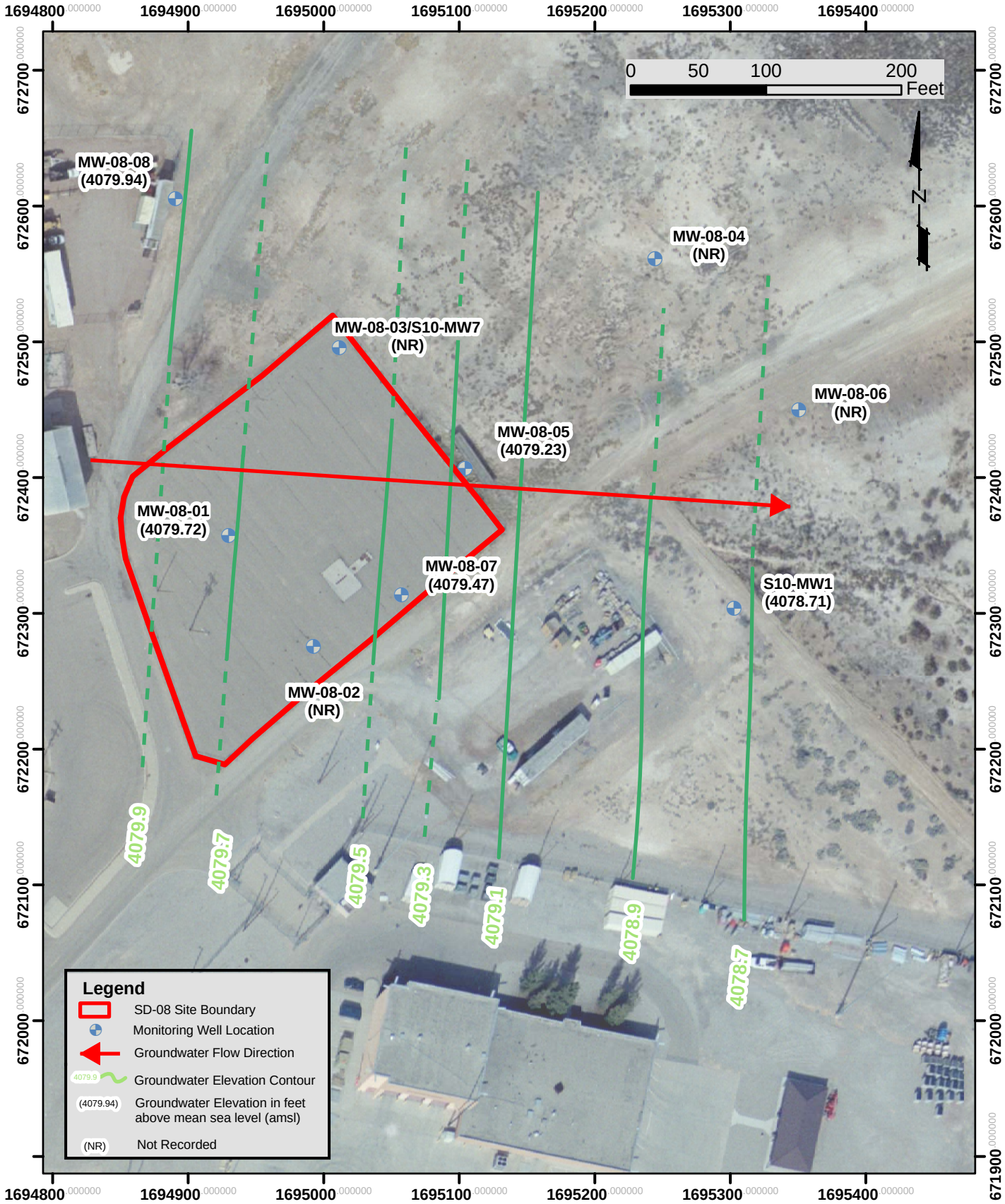
Colorado • Florida • Massachusetts • New Mexico • Tennessee • Texas • Virginia
1-800-806-4001 • www.bhate.com

RESPONSIVENESS · INTEGRITY · TEAMWORK

Table 3-1
Groundwater Elevation Summary
Building 131 Washrack, Site SD-08
Holloman Air Force Base, New Mexico

Well	Northing	Easting	Elevation TOC (ft above msl)	DTW from TOC (ft below TOC)	Groundwater Elevation January 15, 2007 (ft above msl)
MW-08-01	672357.186	1694929.744	4,090.696	10.98	4,079.72
MW-08-05	672406.611	1695104.326	4,089.007	9.78	4,079.23
MW-08-07	672313.405	1695057.764	4,087.779	8.31	4,079.47
MW-08-08	673605.206	1694890.53	4,087.489	7.55	4,079.94
S10-MW1	672303.868	1695302.668	4,089.448	10.74	4,078.71

Notes:
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level



bhate associates
ENGINEERING, SCIENCE AND CONSTRUCTION

Potentiometric Surface Map (January 2007)

PROJECT NO.	SCALE	DATE	DRAWN BY:
9050361	Shown	3/30/07	cm
			DRAWING NO: Figure 3-1

Site SD-08
Holloman AFB, New Mexico

Figure 3-1

A-7-2

SD-08 LTM Report Quarter 1, Winter 2012, HAFB NM (NationView, 2012a)

FINAL
SD-08 LONG TERM MONITORING REPORT
QUARTER 1, WINTER 2012
HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared For:

49 CES/CEAN
Holloman Air Force Base
New Mexico

Under Contract to:

U.S. Army Corps of Engineers
Omaha District
1616 Capitol Avenue
Omaha, Nebraska 68102-1618

Contract No. W9128F-09-D-0055
Delivery Order 003

March 2012

Prepared By

1608 13th Avenue South, Suite 160
Birmingham, Alabama 35205
NationView Project No. 10-0004

Table 2
Groundwater Elevation Summary
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Well Point Number	Northing (UTM meters)	Easting (UTM meters)	Elevation TOC (ft above msl)	DTW from TOC (ft below TOC)	Groundwater Elevation January 24, 2012 (ft above msl)
SD-08-01	3634971.461	399637.973	4088.273	13.17	4075.103
SD-08-02	3634945.696	399658.149	4088.726	14.43	4074.296
SD-08-03	3635013.345	399663.352	4087.971	12.92	4075.051
SD-08-04	3635032.485	399734.579	4085.64	10.78	4074.860
SD-08-05	3634985.891	399691.393	4086.543	11.64	4074.903
SD-08-06	3634998.18	399766.517	4084.648	10.23	4074.418
SD-08-07	3634957.67	399676.883	4085.403	10.53	4074.873
SD-08-08	3635047.194	399626.968	4085.072	9.8	4075.272
MW-09-01	3634977.965	399479.072	4085.437	9.53	4075.907
S10-MW1	3634953.884	399751.455	4086.882	12.68	4074.202
S10-MW2	3634860.324	399609.385	4088.499	13.61	4074.889
SWMU183-MW03	3634908.694	399645.623	4086.261	11.44	4074.821

Notes:
UTM = Universal Transverse Mercator
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level

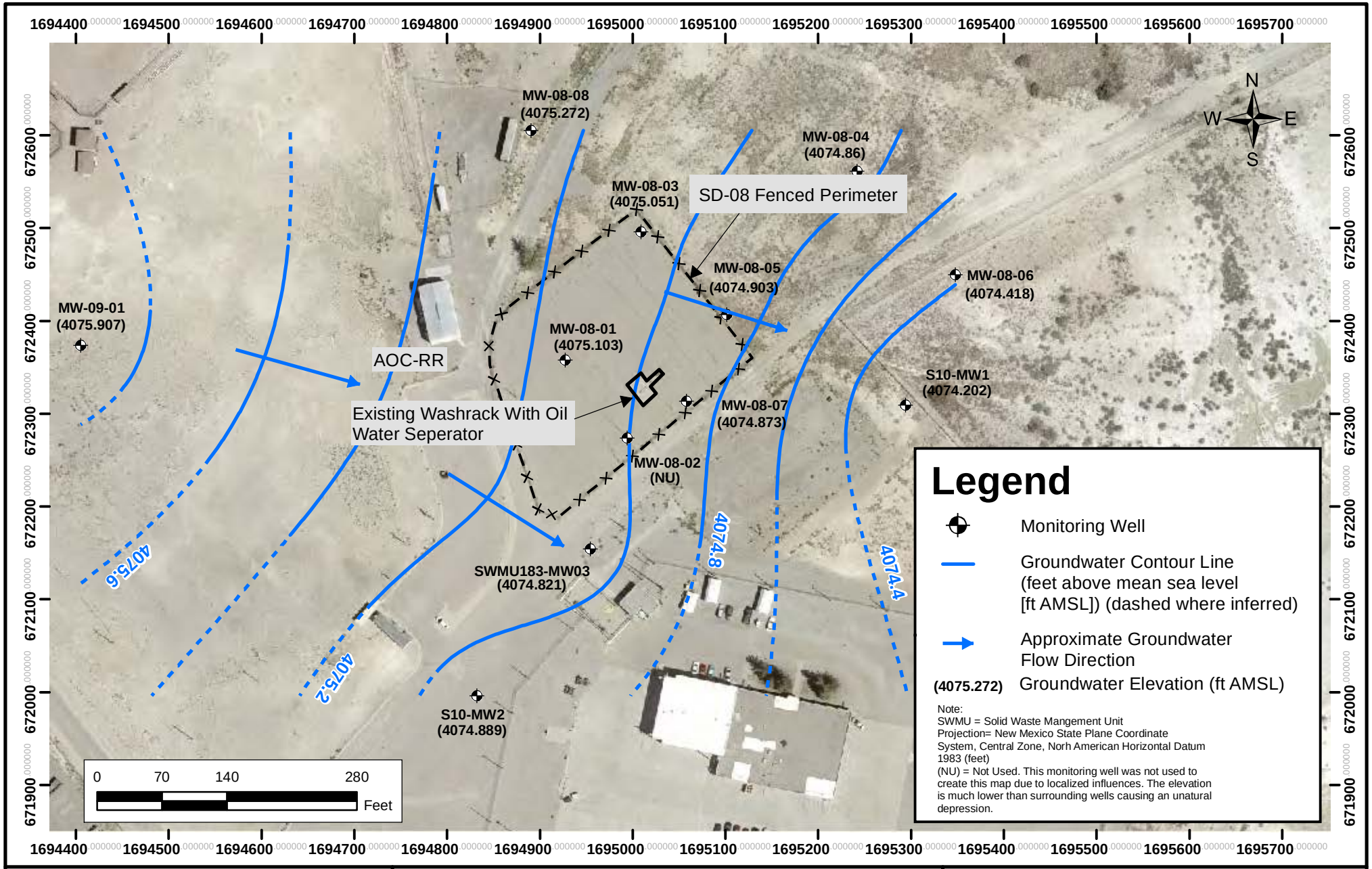
Table 3
Groundwater Analytical Data (January 2012)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	Groundwater Screening Levels		Basewide Background			MW-08-01			MW-08-01A			MW-08-02			MW-08-03			MW-08-04			MW-08-05			MW-08-06			MW-08-07			MW-08-08		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater [4]	Total Groundwater Background Level[4]	21201280806			21201280807			21201280808			21201280804			21201261603			21201280801			21201261601			21201280805			21201261602		
Date Sampled:						1/26/2012			1/26/2012			1/26/2012			1/25/2012			1/25/2012			1/25/2012			1/24/2012			1/26/2012			1/25/2012		
Analyte						Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (8260B)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
1,2-Dichloroethane	10	5	NV	NV	NV	**44.4**			**40.6**			**7.82**			0.121	U		0.121	U		0.121	U		0.121	U		**34.3**			0.121	U	
1,2-Dichloropropane	NV	5	NV	NV	NV	**6.49**			**6.13**			0.114	U		0.114	U		0.114	U		0.114	U		0.114	U		0.783	J		0.114	U	
Acetone	NV	NV	NV	NV	NV	9.67		J	10.4		J	0.322	U		0.322	U		0.322	U		0.322	U		0.322	U		0.322	U		0.322	U	
Benzene	10	5	NV	NV	NV	0.513	J		0.559	J		0.26	J		0.049	U		0.049	U		0.049	U		0.049	U		0.049	U		0.049	U	
Chloroform	100	NV	NV	NV	NV	0.062	U		0.062	U		0.062	U		0.89	J		0.062	U		0.062	U		0.062	U		0.062	U		0.062	U	
Naphthalene	30	NV	NV	NV	NV	0.175	U		0.175	U		0.175	U		1.15	J		0.175	U		2.49	J		0.175	U		0.655	J		0.175	U	
sec-Butylbenzene	NV	NV	NV	NV	NV	0.924	J		0.741	J		0.088	U		0.088	U		0.088	U		0.088	U		0.088	U		0.088	U		0.088	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	1.01	J		1	J		0.475	J		0.058	U		0.058	U		0.058	U		0.058	U		0.058	U		0.058	U	
Dissolved TAL Metals Analysis	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Aluminum	5000	NV	54	54.00	NV	24	U		24	U		160	J		24	U		120	J		24	U		24.00	U		24	U		47	U	
Antimony	NV	NV	6	10.00	NV	4	U		4	U		4	U		4	U		4	U		4	U		4.00	U		4	U		8.7	J	
Arsenic	100	NV	10	28.53	NV	5.2	J		5	J		26			14			3.5	U		5.8	J		12			48			10	J	
Barium	1000	NV	30.2	30.13	NV	11			11			13			5.1	J		10			16			6.00	J		12			9.1	J	
Cadmium	10	NV	2.5	2.41	NV	2.9	J		2.9	J		2.1	J		2.4	J		0.1	U		1.8	J		1.10	J		2.2	J		0.21	U	
Calcium	NV	NV	1151302	1151301.20	NV	491000			501000			606000			593000			498000			611000			544000.00			676000			623000		
Chromium	50	NV	2.5	2.50	NV	0.34	U		0.34	U		1.1	J		0.46	J		1.3	J		0.59	J		0.34	U		1.2	J		0.88	J	
Cobalt	50	NV	2.6	2.60	NV	0.52	U		0.52	U		2.5	J		0.52	U		0.52	U		0.62	J		0.52	U		3.1	J		1	U	
Copper	1000	NV	22	57.46	NV	1.7	U		1.7	U		4.7	J		2	J		5.8	J		8.4	J		1.70	U		4	J		3.4	U	
Iron	1000	NV	65.6	65.56	NV	**7380**			**7560**			520			27	U		27	U		74	J		27.00	U		27	U		53	U	
Magnesium	NV	NV	3630927	3630926.70	NV	599000			615000			161000			660000			279000			48000			852000.00			200000			1330000		
Manganese	200	NV	50	118.65	NV	**2550**			**2600**			**1030**			0.83	U		0.83	U		33			0.83	U		**1330**			**240**		
Nickel	200	NV	15.9	15.89	NV	0.84	U		0.84	U		3.6	J		3.1	J		1	J		0.98	J		0.84	U		6.1	J		1.7	U	
Potassium	NV	NV	120479.98	120479.98	NV	6370			6270			3570			21400			22100			6400			31300.00			5850			46800		
Sodium	NV	NV	19972499	19972499.00	NV	1920000			1950000			90500			2370000			836000			20400			5140000.00			366000			7100000		
Vanadium	NV	NV	73.8	73.73	NV	1.2	U		1.2	U		21			1.8	J		44			31			1.20	U		35			2.5	U	
Mercury	2	NV	0.2	0.20	NV	0.075	U		0.075	U		0.1	J		0.075	U		0.075	U		0.075	U		0.075	U		0.075	U		0.075	U	
Total TAL Metals Analysis	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Aluminum	NV	50 [6]	1043	NV	1042.43	**110**	J		**120**	J		**170**	J		**310**			**110**	J		24	U		100	J		40	J		47	U	
Arsenic	NV	10	10	NV	25.93	6.6	J		6.8	J		**23**			9.8	J		3.5	U		7.6	J		8.5	J		**47**			7	U	
Barium	NV	2000	38	NV	38.00	12			12			13			5.8	J		9.5	J		17			6.6	J		14			7.2	J	
Cadmium	NV	5	5	NV	8.80	2.7	J		2.8	J		1.9	J		2.4	J		0.12	J		1.9	J		0.88	J		2.1	J		0.71	J	
Calcium	NV	NV	1136664	NV	1136663.50	481000			497000			614000			610000			460000			648000			517000			653000			676000		
Chromium	NV	100	12	NV	12.00	0.4	J		0.34	U		0.34	U		1.1	J		1.4	J		0.69	J		0.34	U		1.3	J		0.67	U	
Cobalt	50	NV	36	NV	36.00	0.52	U		0.52	U		1.8	J		0.52	U		0.52	U		0.71	J		0.52	U		4.1	J		1	U	
Copper	NV	1300	9.8	NV	9.80	1.7	U		1.7	U		4.4	J		3.1	J		5.5	J		7.3	J		1.7	U		3	J		3.4	U	
Iron	NV	300 [6]	300	NV	1306.82	**8480**			**8630**			**900**			27	U		91	J		**960**			110			27	U		53	U	
Magnesium	NV	NV	3692782	NV	3692781.50	587000			608000			163000			662000			255000			52200			808000			194000			1550000		
Manganese	NV	50 [6]	50	NV	745.38	**2480**			**2560**			**1050**			0.83	U		2.4	J		42			0.83	U		**1730**			**190**		
Nickel	200	NV	22	NV	21.97	0.84	U		0.84	U		0.94	J		2.4	J		0.84	U		1	J		0.84	U		6	J		1.7	U	
Potassium	NV	NV	212144	NV	212143.56	5940			6100			3530			21600			21100			6900			30900			5450			44800		
Sodium	NV	NV	20989585	NV	20989585.00	1900000			1890000			90000			2400000			801000			21600			4870000			346000			8080000		
Vanadium	NV	NV	90	NV	90.02	1.2	U		1.2	U		23			3.7	J		45			30			1.2	U		36			2.5	U	
Zinc	NV	5000 [6]	17	NV	16.95	5.9	U		5.9	U		11	J		5.9	U		5.9	U		5.9	U		5.9	U		5.9	U		12	U	
Mercury	2	NV	0.5	NV	0.44	0.075	U		0.075	U		0.1	J		0.075	U		0.075	U		0.075	U		0.075	U		0.075	U		0.075	U	
General Chemistry	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Chloride	250	250 [6]	35040	NV	35039.73	**614**			**627**			73.1			**4030**			**477**			27.7			**6710**			**436**			**13500**		
Fluoride	2	4	NV	NV	NV	**5.63**			**5.78**			**7.31**			**2.95**			**2.26**			**5.35**			**3.09**			**4.66**			8.6	U	
Nitrate (USEPA 300)	10	10	NV	NV	NV	1.56	U		1.56	U		0.09	J		**16.6**			4.97	J		0.787		J	**19.4**			2.36	J		**37.8**	J	
Sulfate (USEPA 300)	600	250 [6]	17419	NV	17418.99	**6250**			**6260**			**2160**			**4890**			**3550**			**1800**			**8170**			**2230**			**8900**		
Solids, Total Dissolved (SM 2540 C)	1000	500 [6]	NV	NV	65956.58	**9580**			**9720**			**3270**			**11800**			**5060**			**2580**			**19900**			**3840**			**33600**		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Total Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Laboratory Qualifier
Q1 = Chemist Qualifier
U = Not detected
J = Indicates an estimated value
NMED = New Mexico Environmental Department

Notes:
Table presents analytes that have been detected during the January 2012 sampling event.

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Tables 2 and 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] USEPA Secondary Drinking Water Standard
Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED approved Basewide Background Level
Indicates analytical results above the NMED approved Basewide Background Level , but below the New Mexico Groundwater Quality Standard, or USEPA MCL



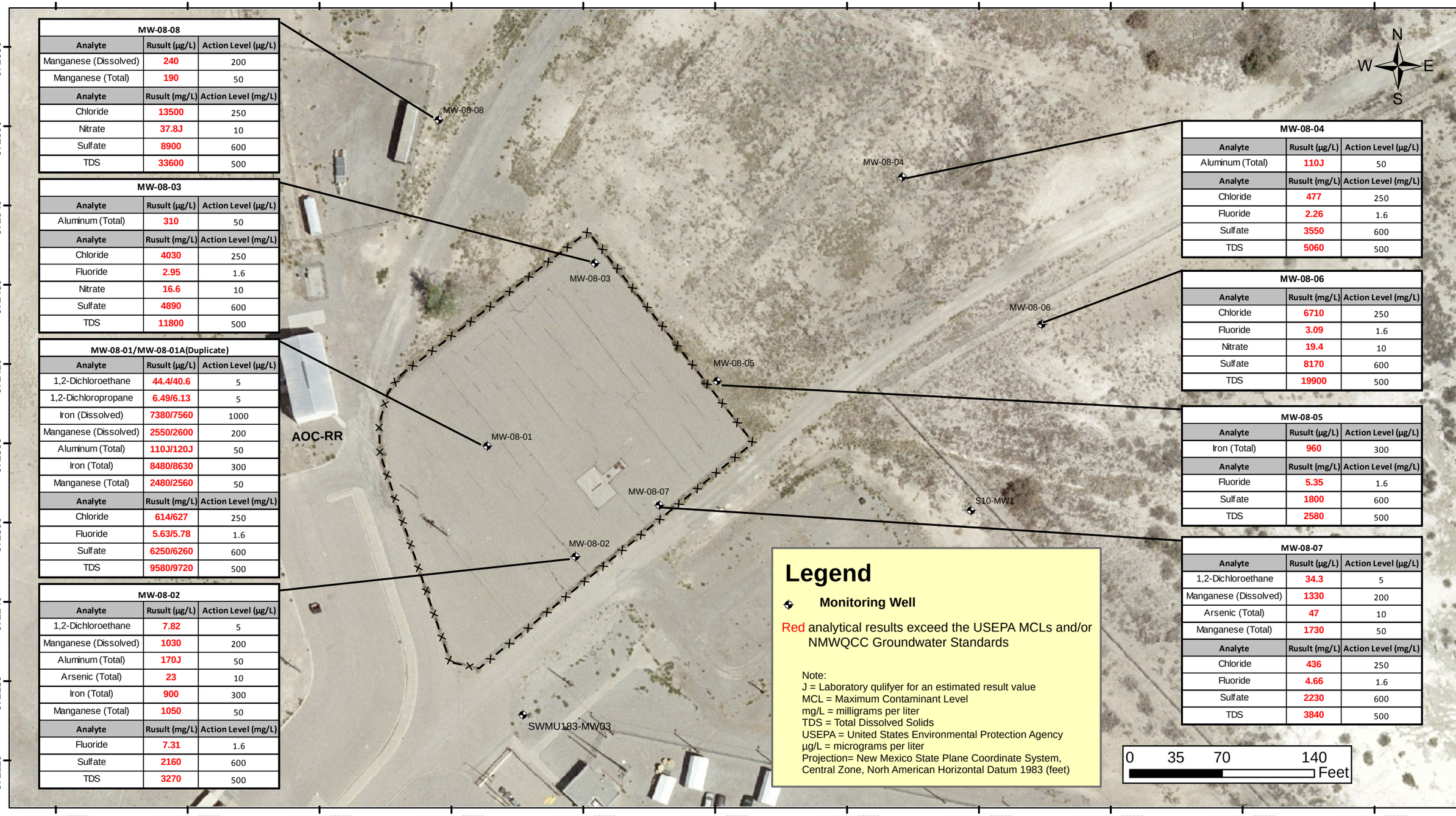
NATIONVIEW

Site SD-08
Potentiometric Map

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
10-0004	1in = 140ft	3/16/2012	WB
			DRAWING NO: 5

Site SD-08
Long Term Monitoring Report
Quarter 1, Winter 2012
Holloman Air Force Base, New Mexico

Figure 5



MW-08-08		
Analyte	**Rusult (µg/L)**	**Action Level (µg/L)**
Manganese (Dissolved)	240	200
Manganese (Total)	190	50
Analyte	**Rusult (mg/L)**	**Action Level (mg/L)**
Chloride	13500	250
Nitrate	37.8J	10
Sulfate	8900	600
TDS	33600	500

MW-08-03		
Analyte	**Rusult (µg/L)**	**Action Level (µg/L)**
Aluminum (Total)	310	50
Analyte	**Rusult (mg/L)**	**Action Level (mg/L)**
Chloride	4030	250
Fluoride	2.95	1.6
Nitrate	16.6	10
Sulfate	4890	600
TDS	11800	500

MW-08-01/MW-08-01A(Duplicate)		
Analyte	**Rusult (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	44.4/40.6	5
1,2-Dichloropropane	6.49/6.13	5
Iron (Dissolved)	7380/7560	1000
Manganese (Dissolved)	2550/2600	200
Aluminum (Total)	110J/120J	50
Iron (Total)	8480/8630	300
Manganese (Total)	2480/2560	50
Analyte	**Rusult (mg/L)**	**Action Level (mg/L)**
Chloride	614/627	250
Fluoride	5.63/5.78	1.6
Sulfate	6250/6260	600
TDS	9580/9720	500

MW-08-02		
Analyte	**Rusult (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	7.82	5
Manganese (Dissolved)	1030	200
Aluminum (Total)	170J	50
Arsenic (Total)	23	10
Iron (Total)	900	300
Manganese (Total)	1050	50
Analyte	**Rusult (mg/L)**	**Action Level (mg/L)**
Fluoride	7.31	1.6
Sulfate	2160	600
TDS	3270	500

MW-08-04		
Analyte	**Rusult (µg/L)**	**Action Level (µg/L)**
Aluminum (Total)	110J	50
Analyte	**Rusult (mg/L)**	**Action Level (mg/L)**
Chloride	477	250
Fluoride	2.26	1.6
Sulfate	3550	600
TDS	5060	500

MW-08-06		
Analyte	**Rusult (mg/L)**	**Action Level (mg/L)**
Chloride	6710	250
Fluoride	3.09	1.6
Nitrate	19.4	10
Sulfate	8170	600
TDS	19900	500

MW-08-05		
Analyte	**Rusult (µg/L)**	**Action Level (µg/L)**
Iron (Total)	960	300
Analyte	**Rusult (mg/L)**	**Action Level (mg/L)**
Fluoride	5.35	1.6
Sulfate	1800	600
TDS	2580	500

MW-08-07		
Analyte	**Rusult (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	34.3	5
Manganese (Dissolved)	1330	200
Arsenic (Total)	47	10
Manganese (Total)	1730	50
Analyte	**Rusult (mg/L)**	**Action Level (mg/L)**
Chloride	436	250
Fluoride	4.66	1.6
Sulfate	2230	600
TDS	3840	500

Legend

Monitoring Well

Red analytical results exceed the USEPA MCLs and/or NMWQCC Groundwater Standards

Note:
J = Laboratory qulifyer for an estimated result value
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
TDS = Total Dissolved Solids
USEPA = United States Environmental Protection Agency
µg/L = micrograms per liter
Projection= New Mexico State Plane Coordinate System, Central Zone, Norh American Horizontal Datum 1983 (feet)

NATIONVIEW

Site SD-08 Groundwater Analytical Results Above Action Levels

PROJECT NO:	SCALE:	DATE:	DRAWN BY
10-0004	1" = 70'	3/14/2012	WB
			DRAWING NO: 6

SD-08 Long Term Monitoring Report
Quarter 1, Winter 2012
Holloman Air Force Base, New Mexico
Figure 6

A-7-3

SD-08 LTM Report Quarter 2, Spring 2012, HAFB, NM (NationView, 2012b)

FINAL
SD-08 LONG TERM MONITORING REPORT
QUARTER 2, SPRING 2012
HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared For:

49 CES/CEAN
Holloman Air Force Base
New Mexico

Under Contract to:

U.S. Army Corps of Engineers
Omaha District
1616 Capitol Avenue
Omaha, Nebraska 68102-1618

Contract No. W9128F-09-D-0055
Delivery Order 003

June 2012

Prepared By

1608 13th Avenue South, Suite 160
Birmingham, Alabama 35205
NationView Project No. 10-0004

Table 4-1
Groundwater Elevation Summary (April 2012)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Well Point Number	Northing (UTM meters)	Easting (UTM meters)	Elevation TOC (ft above msl)	April 24, 2012 DTW from TOC (ft below TOC)	Groundwater Elevation April 24, 2012 (ft above msl)
MW-08-01	3634971.461	399637.973	4088.273	13.43	4074.843
MW-08-02	3634945.696	399658.149	4088.726	14.21	4074.516
MW-08-03	3635013.345	399663.352	4087.971	13.27	4074.701
MW-08-04	3635032.485	399734.579	4085.640	11.32	4074.320
MW-08-05	3634985.891	399691.393	4086.543	12.04	4074.503
MW-08-06	3634998.18	399766.517	4084.648	10.73	4073.918
MW-08-07	3634957.67	399676.883	4085.403	10.82	4074.583
MW-08-08	3635047.194	399626.968	4085.072	9.99	4075.082
MW-09-01	3634977.965	399479.072	4085.437	9.72	4075.717
S10-MW01	3634953.884	399751.455	4086.882	13.12	4073.762
S10-MW02	3634860.324	399609.385	4088.499	13.90	4074.599
SWMU183-MW03	3634908.694	399645.623	4086.261	11.67	4074.591

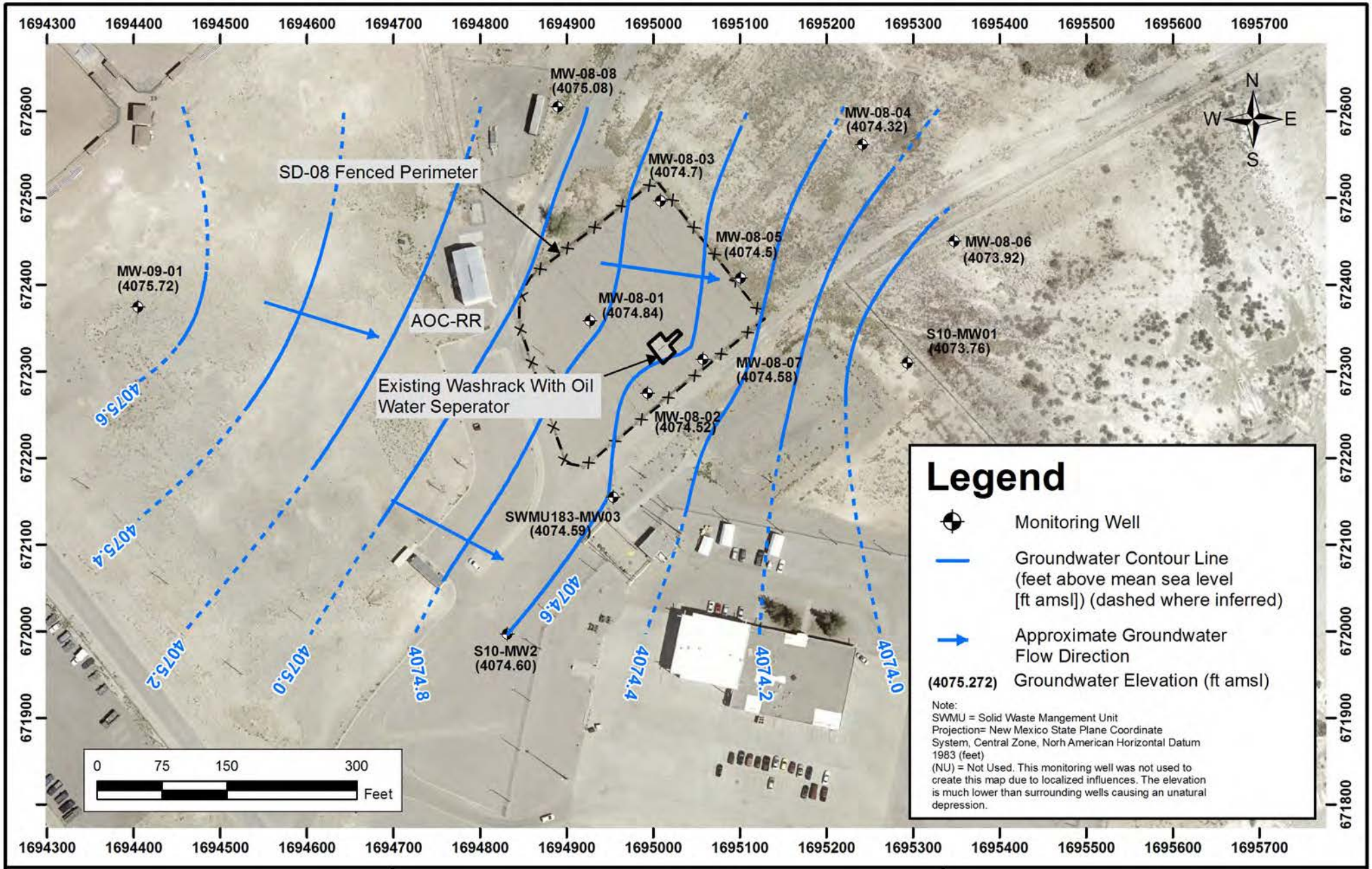
Notes:
UTM = Universal Transverse Mercator
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level

Table 5-1
Groundwater Analytical Data (April 2012)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	Groundwater Screening Levels		Basewide Background			MW-08-01			MW-08-01A			MW-08-02			MW-08-03			MW-08-04			MW-08-05			MW-08-06			MW-08-07			MW-08-08			S10-MW01			SWMU183-MW03		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	Total Metals in Groundwater UTL [4]	21204270901			21204270902			21204270903			21204270904			21204270905			21204270906			21204270907			21204270908			21204270909			21204270910			21204270911		
Date Sampled:						4/25/2012			4/25/2012			4/25/2012			4/25/2012			4/24/2012			4/24/2012			4/24/2012			4/25/2012			4/24/2012			4/25/2012			4/25/2012		
Analyte							Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (8260B)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
1,2-Dichloroethane	10	5	NV	NV	NV	**28.3**			**27.6**			**11.2**			0.119	U		0.119	U		4.61	J		0.119	U		**52.5**			0.119	U		**15.2**			0.119	U	
1,2-Dichloropropane	NV	5	NV	NV	NV	**5.47**			**5.62**			0.15	U		0.15	U		0.15	U		0.15	U		0.15	U		0.915	J		0.15	U		0.15	U		0.15	U	
2-Butanone	NV	NV	NV	NV	NV	37.1			35.4			0.362	U		0.362	U		0.362	U		0.362	U		0.362	U		0.362	U		0.362	U		0.362	U		0.362	U	
Acetone	NV	NV	NV	NV	NV	71.7		J	49.2	J	J	2.60	J	J	2.25	J	J	1.23	J	J	0.759	J	J	1.51	J	J	1.70	J	J	1.01	J	J	0.587	J	J	1.62	J	J
Benzene	10	5	NV	NV	NV	0.332	J		0.438	J		0.211	J		0.099	U		0.099	U		0.099	U		0.099	U		0.099	U		0.099	U		0.099	U		0.099	U	
Chloroform	100	NV	NV	NV	NV	0.109	U		0.109	U		0.109	U		0.937	J		0.109	U		0.109	U		0.504	J		0.109	U		0.435	J		0.109	U		0.109	U	
Trichloroethene	100	5	NV	NV	NV	0.151	U		0.151	U		0.151	U		0.151	U		0.151	U		0.151	U		0.151	U		0.151	U		0.151	U		0.581	J		0.151	U	
sec-Butylbenzene	NV	NV	NV	NV	NV	3.21	J		3.18	J		0.111	U		0.111	U		0.111	U		0.111	U		0.111	U		0.111	U		0.111	U		0.111	U		0.111	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	3.73	J		3.76	J		0.097	U		0.097	U		0.097	U		0.097	U		0.097	U		0.097	U		0.097	U		0.097	U		0.097	U	
Dissolved TAL Metals Analysis (6010B/7470A)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Arsenic	100	NV	10	28.53	NV	7	U		7	U		13	J		7	U		7	U		7	U		7	U		29			7	U		7	U		7	U	
Barium	1,000	NV	30.2	30.13	NV	9.9	J		9.1	J		9.3	J		4.4	J		8.0	J		14			5.9	J		10	J		9.3	J		7.5	J		8.8	J	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	470,000			453,000			557,000			512,000			456,000			570,000			476,000			584,000			620,000			471,000			531,000		
Cobalt	50	NV	2.6	2.60	NV	1	U		1	U		1	U		1	U		1	U		1	U		1	U		1.4	J		1.9	J		1	U		1	U	
Copper	1,000	NV	22	57.46	NV	3.4	U		3.4	U		3.4	U		3.4	U		3.4	U		3.4	U		3.4	U		3.4	U		7.6	J		3.4	U		3.4	U	
Iron	1,000	NV	65.6	65.56	NV	**5,330**			**5,340**			330			53	U		53	U		53	U		53	U		53	U		53	U		53	U		53	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	590,000			570,000			152,000			533,000			245,000			55,100			768,000			176,000			1,310,000			458,000			201,000		
Manganese	200	NV	50	118.65	NV	**1,850**			**1,790**			**800**			1.7	U		1.7	U		24			1.7	U		**1370**			**220**			**240**			**820**		
Nickel	200	NV	15.9	15.89	NV	1.7	U		1.7	U		1.7	U		1.7	U		1.7	U		1.7	U		1.7	U		2.0	J		1.7	U		1.7	U		1.7	U	
Potassium	NV	NV	120,480	120,479.98	NV	4,420			4,580			3,030			16,400			16,600			6,260			21,700			4,820			41,100			14,800			5,910		
Silver	50	NV	10	10.00	NV	3.4	J	J	6	J	J	3.6	J		7.2	J		7.7	J		3.9	J		5.0	J		5.4	J		9.1	J		1.3	U		4.6	J	
Sodium	NV	NV	19,972,499	19,972,499.00	NV	1,620,000			1,590,000			114,000			1,850,000			929,000			55,800			4,050,000			524,000			6,020,000			2,020,000			1,080,000		
Vanadium	NV	NV	73.8	73.73	NV	12	J		10	J		21			63			53			16	J		54			40			47			57			30		
Mercury	NV	NV	0.2	0.200	NV	0.11	J	J	0.075	U		0.11	J	J	0.13	J	J	0.12	J	J	0.12	J	J	0.09	J	J	0.12	J	J	0.11	J	J	0.075	U		0.075	U	
Total TAL Metals Analysis (6010B/7470A)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Aluminum	NV	50 [6]	1,043	NV	1,042.43	**110**	J		**110**	J		**140**	J		**73**	J		**120**	J		**180**	J		47	U		**250**			**54**	J		47	U		**77**	J	
Antimony	NV	6	6	NV	10.00	8	U		8	U		8	U		8	U		8	U		8	U		**8.8**	J		8	U		8	U		8	U		8	U	
Arsenic	NV	10	10	NV	25.93	7	U		**15**	J		**18**	J		**11**	J		7	U		7	U		**12**	J		**39**			7.2	J		7	U		7	U	
Barium	NV	2,000	38	NV	38.00	14			15			14			7.7	J		12			19			9.3	J		16			12			8.0	J		11		
Cadmium	NV	5	5	NV	8.80	0.37	J		0.5	J		0.9	J		0.21	U		0.21	U		0.62	J		0.21	U		0.64	J		0.21	U		0.21	U		0.21	U	
Calcium	NV	NV	1,136,664	NV	1,136,663.50	455,000			484,000			597,000			606,000			469,000			610,000			539,000			630,000			676,000			520,000			547,000		
Chromium	NV	100	12	NV	12.00	3.9	J		4.1	J		1.9	J		4.9	J		2.3	J		0.72	J		4.2	J		2.8	J		2.1	J		0.67	U		2.4	J	
Cobalt	NV	NV	36	NV	36.00	1	U		1	U		2.2	J		1	U		1	U		1	U		1	U		4.4	J		1.2	J		2.7	J		1	U	
Copper	NV	1,300	9.8	NV	9.80	29			24			32			39			30			36			22			16			16			6.0	J		22		
Iron	NV	300 [6]	300	NV	1,306.82	**8,190**			**9,230**			**590**			53	U		140	J		**380**			**690**			160			53	U		260			53	U	
Magnesium	NV	NV	3,692,782	NV	3,692,781.50	608,000			602,000			162,000			651,000			264,000			72,600			922,000			185,000			1,480,000			499,000			206,000		
Manganese	NV	50 [6]	50	NV	745.38	**2,020**			**2,000**			**980**			5.5	J		2.8	J	J	**67**			1.7	U		**1,710**			**250**			**290**			**840**		
Nickel	NV	NV	22	NV	21.97	5.8	J		4.1	J		6.9	J		8.9	J		6.3	J		4.6	J		3.2	J		9.5	J		3.4	J		1.7	U		5.7	J	
Potassium	NV	NV	212,144	NV	212,143.56	6,480			6,410			3,980			24,400			18,700			8,710			32,900			6,190			50,500			15,300			7,360		
Selenium	NV	50	50	NV	129.52	7.6	U		7.6	U		7.6	U		7.6	U		7.6	U		7.6	U		7.6	U		7.6	U		9.7	J		7.6	U		8.9	J	
Silver	NV	100 [7]	10	NV	10.00	5.6	J	J	5.8	J	J	4.7	J	J	4.9	J	J	4.1	J	J	3.6	J	J	4.2	J	J	3.0	J	J	4.3	J	J	1.3	U		3.8	J	J
Sodium	NV	NV	20,989,585	NV	20,989,585.00	1,530,000			1,540,000			107,000			1,980,000			607,000			56,500			4,710,000			369,000			6,460,000			2,250,000			736,000		
Thallium	NV	2	2	NV	15.00	5.2	U		5.2	U		5.2	U		5.2	U		5.2	U		5.2	U		5.2	U		5.2	U		5.2	U		**7.4**	J		5.2	U	
Vanadium	NV	NV	90	NV	90.02	74			79			75			120			110			59			120			89			85			76			89		
Zinc	NV	5,000 [6]	17	NV	16.95	13	J		12	U		18	J		12	U		16	J		19	J		12	U		13	J		30			12	U		17	J	
Mercury	2	2	0.5	NV	0.44	0.1	J	J	0.09	J	J	0.11	J	J	0.13	J	J	0.1	J	J	0.14	J	J	0.11	J	J	0.08	J	J	0.10	J	J	0.075	U		0.14	J	J
General Chemistry	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Chloride (USEPA 300.0)	250	250 [6]	35,040	NV	35,039.73	NS			NS			NS			NS			NS			NS			NS			NS			NS			**3,330**			**930**		
Fluoride (USEPA 300.0)	1.6	4	NV	NV	NV	NS			NS			NS			NS			NS			NS			NS			NS			NS			**3.34**			**1.67**		
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	NS			NS			NS			NS			NS			NS			NS			NS			NS			5.42	J		**64.2**		J
Sulfate (USEPA 300.0)	600	250 [6]	17,419	NV	17,418.99	NS			NS			NS			NS			NS			NS			NS			NS			NS			**5,940**			**2,780**		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [6]	NV	NV	65,956.58	**10,400**			**10,700**			**3,510**			**12,300**			**6,060**			**2,850**			**19,400**			**4,020**			**29,300**			**12,900**			**5,400**		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environmental Department
UTL = Upper Tolerance Limit
TAL = Total Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier
U = Not detected
J = Indicates an estimated value

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Tables 2 and 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED approved Basewide Background Level
Indicates analytical results above the NMED approved Basewide Background Level , but but not above applicable New Mexico Groundwater Quality Standard and/or USEPA MCL



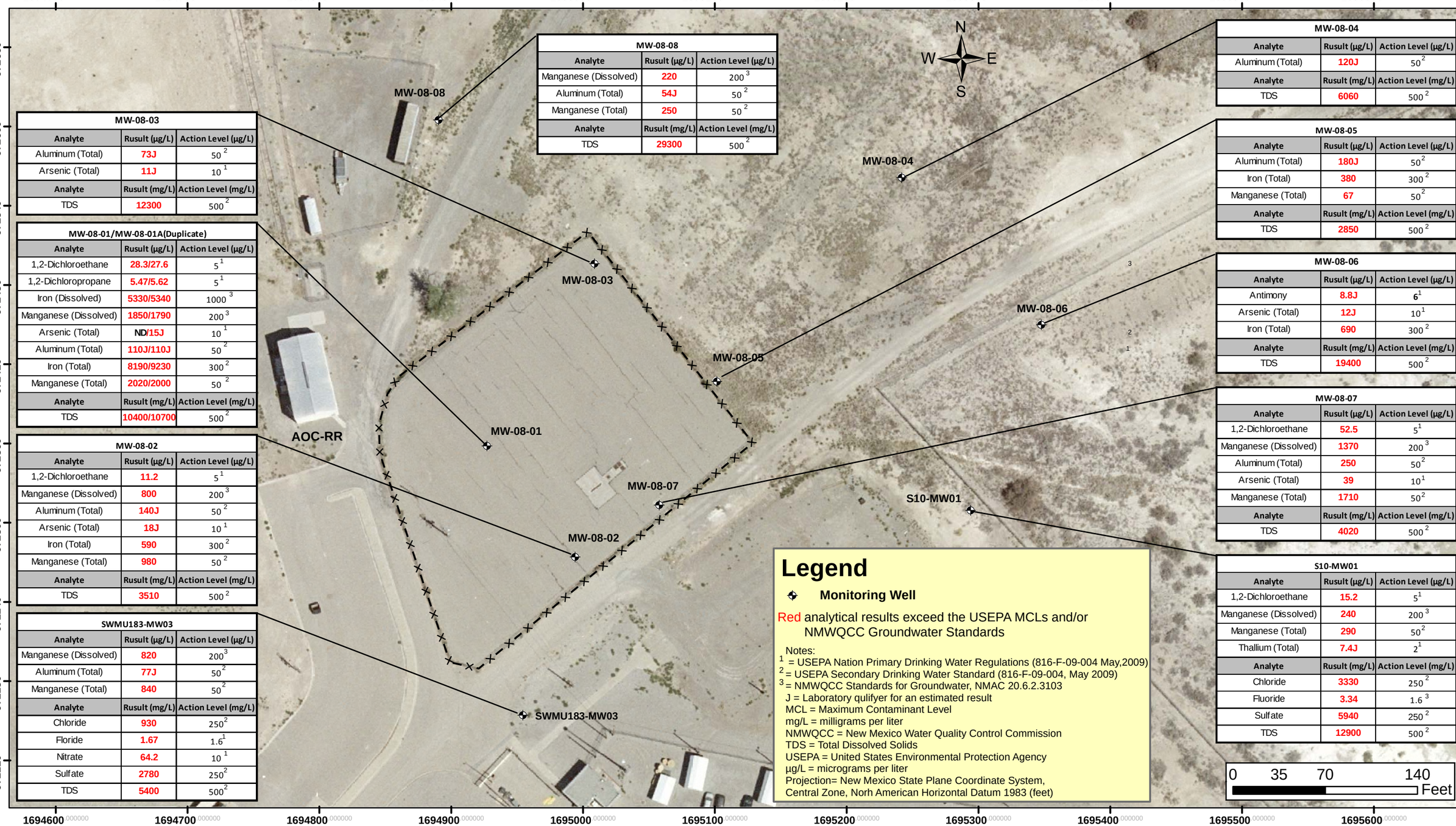
NATIONVIEW

Site SD-08
Potentiometric Map (April 2012)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
10-0004	1in = 150ft	6/07/2012	WB
			DRAWING NO: 4-1

Site SD-08
Long Term Monitoring Report
Quarter 2, Winter 2012
Holloman Air Force Base, New Mexico

Figure 4-1



MW-08-08		
Analyte	Rusult (µg/L)	Action Level (µg/L)
Manganese (Dissolved)	220	200 [3]
Aluminum (Total)	54J	50 [2]
Manganese (Total)	250	50 [2]
Analyte	Rusult (mg/L)	Action Level (mg/L)
TDS	29300	500 [2]

MW-08-04		
Analyte	Rusult (µg/L)	Action Level (µg/L)
Aluminum (Total)	120J	50 [2]
Analyte	Rusult (mg/L)	Action Level (mg/L)
TDS	6060	500 [2]

MW-08-05		
Analyte	Rusult (µg/L)	Action Level (µg/L)
Aluminum (Total)	180J	50 [2]
Iron (Total)	380	300 [2]
Manganese (Total)	67	50 [2]
Analyte	Rusult (mg/L)	Action Level (mg/L)
TDS	2850	500 [2]

MW-08-06		
Analyte	Rusult (µg/L)	Action Level (µg/L)
Antimony	8.8J	6 [1]
Arsenic (Total)	12J	10 [1]
Iron (Total)	690	300 [2]
Analyte	Rusult (mg/L)	Action Level (mg/L)
TDS	19400	500 [2]

MW-08-07		
Analyte	Rusult (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	52.5	5 [1]
Manganese (Dissolved)	1370	200 [3]
Aluminum (Total)	250	50 [2]
Arsenic (Total)	39	10 [1]
Manganese (Total)	1710	50 [2]
Analyte	Rusult (mg/L)	Action Level (mg/L)
TDS	4020	500 [2]

S10-MW01		
Analyte	Rusult (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	15.2	5 [1]
Manganese (Dissolved)	240	200 [3]
Manganese (Total)	290	50 [2]
Thallium (Total)	7.4J	2 [1]
Analyte	Rusult (mg/L)	Action Level (mg/L)
Chloride	3330	250 [2]
Fluoride	3.34	1.6 [3]
Sulfate	5940	250 [2]
TDS	12900	500 [2]

MW-08-03		
Analyte	Rusult (µg/L)	Action Level (µg/L)
Aluminum (Total)	73J	50 [2]
Arsenic (Total)	11J	10 [1]
Analyte	Rusult (mg/L)	Action Level (mg/L)
TDS	12300	500 [2]

MW-08-01/MW-08-01A(Duplicate)		
Analyte	Rusult (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	28.3/27.6	5 [1]
1,2-Dichloropropane	5.47/5.62	5 [1]
Iron (Dissolved)	5330/5340	1000 [3]
Manganese (Dissolved)	1850/1790	200 [3]
Arsenic (Total)	ND/15J	10 [1]
Aluminum (Total)	110J/110J	50 [2]
Iron (Total)	8190/9230	300 [2]
Manganese (Total)	2020/2000	50 [2]
Analyte	Rusult (mg/L)	Action Level (mg/L)
TDS	10400/10700	500 [2]

MW-08-02		
Analyte	Rusult (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	11.2	5 [1]
Manganese (Dissolved)	800	200 [3]
Aluminum (Total)	140J	50 [2]
Arsenic (Total)	18J	10 [1]
Iron (Total)	590	300 [2]
Manganese (Total)	980	50 [2]
Analyte	Rusult (mg/L)	Action Level (mg/L)
TDS	3510	500 [2]

SWMU183-MW03		
Analyte	Rusult (µg/L)	Action Level (µg/L)
Manganese (Dissolved)	820	200 [3]
Aluminum (Total)	77J	50 [2]
Manganese (Total)	840	50 [2]
Analyte	Rusult (mg/L)	Action Level (mg/L)
Chloride	930	250 [2]
Floride	1.67	1.6 [1]
Nitrate	64.2	10 [1]
Sulfate	2780	250 [2]
TDS	5400	500 [2]

Legend

Monitoring Well

Red analytical results exceed the USEPA MCLs and/or NMWQCC Groundwater Standards

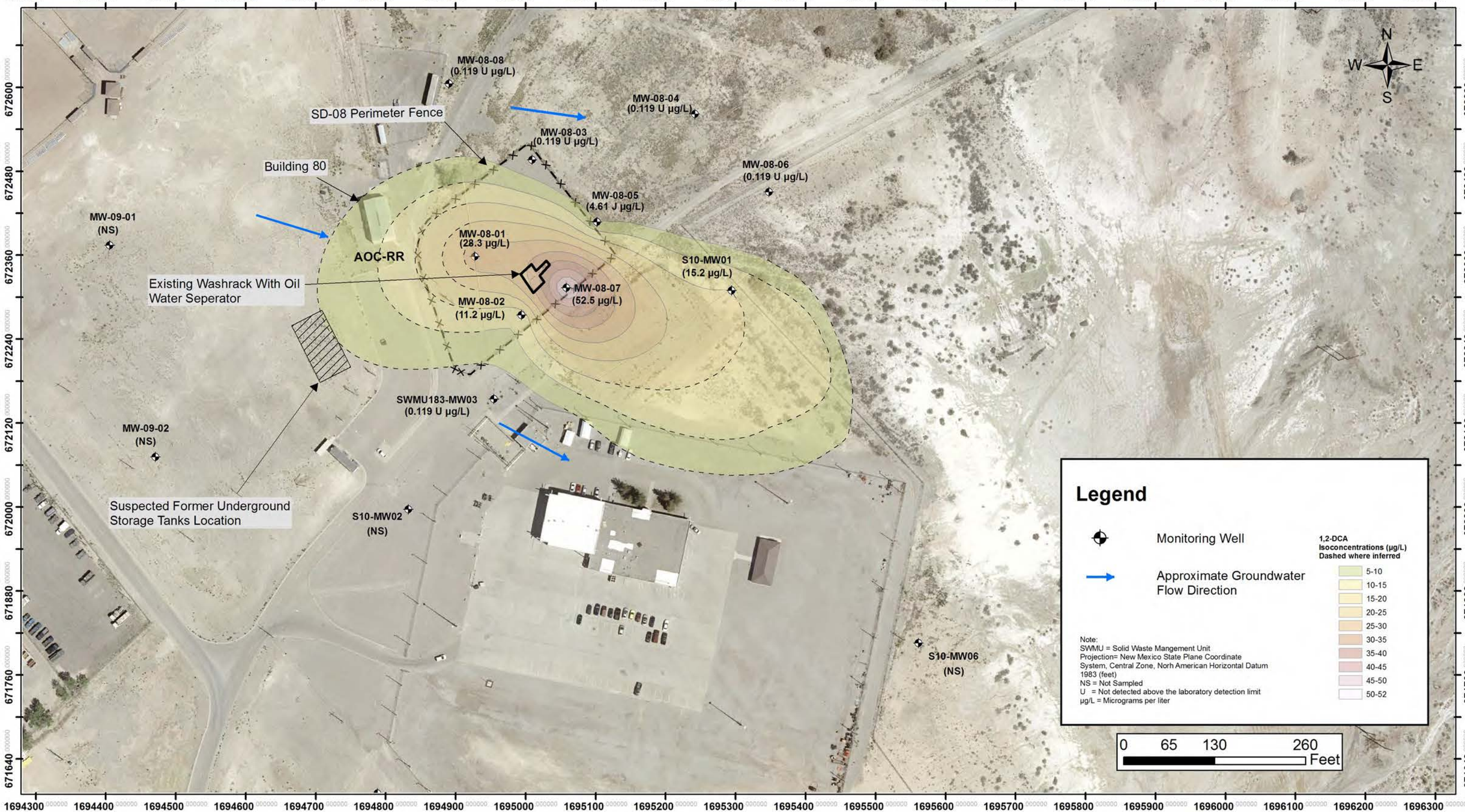
Notes:
[1] = USEPA Nation Primary Drinking Water Regulations (816-F-09-004 May,2009)
[2] = USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[3] = NMWQCC Standards for Groundwater, NMAC 20.6.2.3103
J = Laboratory qulifyer for an estimated result
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
NMWQCC = New Mexico Water Quality Control Commission
TDS = Total Dissolved Solids
USEPA = United States Environmental Protection Agency
µg/L = micrograms per liter
Projection= New Mexico State Plane Coordinate System, Central Zone, Norh American Horizontal Datum 1983 (feet)

NATIONVIEW

Site SD-08 Groundwater Analytical Results Above Action Levels

PROJECT NO:	SCALE:	DATE:	DRAWN BY
10-0004	1" = 70'	5/30/2012	WB
			DRAWING NO: 5-1

SD-08 Long Term Monitoring Report
Quarter 2, Spring 2012
Holloman Air Force Base, New Mexico
Figure 5-1



NATIONVIEW

Site SD-08
1,2 - DCA Isoconcentration Map

PROJECT NO:	SCALE:	DATE:	DRAWN BY
10-0004	1" = 130'	6/13/2012	WB
			DRAWING NO: 5-2

SD-08 Long Term Monitoring Report
Quarter 2, Spring 2012
Holloman Air Force Base, New Mexico
Figure 5-2

A-7-4

SD-08 LTM Report Quarter 3, Summer 2012, HAFB, NM (NationView, 2012c)

FINAL
SD-08 LONG TERM MONITORING REPORT
QUARTER 3, SUMMER 2012
HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared For:

49 CES/CEAN
Holloman Air Force Base
New Mexico

Under Contract to:

U.S. Army Corps of Engineers
Omaha District
1616 Capitol Avenue
Omaha, Nebraska 68102-1618

Contract No. W9128F-09-D-0055
Delivery Order 003

September 2012

Prepared By

1608 13th Avenue South, Suite 160
Birmingham, Alabama 35205
NationView Project No. 10-0004

Table 4-1
Groundwater Elevation Summary (July 2012)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Well Point Number	Northing (UTM meters)	Easting (UTM meters)	Elevation TOC (ft above msl)	July 23, 2012 DTW from TOC (ft below TOC)	Groundwater Elevation July 23, 2012 (ft above msl)
MW-08-01	3634971.461	399637.973	4088.273	13.98	4074.293
MW-08-02	3634945.696	399658.149	4088.726	14.72	4074.006
MW-08-03	3635013.345	399663.352	4087.971	13.91	4074.061
MW-08-04	3635032.485	399734.579	4085.640	11.97	4073.670
MW-08-05	3634985.891	399691.393	4086.543	12.63	4073.913
MW-08-06	3634998.180	399766.517	4084.648	11.36	4073.288
MW-08-07	3634957.670	399676.883	4085.403	11.37	4074.033
MW-08-08	3635047.194	399626.968	4085.072	10.73	4074.342
MW-09-01	3634977.965	399479.072	4085.437	9.94	4075.497
S10-MW01	3634953.884	399751.455	4086.882	13.74	4073.142
S10-MW02	3634860.324	399609.385	4088.499	14.08	4074.419
S10-MW06 [1]	3634803.437	399827.361	4083.500	10.79	4072.710
SWMU183-MW03	3634908.694	399645.623	4086.261	12.07	4074.191

Notes:
UTM = Universal Transverse Mercator
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level
[1] S10-MW06 not included in the January 2012 survey conducted by NationView

Table 5-1
Groundwater Analytical Data (July 2012)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	Groundwater Screening Levels		Basewide Background			MW-08-01			MW-08-02			MW-08-03			MW-08-04			MW-08-05			MW-08-06			MW-08-07			MW-08-07-A			MW-08-08			S10-MW01			S10-MW06			SWMU183-MW03		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	Total Metals in Groundwater UTL [4]	21207250501			21207250301			21207250302			21207250303			21207250601			21207241001			21207250502			21207250503			21207250602			21207250604			21207250605			21207250603		
Date Sampled:						7/23/2012			7/23/2012			7/23/2012			7/23/2012			7/24/2012			7/23/2012			7/23/2012			7/23/2012			7/24/2012			7/24/2012			7/24/2012			7/24/2012		
Analyte						Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (8260B)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
1,2-Dichloroethane	10	5	NV	NV	NV	**16.3**			4.98	J		0.119	U		0.119	U		0.119	U		0.119	U		**81.5**		J	**26.0**		J	0.119	U		**17.4**			0.119	U		0.119	U	
1,2-Dichloropropane	NV	5	NV	NV	NV	2.98	J		0.15	U		0.15	U		0.15	U		0.15	U		0.15	U		1.3	J		0.15	U		0.15	U		0.15	U		0.15	U		0.15	U	
Acetone	NV	NV	NV	NV	NV	0.399	U		0.399	U		0.399	U		0.399	U		0.399	U		1.35	J		0.399	U		0.399	U		0.399	U		0.399	U		0.399	U		0.399	U	
Trichloroethene	100	5	NV	NV	NV	0.151	U		0.151	U		0.151	U		0.151	U		0.151	U		0.151	U		0.151	U		0.151	U		0.151	U		1.21	J		0.151	U		0.151	U	
Dissolved TAL Metals Analysis (6010B/7470A)	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Aluminum	5,000	NV	54	54.00	NV	0.024	U		0.024	U		0.035	J		0.034	J	U	0.024	U		0.024	U		0.024	U		0.039	J	U	0.047	U		0.024	U		NS			0.024	U	
Antimony	NV	NV	6	10.00	NV	0.004	U		0.004	U		0.004	U		0.004	U		0.004	U		0.004	U		0.004	U		0.0043	J		0.008	U		0.004	U		NS			0.004	U	
Arsenic	100	NV	10	28.53	NV	0.0037	J		0.03			0.022			0.0092	J		0.0035	U		0.022			0.053			0.049			0.007	U		0.0087	J		NS			0.0035	U	
Barium	1,000	NV	30.2	30.13	NV	0.0093	J		0.012			0.0016	U		0.0088	J		0.013			0.0019	J		0.0093	J		0.0087	J		0.0046	J		0.0043	J		NS			0.0085	J	
Beryllium	NV	NV	1	1.00	NV	0.000082	U		0.00086	J	U	0.0012	J		0.000082	U		0.000082	U		0.0016	J		0.000082	U		0.000082	U		0.00016	U		0.000082	U		NS			0.000082	U	
Cadmium	10	NV	2.5	2.41	NV	0.0026	J		0.0001	U		0.0028	J		0.0009	J	U	0.0023	J		0.0039	J		0.0022	J		0.0019	J		0.00033	J	U	0.0011	J	U	NS			0.0012	J	U
Calcium	NV	NV	1,151,302	1,151,301.20	NV	475			553			569			486			570			507			648			568			662			479			NS			527		
Chromium	50	NV	2.5	2.50	NV	0.00034	U		0.0014	J	U	0.00034	U		0.00034	U		0.00034	U		0.017			0.00034	U		0.0004	J	U	0.00067	U		0.00034	U		NS			0.00034	U	
Cobalt	50	NV	2.6	2.60	NV	0.00075	J		0.0054	J		0.00052	J		0.00052	U		0.00093	J		0.00077	J	U	0.0036	J		0.0036	J		0.001	U		0.00067	J		NS			0.00079	J	
Copper	1,000	NV	22	57.46	NV	0.0072	J		0.0017	U		0.0024	J		0.013			0.011			0.017			0.015			0.015			0.02			0.014			NS			0.015		
Iron	1,000	NV	65.6	65.56	NV	**5.17**			**1.53**			0.027	U		0.027	U		0.027	U		0.027	U		0.027	U		0.027	U		0.053	U		0.027	U		NS			0.027	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	590			147			691			259			53.6			828			189			178			1530			541			NS			201		
Manganese	200	NV	50	118.65	NV	**1.71**			**2.19**			0.00083	U		0.00083	U		0.036			0.00083	U		**1.53**			**1.44**			0.079			**0.21**			NS			**0.79**		
Nickel	200	NV	15.9	15.89	NV	0.00084	U		0.0019	J		0.0018	J		0.00084	U		0.0011	J		0.00084	U		0.0032	J		0.0044	J		0.0017	U		0.0034	J		NS			0.0016	J	
Potassium	NV	NV	120,480	120,479.98	NV	5.24			3.42			21.2			17			7.72			28			5.14			5.2			39.8			20.5			NS			6.75		
Selenium	50	NV	25.3	25.26	NV	0.0038	U		0.0038	U		0.015	J		0.0054	J		0.004	J		0.02	J		0.0046	J		0.0083	J		0.018	J		0.0038	U		NS			0.012	J	
Sodium	NV	NV	19,972,499	19,972,499.00	NV	1760			113			2900			570			29.3			4690			412			407			7090			3110			NS			809		
Thallium	NV	NV	2	15.00	NV	0.005	J		0.0026	U		0.0095	J		0.0026	U		0.0048	J		0.0026	U		0.0026	U		0.0026	U		0.0076	J		0.007	J		NS			0.0042	J	
Vanadium	NV	NV	73.8	73.73	NV	0.032			0.0065	J		0.033			0.078			0.055			0.029			0.074			0.071			0.093			0.088			NS			0.073		
Zinc	10,000	NV	23	56.28	NV	0.0059	U		0.0059	U		0.014	J		0.0059	U		0.0059	U		0.008	J		0.0059	U		0.0059	U		0.012	U		0.0059	U		NS			0.0059	U	
Total TAL Metals Analysis (6010B/7470A)	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Aluminum	NV	50 [6]	1043	NV	1042.43	0.024	U		0.048	J	U	0.034	J	U	0.024	U		0.024	U		0.024	U		0.024	U		0.028	J	U	0.52			0.024	U		NS			0.18	J	U
Antimony	NV	6	6	NV	10.00	0.004	U		0.0042	J		0.004	U		0.004	U		0.004	U		0.004	U		0.004	U		0.004	U		0.008	U		0.004	U		NS			0.004	U	
Arsenic	NV	10	10	NV	25.93	0.0035	U		**0.031**			**0.013**			0.005	J		0.0035	U		**0.02**			**0.043**			**0.044**			0.007	U		**0.012**			NS			0.0035	U	
Barium	NV	2,000	38	NV	38.00	0.0098	J	U	0.014			0.0028	J	U	0.0094	J	U	0.014			0.0023	J		0.012			0.013			0.0073	J	U	0.0046	J	U	NS			0.011		U
Beryllium	NV	4	4	NV	5.00	0.000082	U		0.000082	U		0.000082	U		0.000082	U		0.000082	U		0.0014	J		0.000082	U		0.000082	U		0.00016	U		0.000082	U		NS			0.000082	U	
Cadmium	NV	5	5	NV	8.80	0.0023	J		0.0024	J		0.0012	J		0.0008	J		0.0024	J		0.0044	J		0.0022	J		0.0021	J		0.0014	J		0.0014	J		NS			0.0011	J	
Calcium	NV	NV	113,664	NV	1136663.50	444			599			623			453			653			537			633			607			752			475			NS			524		
Chromium	NV	100	12	NV	12.00	0.00034	U		0.00034	U		0.00034	U		0.00034	U		0.00063	J		0.022			0.00034	U		0.00034	U		0.00067	U		0.00034	U		NS			0.0005	J	
Cobalt	NV	NV	36	NV	36.00	0.00052	U		0.0057	J		0.00052	U		0.00052	U		0.0011	J		0.00067	J		0.0054	J		0.0062	J		0.0016	J		0.00094	J		NS			0.0012	J	
Copper	NV	1,300	9.8	NV	9.80	0.0083	J		0.013			0.0043	J		0.015			0.011			0.017			0.015			0.015			0.017	J		0.012			NS			0.015		
Iron	NV	300 [6]	300	NV	1306.82	**4.89**			**1.76**			0.027	U		0.027	U		**0.69**			0.073	J		0.041	J	J	0.064	J	J	**1.29**			0.027	U		NS			0.18		
Lead	NV	15	9	NV	9.00	0.0028	U		0.0056	J		0.0028	U		0.0028	U		0.0028	U		0.0028	U		0.0028	U		0.0028	U		0.0057	U		0.0028	U		NS			0.0028	U	
Magnesium	NV	NV	3,692,782	NV	3692781.50	572			153			766			261			55.7			875			186			180			1630			586			NS			198		
Manganese	NV	50 [6]	50	NV	745.38	**1.56**			**3.01**			0.00083	U		0.00083	U		0.047			0.00083	U		**1.95**			**1.99**			**0.12**			**0.23**			NS			**0.78**		
Nickel	NV	NV	22	NV	21.97	0.00084	U		0.0019	J		0.00084	U		0.00084	U		0.00084	U		0.00084	U		0.0056	J		0.0057	J		0.0017	U		0.0035	J		NS			0.0025	J	
Potassium	NV	NV	212,144	NV	212143.56	5.31			3.67			19.3			16.4			7.33			30.2			4.95			4.95			40.1			22.5			NS			6.44		
Selenium	NV	50	50	NV	129.52	0.0061	J		0.0038	U		0.014	J		0.0069	J		0.0038	U		0.016	J		0.0038	U		0.0038	U		0.027	J		0.007	J		NS			0.018	J	
Sodium	NV	NV	20,989,585	NV	20989585.00	1670			118			3090			593			27.9			5550			402			402			7010			3170			NS			790		
Thallium	NV	2	2	NV	15.00	0.0026	U		0.0026	U		**0.0033**	J		**0.0068**	J		**0.0033**	J		**0.0037**	J		0.0026	U		**0.0032**	J		**0.0095**	J		**0.003**	J		NS			**0.0047**	J	
Vanadium	NV	NV	90	NV	90.02	0.038			0.051			0.06			0.087			0.051			0.033			0.075			0.074			0.085			0.087			NS			0.073		
Zinc	NV	5,000 [6]	17	NV	16.95	0.0059	U		0.0059	U		0.0059	U		0.0059	U		0.0059	U		0.01	J		0.0059	U		0.0059	U		0.032	J		0.0059	U		NS			0.0059	U	
General Chemistry	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Chloride (USEPA 300.0)	250	250 [6]	35,040	NV	35,039.73	519			119			4100			457			34.2			6240			446			452			12400			3860			NS			907		
Fluoride (USEPA 300.0)	1.6	4	NV	NV	NV	**5.41**			**4.12**			**2.21**			1.26			**4.55**			1.14			**3.29**			**3.35**			4.3	U		**2.81**			NS			1.44		
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	0.78	U		0.39	U		**11.7**			4.18	J		0.434	J		**15.9**			0.927	J		1.26	J		**25.8**			4.44	J		NS			**55.9**		
Sulfate (USEPA 300.0)	600	250 [6]	17,419	NV	17,418.99	5540			1960			5060			2950			1590			7970			2230			2270			8070			6190			NS			2780		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [6]	NV	NV	65,956.58	**9140**			**3450**			**13200**			**5110**			**2700**			**19900**			**4330**			**4360**			**30700**			**14600**			NS			**5520**		

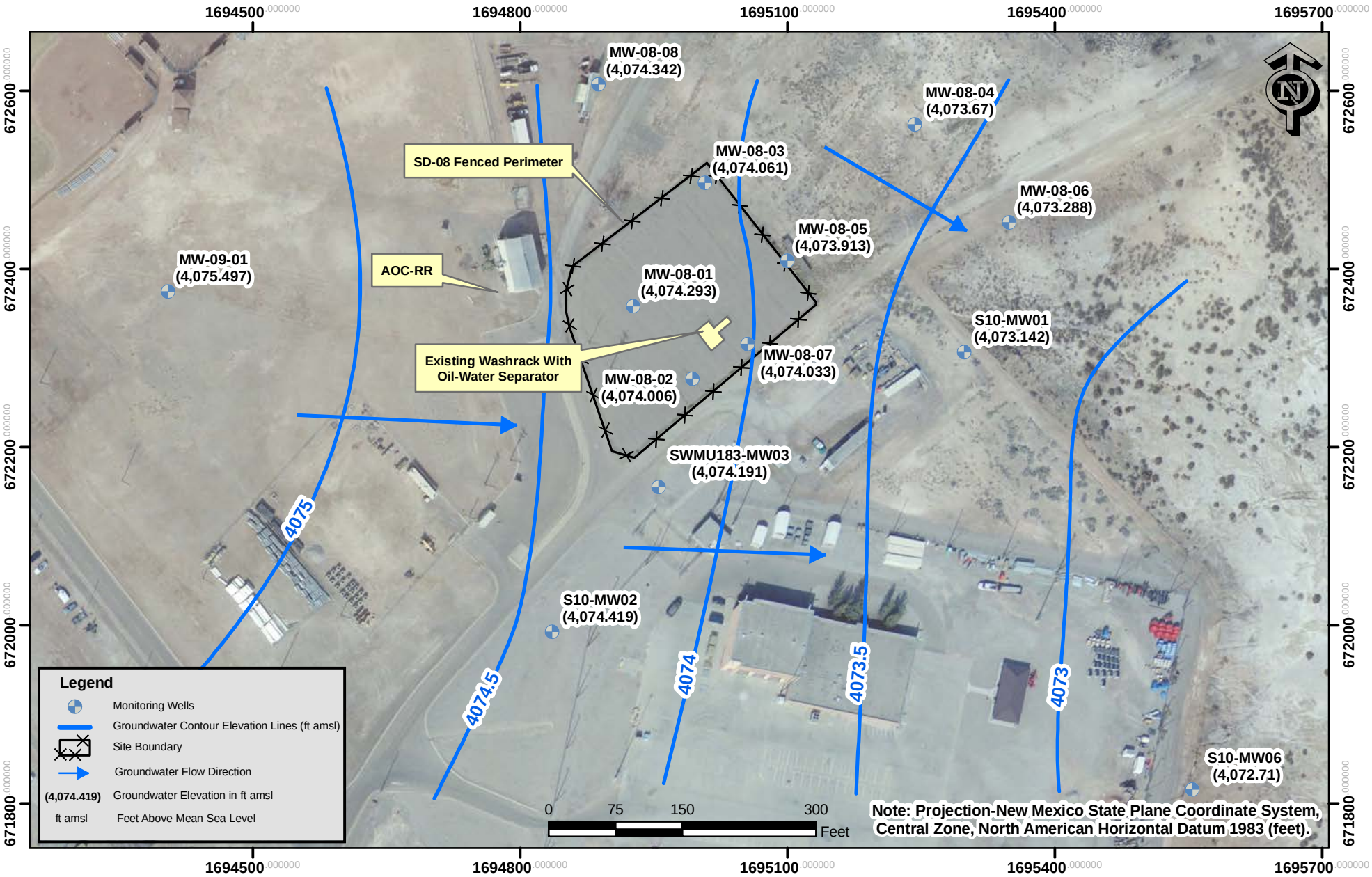
Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Total Analyte List
NMED = New Mexico Environmental Department
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
NS = Not Sampled
Q = Laboraory Qualifier
Q1 = Validating Chemist Qualifier

Sample Identification Nomenclature
MW = Monitoring Well Sample
08 = Site identifier for SD-08
A = Sample suffix denoting a duplicate sample

Qualifiers
U = Not
J = Indicates an estimated value

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Level
Indicates analytical results above the NMED Approved Background Level, but below the New Mexico Groundwater Quality Standard and USEPA MCL



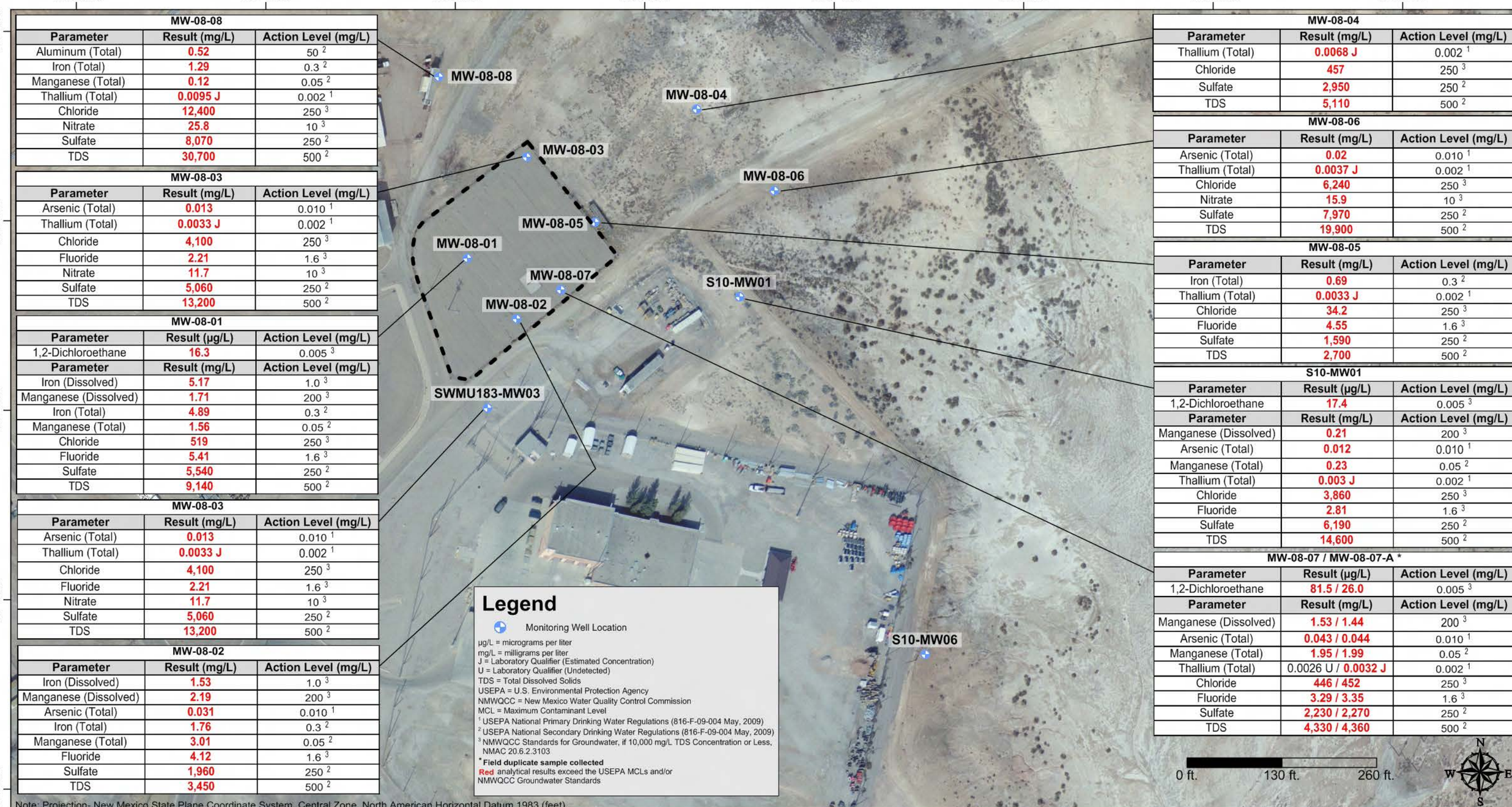
NATIONVIEW

Site SD-08
Potentiometric Map
(July 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1"=150'	9/4/12	cm
			DRAWING NO: fig4-1

SD-08
Long Term Monitoring Report
Quarter 3, Summer 2012
Holloman Air Force Base, New Mexico

Figure 4-1



MW-08-08

Parameter	Result (mg/L)	Action Level (mg/L)
Aluminum (Total)	0.52	50 [2]
Iron (Total)	1.29	0.3 [2]
Manganese (Total)	0.12	0.05 [2]
Thallium (Total)	0.0095 J	0.002 [1]
Chloride	12,400	250 [3]
Nitrate	25.8	10 [3]
Sulfate	8,070	250 [2]
TDS	30,700	500 [2]

MW-08-03

Parameter	Result (mg/L)	Action Level (mg/L)
Arsenic (Total)	0.013	0.010 [1]
Thallium (Total)	0.0033 J	0.002 [1]
Chloride	4,100	250 [3]
Fluoride	2.21	1.6 [3]
Nitrate	11.7	10 [3]
Sulfate	5,060	250 [2]
TDS	13,200	500 [2]

MW-08-01

Parameter	Result (µg/L)	Action Level (mg/L)
1,2-Dichloroethane	16.3	0.005 [3]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Iron (Dissolved)	5.17	1.0 [3]
Manganese (Dissolved)	1.71	200 [3]
Iron (Total)	4.89	0.3 [2]
Manganese (Total)	1.56	0.05 [2]
Chloride	519	250 [3]
Fluoride	5.41	1.6 [3]
Sulfate	5,540	250 [2]
TDS	9,140	500 [2]

MW-08-03

Parameter	Result (mg/L)	Action Level (mg/L)
Arsenic (Total)	0.013	0.010 [1]
Thallium (Total)	0.0033 J	0.002 [1]
Chloride	4,100	250 [3]
Fluoride	2.21	1.6 [3]
Nitrate	11.7	10 [3]
Sulfate	5,060	250 [2]
TDS	13,200	500 [2]

MW-08-02

Parameter	Result (mg/L)	Action Level (mg/L)
Iron (Dissolved)	1.53	1.0 [3]
Manganese (Dissolved)	2.19	200 [3]
Arsenic (Total)	0.031	0.010 [1]
Iron (Total)	1.76	0.3 [2]
Manganese (Total)	3.01	0.05 [2]
Fluoride	4.12	1.6 [3]
Sulfate	1,960	250 [2]
TDS	3,450	500 [2]

MW-08-04

Parameter	Result (mg/L)	Action Level (mg/L)
Thallium (Total)	0.0068 J	0.002 [1]
Chloride	457	250 [3]
Sulfate	2,950	250 [2]
TDS	5,110	500 [2]

MW-08-06

Parameter	Result (mg/L)	Action Level (mg/L)
Arsenic (Total)	0.02	0.010 [1]
Thallium (Total)	0.0037 J	0.002 [1]
Chloride	6,240	250 [3]
Nitrate	15.9	10 [3]
Sulfate	7,970	250 [2]
TDS	19,900	500 [2]

MW-08-05

Parameter	Result (mg/L)	Action Level (mg/L)
Iron (Total)	0.69	0.3 [2]
Thallium (Total)	0.0033 J	0.002 [1]
Chloride	34.2	250 [3]
Fluoride	4.55	1.6 [3]
Sulfate	1,590	250 [2]
TDS	2,700	500 [2]

S10-MW01

Parameter	Result (µg/L)	Action Level (mg/L)
1,2-Dichloroethane	17.4	0.005 [3]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (Dissolved)	0.21	200 [3]
Arsenic (Total)	0.012	0.010 [1]
Manganese (Total)	0.23	0.05 [2]
Thallium (Total)	0.003 J	0.002 [1]
Chloride	3,860	250 [3]
Fluoride	2.81	1.6 [3]
Sulfate	6,190	250 [2]
TDS	14,600	500 [2]

MW-08-07 / MW-08-07-A *

Parameter	Result (µg/L)	Action Level (mg/L)
1,2-Dichloroethane	81.5 / 26.0	0.005 [3]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (Dissolved)	1.53 / 1.44	200 [3]
Arsenic (Total)	0.043 / 0.044	0.010 [1]
Manganese (Total)	1.95 / 1.99	0.05 [2]
Thallium (Total)	0.0026 U / 0.0032 J	0.002 [1]
Chloride	446 / 452	250 [3]
Fluoride	3.29 / 3.35	1.6 [3]
Sulfate	2,230 / 2,270	250 [2]
TDS	4,330 / 4,360	500 [2]

Legend

Monitoring Well Location

µg/L = micrograms per liter
mg/L = milligrams per liter
J = Laboratory Qualifier (Estimated Concentration)
U = Laboratory Qualifier (Undetected)
TDS = Total Dissolved Solids
USEPA = U.S. Environmental Protection Agency
NMWQCC = New Mexico Water Quality Control Commission
MCL = Maximum Contaminant Level
[1] USEPA National Primary Drinking Water Regulations (816-F-09-004 May, 2009)
[2] USEPA National Secondary Drinking Water Regulations (816-F-09-004 May, 2009)
[3] NMWQCC Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, NMAC 20.6.2.3103
* **Field duplicate sample collected**
Red analytical results exceed the USEPA MCLs and/or NMWQCC Groundwater Standards

Note: Projection- New Mexico State Plane Coordinate System, Central Zone, North American Horizontal Datum 1983 (feet).

NATIONVIEW

Site SD-08 Groundwater Analytical Results Above Action Levels

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1" = 130'	8/28/2012	dtm
			DRAWING NO: Fig. 5-1

SD-08 Long Term Monitoring Report
Quarter 3, Summer 2012
Holloman Air Force Base, New Mexico

Figure 5-1

NATIONVIEW

Site SD-08
1,2-Dichloroethane Isoconcentration Map

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1" = 100'	8/24/2012	dtm
			DRAWING NO: Fig. 5-2

SD-08 Long Term Monitoring Report
Quarter 3, Summer 2012
Holloman Air Force Base, New Mexico

Figure 5-2

A-7-5

SD-08 LTM Report Quarter 4, Fall 2012, HAFB, NM (NationView, 2012d)

FINAL
SD-08 LONG TERM MONITORING REPORT
QUARTER 4, FALL 2012
HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared For:

49 CES/CEAN
Holloman Air Force Base
New Mexico

Under Contract to:

U.S. Army Corps of Engineers
Omaha District
1616 Capitol Avenue
Omaha, Nebraska 68102-1618

Contract No. W9128F-09-D-0055
Delivery Order 003

December 2012

Prepared By

1608 13th Avenue South, Suite 160
Birmingham, Alabama 35205
NationView Project No. 10-0004

Table 4-1
Groundwater Elevation Summary (October 2012)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Well Point Number	Northing (UTM meters)	Easting (UTM meters)	Elevation TOC (ft above msl)	October 22, 2012 DTW from TOC (ft below TOC)	Groundwater Elevation October 22, 2012 (ft above msl)
MW-08-01	3634971.461	399637.973	4088.273	14.24	4074.033
MW-08-02	3634945.696	399658.149	4088.726	14.92	4073.806
MW-08-03	3635013.345	399663.352	4087.971	14.14	4073.831
MW-08-04	3635032.485	399734.579	4085.640	12.23	4073.410
MW-08-05	3634985.891	399691.393	4086.543	12.84	4073.703
MW-08-06	3634998.180	399766.517	4084.648	11.59	4073.058
MW-08-07	3634957.670	399676.883	4085.403	11.57	4073.833
MW-08-08	3635047.194	399626.968	4085.072	10.97	4074.102
MW-09-01	3634977.965	399479.072	4085.437	10.11	4075.327
S10-MW01	3634953.884	399751.455	4086.882	13.95	4072.932
S10-MW02	3634860.324	399609.385	4088.499	14.37	4074.129
S10-MW06 [1]	3634803.437	399827.361	4083.500	11.03	4072.470
SWMU183-MW03	3634908.694	399645.623	4086.261	12.21	4074.051

Notes:
UTM = Universal Transverse Mercator
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level
[1] S10-MW06 not included in the January 2012 survey conducted by NationView

Table 5-1
Groundwater Analytical Data (October 2012)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

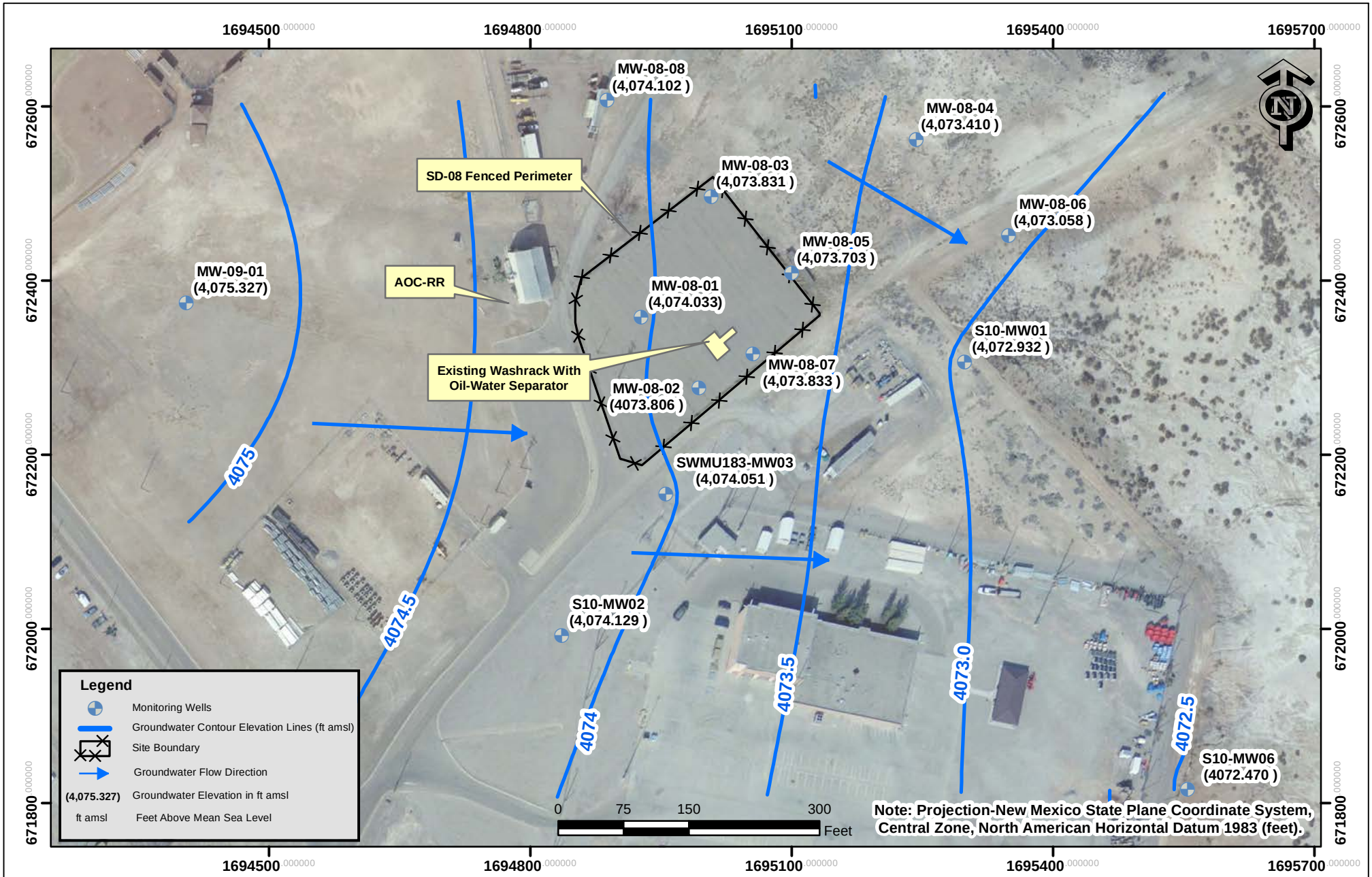
Client Sample Identification:	Groundwater Screening Levels		Basewide Background			MW-08-01			MW-08-02			MW-08-03			MW-08-04			MW-08-05			MW-08-06			MW-08-07			MW-08-07-A			MW-08-08			S10-MW01			S10-MW01-A			S10-MW06			SWMU183-MW03		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	Total Metals in Groundwater UTL [4]	21210250105			21210241302			21210241303			21210241310			21210250101			21210241305			21210250102			21210250103			21210241301			21210250107			21210250108			21210241309			21210250106		
Date Sampled:						10/23/2012			10/23/2012			10/23/2012			10/23/2012			10/23/2012			10/23/2012			10/23/2012			10/23/2012			10/22/2012			10/24/2012			10/24/2012			10/23/2012			10/23/2012		
Analyte						Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (8260B)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
1,2-Dichloroethane	10	5	NV	NV	NV	**29.3**			**14.5**			0.116	U		0.116	U		0.116	U		0.116	U		**69.6**			**67.9**			0.116	U		**15.6**			**15.4**			0.116	U		0.116	U	
1,2-Dichloropropane	NV	5	NV	NV	NV	**5.58**			0.15	U		0.15	U		0.15	U		0.15	U		0.15	U		1.65	J		1.6	J		0.15	U		0.582	J		0.566	J		0.15	U		0.15	U	
Acetone	NV	NV	NV	NV	NV	6.87		U	1.56	JB	U	1.36	JB	U	0.193	U		0.193	U		1.47	JB	U	1.77	J	U	1.67	J	U	1.23	JB	U	1.14	J	U	0.193	U		0.127	JB	U	1.18	J	U
Bromomethane	NV	NV	NV	NV	NV	0.427	U		0.427	U		0.427	U		0.427	U		0.427	U		0.427	U		0.427	U		0.427	U		0.427	U		0.427	U		0.427	U		0.427	U		3.52	J	
Chloroform	100	NV	NV	NV	NV	0.155	U		0.155	U		0.578	J		0.155	U		0.155	U		0.621	J		0.155	U		0.155	U		0.155	U		0.155	U		0.155	U		0.155	U		0.155	U	
Chloromethane	NV	NV	NV	NV	NV	0.144	U		2.41	JB	U	2.28	JB	U	1.01	JB	U	0.144	U		2.61	JB	U	0.144	U		0.144	U		1.9	JB	U	0.144	U		0.144	U		1.06	JB	U	0.144	U	
Trichloroethene	100	5	NV	NV	NV	0.161	U		0.161	U		0.161	U		0.161	U		0.161	U		0.161	U		0.161	U		0.161	U		0.161	U		2.16	J		2.04	J		0.161	U		0.161	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.806	J		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U	
Dissolved TAL Metals Analysis (6010B)	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Aluminum	5,000	50 - 200 [6]	54	54.00	NV	0.03	U		0.03	U		**0.13**	J		**0.073**	J		0.03	U		0.03	U		0.03	U		0.03	U		0.15	U		0.03	U		0.03	U		**0.13**	J		0.03	U	
Antimony	NV	6	6	10.00	NV	**0.011**	J		0.0031	U		0.0041	J		0.0031	U		**0.0074**	J		**0.0095**	J		**0.0098**	J		**0.0093**	J		**0.028**	J		**0.0099**	J		**0.0083**	J		0.0031	U		**0.0087**	J	
Arsenic	100	10	10	28.53	NV	0.0036	U		**0.04**			**0.019**			0.0039	J		**0.015**			**0.013**			**0.066**			**0.069**			**0.045**	J		**0.018**			**0.022**			**0.021**			**0.012**		
Barium	1,000	2,000	30.2	30.13	NV	0.012			0.011			0.0044	J		0.011			0.015			0.0061	J		0.01			0.01			0.0035	U		0.0065	J		0.0052	J		0.0047	J		0.0093	J	
Beryllium	NV	4	1	1.00	NV	0.0001	U		0.00071	J	U	0.00026	J	U	0.00042	J	U	0.0001	U		0.00027	J	U	0.0001	U		0.0001	U		0.00051	U		0.0001	U		0.0001	U		0.00017	J	U	0.0001	U	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	520			569			548			456			628			479			628			635			708			540			495			406			523		
Chromium	50	100	2.5	2.50	NV	0.019			0.0074	J	U	0.019			0.011		U	0.0019	J		0.021			0.0055	J		0.0062	J		0.029	J		0.02			0.018			0.017			0.0073	J	
Cobalt	50	NV	2.6	2.60	NV	0.00058	U		0.0035	J	J	0.0006	J	U	0.00088	J	U	0.0015	J	U	0.00069	J	U	0.0046	J		0.0052	J		0.0029	U		0.0019	J	U	0.0017	J	U	0.00058	U		0.0015	J	U
Copper	1,000	1,300	22	57.46	NV	0.0038	J	U	0.001	U		0.0016	J		0.001	U		0.0021	J	U	0.005	J		0.0023	J	U	0.0014	J	U	0.0079	J		0.0078	J	U	0.0075	J	U	0.0019	J		0.0037	J	U
Iron	1,000	300 [6]	65.6	65.56	NV	**5.52**			**0.92**			0.013	U		0.013	U		0.013	U		0.013	U		0.013	U		0.013	U		0.063	U		0.013	U		0.013	U		0.013	U		0.013	U	
Lead	50	15	9	9.00	NV	0.002	U		0.002	U		0.002	U		0.002	U		**0.043**			0.002	U		0.002	U		0.002	U		0.0098	U		0.002	U		0.002	U		0.002	U		0.002	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	649			151			680			247			66.6			753			197			199			1620			665			575			524			199		
Manganese	200	50 [6]	50	118.65	NV	**1.66**			**1.15**			0.0013	U		0.0013	U		0.023			0.0013	U		**1.49**			**1.51**			0.041	J		**0.21**			**0.2**			**0.07**			**0.8**		
Potassium	NV	NV	120,480	120,479.98	NV	6.4			4.32		J	29.1		J	20.5		J	7.92			31.9		J	6.23			6.11			53.5		J	28.4			24.9			43.5		J	7.33		
Silver	50	100 [6]	10	10.00	NV	0.0007	U		0.0007	U		0.0007	U		0.0007	U		0.0007	U		0.0007	U		0.0007	U		0.0007	U		0.018	J		0.0007	U		0.0007	U		0.0007	U		0.0007	U	
Sodium	NV	NV	19,972,499	19,972,499.00	NV	1740			116			2820			655			46.1			4220			477			460			7230			3600			2970			3040			972		
Thallium	NV	2	2	15.00	NV	0.003	U		**0.0044**	J	J	0.003	U		**0.0056**	J	J	0.003	U		**0.0037**	J	J	0.003	U		0.003	U		0.015	U		0.003	U		0.003	U		0.003	U		0.003	U	
Vanadium	NV	NV	73.8	73.73	NV	0.0035	J	U	0.0012	U		0.035			0.027			0.017	J		0.037			0.016	J		0.014	J		0.11			0.055			0.05			0.044			0.024		
Zinc	10,000	5,000 [6]	23	56.28	NV	0.0045	U		0.0045	U		0.0045	U		0.029			0.0045	U		0.0045	U		0.0045	U		0.0045	U		0.023	U		0.0045	U		0.0045	U		0.0045	U		0.0045	U	
Total TAL Metals Analysis (7470A)	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Mercury	2	2	0.5	NV	0.44	0.0002			0.000068	U		0.000068	U		0.000068	U		0.00023			0.000068	U		0.00013	J	J	0.00019	J	J	0.000068	U		0.00016	J		0.00023			0.000068	U		0.00017	J	
General Chemistry	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Chloride (USEPA 300.0)	250	250 [6]	35,040	NV	35,039.73	563			101			5180			513			22.6			5860			485			469			12300			3770			4180			2280			1010		
Fluoride (USEPA 300.0)	1.6	4	NV	NV	NV	**3.38**		J	**3.53**			**3.11**	J		0.901	J		**4.19**		J	0.465	J		**2.48**		J	**2.94**		J	0.9	U		**1.83**	J	J	**1.69**	J	J	0.638	J		1.44	J	J
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	0.575	U		0.575	U		**12.3**			4.19	J		0.575	U		**15.2**			0.701	J		0.765	J		**24.4**	J	J	4.28	J		4.48	J		**47.1**			**47.9**		
Nitrite (USEPA 300.0)	NV	1	NV	NV	NV	0.075	U		0.075	U		0.75	U	UJ	0.15	U		0.075	U		0.75	U	UJ	0.075	U		0.075	U		0.75	U	UJ	0.3	U		0.3	U		0.15	U		0.3	U	
Sulfate (USEPA 300.0)	600	250 [6]	17,419	NV	17,418.99 [7]	5780			1890			5970			3130			1640			7070			2300			2240			7540			5790			6010			6860			2960		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [6]	NV	NV	65956.58 [7]	**9750**			**3430**			**13400**			**5310**			**2930**			**19800**			**4780**			**4660**			**31800**			**15300**			**15700**			**14700**			**6330**		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environmental Department
UTL = Upper Tolerance Limit
TAL = Total Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the analyte was detected in the associated method blank

Sample Identification Nomenclature
MW = Monitoring Well Sample
08 = Site identifier for SD-08
A = Sample suffix denoting a duplicate sample

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[7] Values established in the Basewide Background Study Report, HAFB, New Mexico (NationView/Bhate JV III, July 2011) and derived from the Total Groundwater UTL.
Bold value indicates analytes above the New Mexico Groundwater Quality Standards or the USEPA MCLs
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Level
Indicates analytical results above the NMED Approved Background Level, but below the New Mexico Groundwater Quality Standard and USEPA MCL



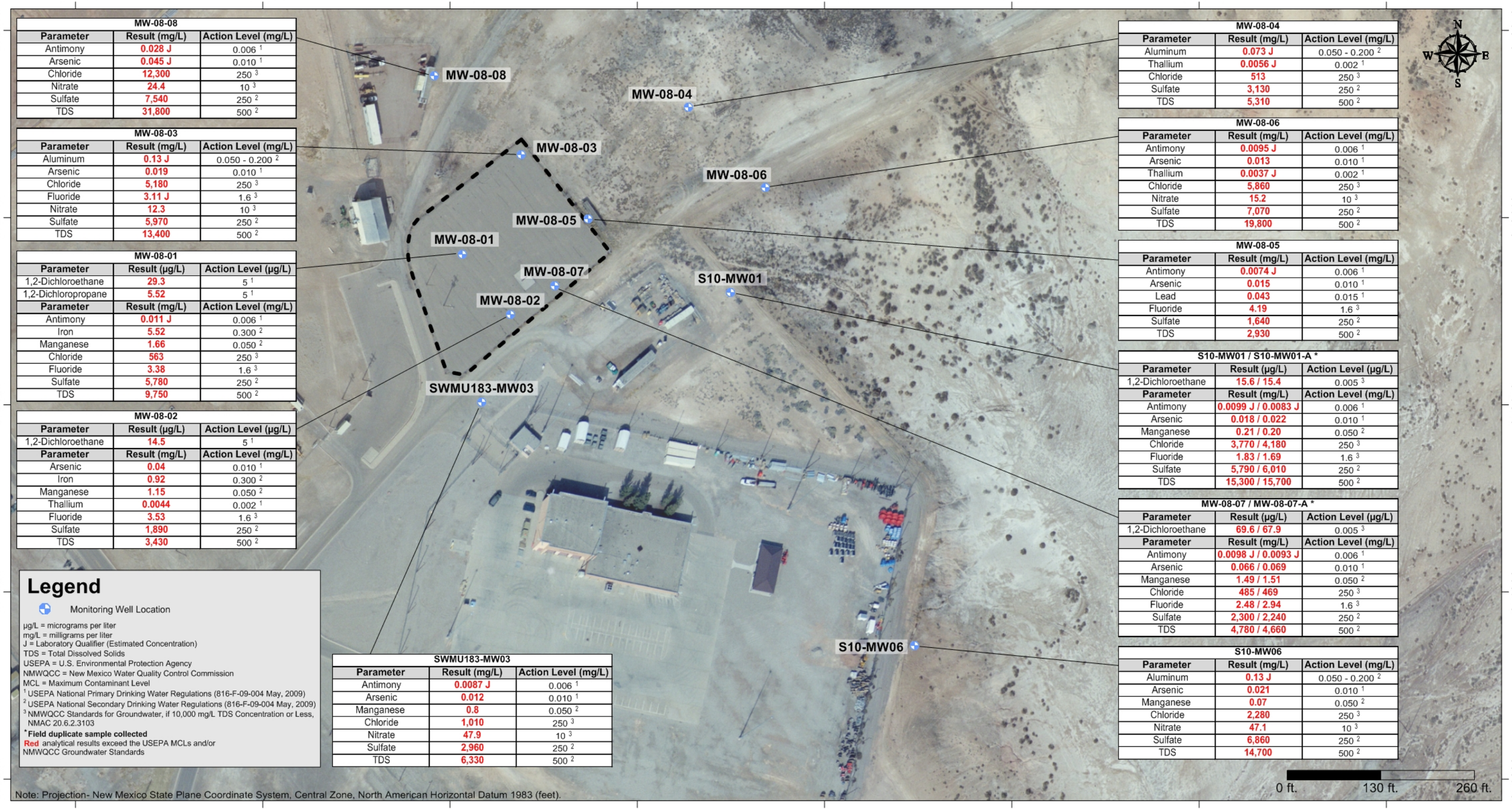
NATIONVIEW

Site SD-08
Potentiometric Map
(October 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1"=150'	11/19/12	cm
			DRAWING NO: fig4-1

SD-08
Long Term Monitoring Report
Quarter 4, Fall 2012
Holloman Air Force Base, New Mexico

Figure 4-1



MW-08-08		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Antimony	0.028 J	0.006 [1]
Arsenic	0.045 J	0.010 [1]
Chloride	12,300	250 [3]
Nitrate	24.4	10 [3]
Sulfate	7,540	250 [2]
TDS	31,800	500 [2]

MW-08-03		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Aluminum	0.13 J	0.050 - 0.200 [2]
Arsenic	0.019	0.010 [1]
Chloride	5,180	250 [3]
Fluoride	3.11 J	1.6 [3]
Nitrate	12.3	10 [3]
Sulfate	5,970	250 [2]
TDS	13,400	500 [2]

MW-08-01		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	29.3	5 [1]
1,2-Dichloropropane	5.52	5 [1]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Antimony	0.011 J	0.006 [1]
Iron	5.52	0.300 [2]
Manganese	1.66	0.050 [2]
Chloride	563	250 [3]
Fluoride	3.38	1.6 [3]
Sulfate	5,780	250 [2]
TDS	9,750	500 [2]

MW-08-02		
1,2-Dichloroethane	14.5	5 [1]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Arsenic	0.04	0.010 [1]
Iron	0.92	0.300 [2]
Manganese	1.15	0.050 [2]
Thallium	0.0044	0.002 [1]
Fluoride	3.53	1.6 [3]
Sulfate	1,890	250 [2]
TDS	3,430	500 [2]

MW-08-04		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Aluminum	0.073 J	0.050 - 0.200 [2]
Thallium	0.0056 J	0.002 [1]
Chloride	513	250 [3]
Sulfate	3,130	250 [2]
TDS	5,310	500 [2]

MW-08-06		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Antimony	0.0095 J	0.006 [1]
Arsenic	0.013	0.010 [1]
Thallium	0.0037 J	0.002 [1]
Chloride	5,860	250 [3]
Nitrate	15.2	10 [3]
Sulfate	7,070	250 [2]
TDS	19,800	500 [2]

MW-08-05		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Antimony	0.0074 J	0.006 [1]
Arsenic	0.015	0.010 [1]
Lead	0.043	0.015 [1]
Fluoride	4.19	1.6 [3]
Sulfate	1,640	250 [2]
TDS	2,930	500 [2]

S10-MW01 / S10-MW01-A *		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	15.6 / 15.4	0.005 [3]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Antimony	0.0099 J / 0.0083 J	0.006 [1]
Arsenic	0.018 / 0.022	0.010 [1]
Manganese	0.21 / 0.20	0.050 [2]
Chloride	3,770 / 4,180	250 [3]
Fluoride	1.83 / 1.69	1.6 [3]
Sulfate	5,790 / 6,010	250 [2]
TDS	15,300 / 15,700	500 [2]

MW-08-07 / MW-08-07-A *		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	69.6 / 67.9	0.005 [3]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Antimony	0.0098 J / 0.0093 J	0.006 [1]
Arsenic	0.066 / 0.069	0.010 [1]
Manganese	1.49 / 1.51	0.050 [2]
Chloride	485 / 469	250 [3]
Fluoride	2.48 / 2.94	1.6 [3]
Sulfate	2,300 / 2,240	250 [2]
TDS	4,780 / 4,660	500 [2]

S10-MW06		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Aluminum	0.13 J	0.050 - 0.200 [2]
Arsenic	0.021	0.010 [1]
Manganese	0.07	0.050 [2]
Chloride	2,280	250 [3]
Nitrate	47.1	10 [3]
Sulfate	6,860	250 [2]
TDS	14,700	500 [2]

SWMU183-MW03		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Antimony	0.0087 J	0.006 [1]
Arsenic	0.012	0.010 [1]
Manganese	0.8	0.050 [2]
Chloride	1,010	250 [3]
Nitrate	47.9	10 [3]
Sulfate	2,960	250 [2]
TDS	6,330	500 [2]

Legend

Monitoring Well Location

µg/L = micrograms per liter
mg/L = milligrams per liter
J = Laboratory Qualifier (Estimated Concentration)
TDS = Total Dissolved Solids
USEPA = U.S. Environmental Protection Agency
NMWQCC = New Mexico Water Quality Control Commission
MCL = Maximum Contaminant Level
[1] USEPA National Primary Drinking Water Regulations (816-F-09-004 May, 2009)
[2] USEPA National Secondary Drinking Water Regulations (816-F-09-004 May, 2009)
[3] NMWQCC Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, NMAC 20.6.2.3103
*Field duplicate sample collected
Red analytical results exceed the USEPA MCLs and/or NMWQCC Groundwater Standards

Note: Projection- New Mexico State Plane Coordinate System, Central Zone, North American Horizontal Datum 1983 (feet).

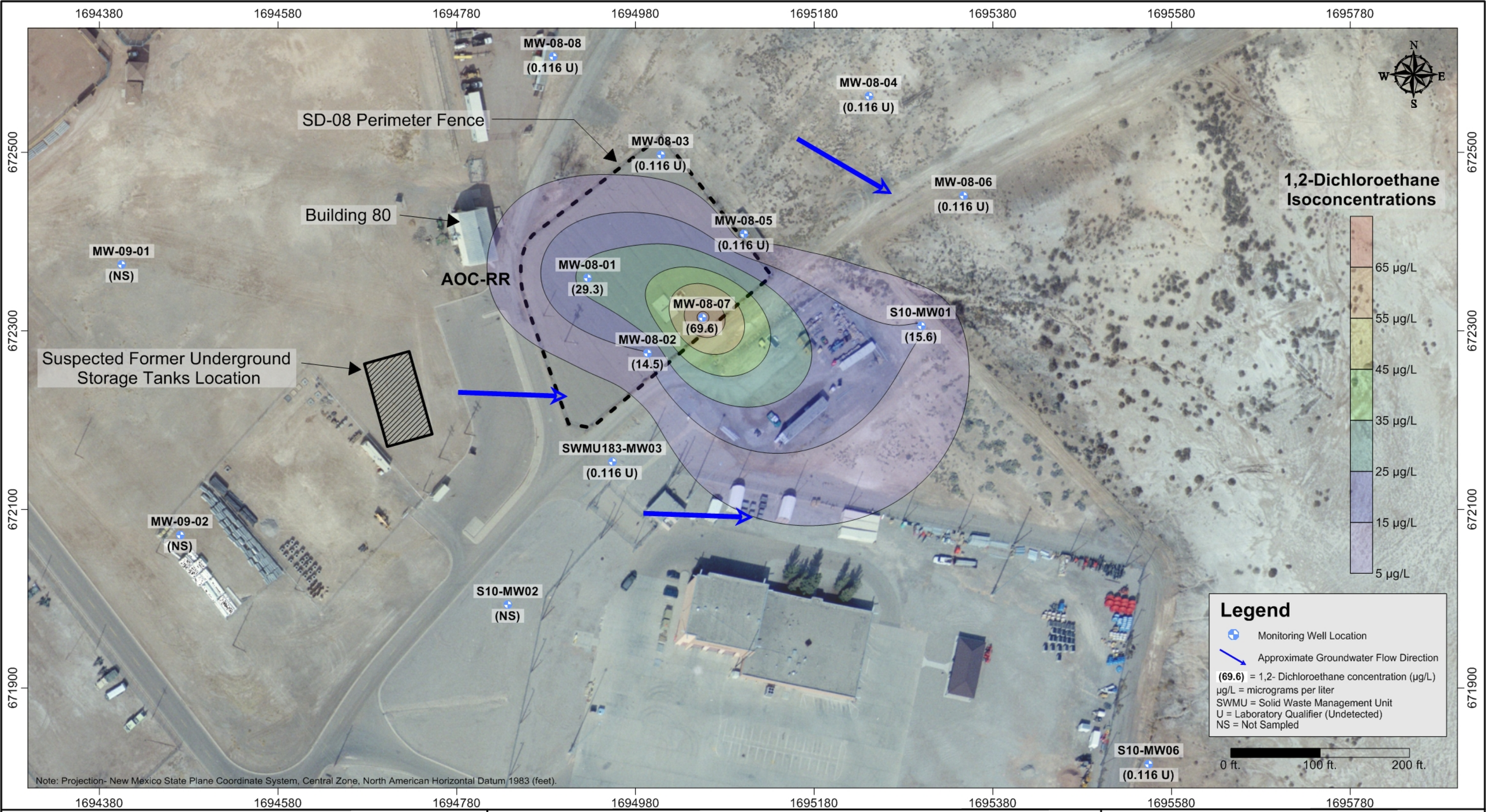
NATIONVIEW

Site SD-08 Groundwater Analytical Results Above Action Levels (October 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1" = 130'	12/03/2012	dtm
			DRAWING NO: Fig. 5-1

SD-08 Long Term Monitoring Report
Quarter 4, Fall 2012
Holloman Air Force Base, New Mexico

Figure 5-1



NATIONVIEW

Site SD-08
1,2-Dichloroethane Isocontour Map (October 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1" = 100'	11/29/2012	dtm
			DRAWING NO: Fig. 5-2

SD-08 Long Term Monitoring Report
Quarter 4, Fall 2012
Holloman Air Force Base, New Mexico

Figure 5-2

A-7-6

SD-08 LTM Report Quarter 5, Winter 2013, HAFB, NM (NationView, 2013a)

FINAL
SD-08 LONG TERM MONITORING REPORT
QUARTER 5, WINTER 2013
HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared For:

49 CES/CEAN
Holloman Air Force Base
New Mexico

Under Contract to:

U.S. Army Corps of Engineers
Omaha District
1616 Capitol Avenue
Omaha, Nebraska 68102-1618

Contract No. W9128F-09-D-0055
Delivery Order 003

March 2013

Prepared By

1608 13th Avenue South, Suite 160
Birmingham, Alabama 35205
NationView Project No. 10-0004

Table 4-1
Groundwater Elevation Summary (January 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Well Point Number	Northing (UTM meters)	Easting (UTM meters)	Elevation TOC (ft above msl)	January 21, 2013 DTW from TOC (ft below TOC)	Groundwater Elevation January 21, 2013 (ft above msl)
MW-08-01	3634971.461	399637.973	4088.273	14.39	4073.883
MW-08-02	3634945.696	399658.149	4088.726	15.12	4073.606
MW-08-03	3635013.345	399663.352	4087.971	14.31	4073.661
MW-08-04	3635032.485	399734.579	4085.640	12.21	4073.430
MW-08-05	3634985.891	399691.393	4086.543	12.90	4073.643
MW-08-06	3634998.180	399766.517	4084.648	11.57	4073.078
MW-08-07	3634957.670	399676.883	4085.403	11.74	4073.663
MW-08-08	3635047.194	399626.968	4085.072	11.10	4073.972
MW-09-01	3634977.965	399479.072	4085.437	10.40	4075.037
S10-MW01	3634953.884	399751.455	4086.882	13.87	4073.012
S10-MW02	3634860.324	399609.385	4088.499	14.42	4074.079
S10-MW06 [1]	3634803.437	399827.361	4083.500	11.11	4072.390
SWMU183-MW03	3634908.694	399645.623	4086.261	12.48	4073.781

Notes:
UTM = Universal Transverse Mercator
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level
[1] S10-MW06 not included in the January 2012 survey conducted by NationView

Table 5-1
Groundwater Analytical Data (January 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	**Groundwater Screening Levels**		**Basewide Background**			MW-08-01			MW-08-02			MW-08-03			MW-08-04			MW-08-05			MW-08-06			MW-08-07		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	Total Metals in Groundwater UTL [4]	21301231411			21301231410			21301231405			21301220601			21301220603			21301231402			21301231406		
Date Sampled:						1/22/2013			1/22/2013			1/21/2013			1/21/2013			1/21/2013			1/21/2013			1/22/2013		
Analyte						**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**
Volatile Organic Compounds (8260B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
1,2-Dichloroethane	10	5	NV	NV	NV	**23.8**			**63.9**			0.116	U		0.116	U		0.116	U		0.116	U		**44.6**		
1,2-Dichloropropane	NV	5	NV	NV	NV	4.97	J		1.38	J		0.15	U		0.15	U		0.15	U		0.15	U		0.941	J	
2-Butanone	NV	NV	NV	NV	NV	39.2			0.142	U		0.142	U		0.142	U		0.142	U		0.142	U		0.142	U	
Acetone	NV	NV	NV	NV	NV	6.98			1.95	J		1.47	J		1.71	J		0.193	U		1.06	J		1.62	J	J
Benzene	10	5	NV	NV	NV	0.584	J		0.111	U		0.111	U		0.111	U		0.111	U		0.111	U		0.111	U	
Bromoform	NV	NV	NV	NV	NV	0.215	U		0.215	U		2.32	J		0.636	J		0.215	U		0.215	U		0.215	U	
Dibromochloromethane	NV	NV	NV	NV	NV	0.054	U		0.054	U		1.24	J		0.054	U		0.054	U		0.054	U		0.054	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.784	J		0.406	J		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U	
Dissolved TAL Metals Analysis (6010B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	6	6	10.00	NV	**0.02**	J		**0.032**	J		**0.026**	J		0.016	U		**0.02**	J		0.016	U		**0.038**	J	J
Barium	1,000	2,000	30.2	30.13	NV	0.01	J		0.012	J		0.0062	J		0.012	J		0.018	J		0.0087	J		0.01	J	
Beryllium	NV	4	1	1.00	NV	0.00051	U		0.00051	U		0.00051	U		0.00062	J		0.00051	U		0.00051	U		0.00051	U	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	420			562			542			461			572			535			604		
Cobalt	50	NV	2.6	2.60	NV	0.0029	U		0.0029	U		0.0029	U		0.0029	U		0.0029	U		0.0029	U		0.0051	J	J
Iron	1,000	300 [6]	65.6	65.56	NV	**6.07**			**0.66**			0.063	U		0.063	U		0.063	U		0.063	U		0.063	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	515			147			701			255			81.5			937			201		
Manganese	200	50 [6]	50	118.65	NV	**1.84**			**1.02**			0.0066	U		0.0066	U		**0.056**	J		0.0066	U		**1.39**		
Potassium	NV	NV	120,480	120,479.98	NV	4.28			3.01			19.6			15.1			7.51			23.4			4.54		
Silver	50	100 [6]	10	10.00	NV	0.0035	U		0.0046	J		0.012	J		0.0035	U		0.004	J		0.0077	J		0.0049	J	
Sodium	NV	NV	19,972,499	19,972,499.00	NV	1580			119			3160			639			79.4			5140			488		
Thallium	NV	2	2	15.00	NV	**0.035**	J		0.015	U		**0.022**	J		0.015	U		0.015	U		**0.032**	J		0.015	U	
Vanadium	NV	NV	73.8	73.73	NV	0.0062	U		0.015	J		0.072	J		0.024	J		0.016	J		0.064	J		0.011	J	J
Mercury	2	2	0.5	NV	0.44	0.00011	J		0.00012	J		0.00009	J		0.000068	U		0.000068	U		0.000068	U		0.000068	U	
Total TAL Metals Analysis (7470A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Mercury	2	2	0.5	NV	0.44	0.000068	U		0.00008	J		0.00008	J		0.000068	U		0.0001	J		0.000068	U		0.0001	J	
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Chloride (USEPA 300.0)	250	250 [6]	35,040	NV	35,039.73	556			116			4150			583			59			5320			413		
Fluoride (USEPA 300.0)	1.6	4	NV	NV	NV	**3.28**			**3.94**			1.51	J		1.02			**5.03**			0.9	U		**2.77**		
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	1.15	U		0.132	J		**14.2**			6.2			0.321	J		**19**	J		1.31	J	
Nitrite (USEPA 300.0)	NV	1	NV	NV	NV	0.15	U		0.015	U		0.3	U		0.15	U		0.015	U		0.75	U		0.075	U	
Sulfate (USEPA 300.0)	600	250 [6]	17,419	NV	17,418.99	5470			1940			4960			2690			1630			5390			2150		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [6]	NV	NV	65,956.58	**8170**			**3510**			**14100**			**3280**			**2270**			**21800**			**4460**		

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environmental Department
UTL = Upper Tolerance Limit
TAL = Total Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
Bold value indicates analytes above the New Mexico Groundwater Quality Standards or the USEPA MCLs
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Level
Indicates analytical results above the NMED Approved Background Level, but below the New Mexico Groundwater Quality Standard and USEPA MCL

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the analyte was detected in the associated method blank

Sample Identification Nomenclature
MW = Monitoring Well Sample
08 = Site identifier for SD-08
A = Sample suffix denoting a duplicate sample

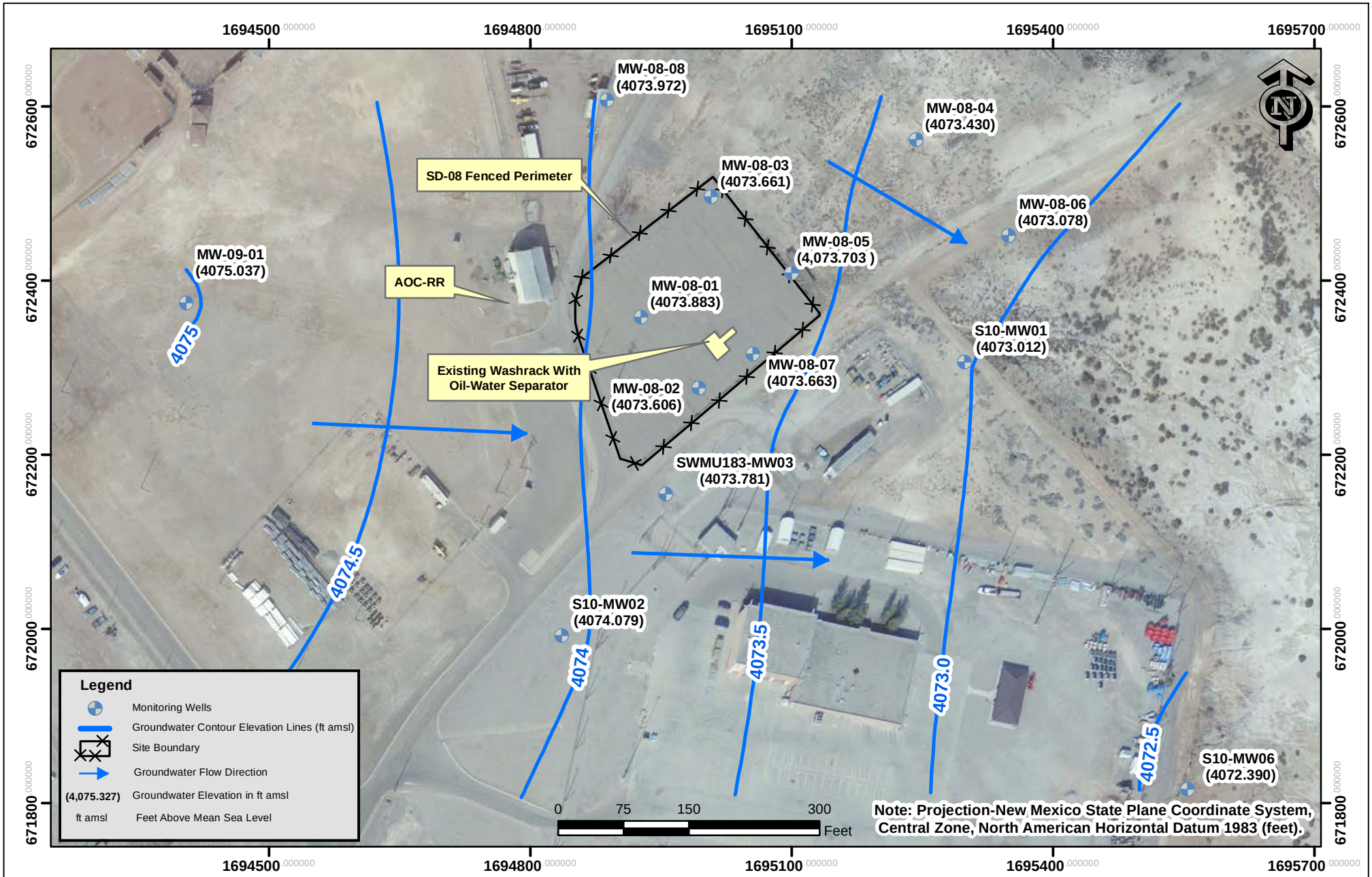
Table 5-1
Groundwater Analytical Data (January 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	Groundwater Screening Levels		Basewide Background			MW-08-07-A			MW-08-08			S10-MW01			S10-MW01-A			S10-MW-06			SWMU183-MW03		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	Total Metals in Groundwater UTL [4]	21301231407			21301220602			21301231408			21301231409			21301231401			21301220604		
Date Sampled:						1/22/2013			1/21/2013			1/22/2013			1/22/2013			1/21/2013			1/21/2013		
Analyte						Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (8260B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
1,2-Dichloroethane	10	5	NV	NV	NV	**49.2**			0.116	U		**12.8**			**13.5**			0.116	U		0.116	U	
1,2-Dichloropropane	NV	5	NV	NV	NV	1.19	J		0.15	U		0.15	U		0.15	U		0.15	U		0.15	U	
2-Butanone	NV	NV	NV	NV	NV	0.142	U		0.142	U		0.142	U		0.142	U		0.142	U		0.142	U	
Acetone	NV	NV	NV	NV	NV	1.08	J	J	0.193	U		0.193	U		1.26	J	J	0.193	U		0.193	U	
Benzene	10	5	NV	NV	NV	0.111	U		0.111	U		0.111	U		0.111	U		0.111	U		0.111	U	
Bromoform	NV	NV	NV	NV	NV	0.215	U		0.215	U		0.215	U		0.215	U		0.215	U		0.215	U	
Dibromochloromethane	NV	NV	NV	NV	NV	0.054	U		0.054	U		0.054	U		0.054	U		0.054	U		0.054	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U	
Dissolved TAL Metals Analysis (6010B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	6	6	10.00	NV	**0.023**	J	J	**0.033**	J		0.016	U		**0.039**	J		**0.039**	J		**0.019**	J	
Barium	1,000	2,000	30.2	30.13	NV	0.011	J		0.011	J		0.0074	J		0.0073	J		0.0082	J		0.0099	J	
Beryllium	NV	4	1	1.00	NV	0.00051	U		0.00051	U		0.00051	U		0.00051	U		0.00051	U		0.00051	U	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	536			613			504			500			441			493		
Cobalt	50	NV	2.6	2.60	NV	0.0034	J	J	0.0029	U		0.0029	U		0.0029	U		0.0029	U		0.0029	U	
Iron	1,000	300 [6]	65.6	65.56	NV	0.063	U		0.063	U		0.063	U		0.063	U		0.063	U		0.063	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	170			1370			493			477			610			189		
Manganese	200	50 [6]	50	118.65	NV	**1.39**			**0.09**			**0.25**			**0.26**			**0.084**			**0.67**		
Potassium	NV	NV	120,480	120,479.98	NV	4.18			33.6			15.2			16			30.3			5.92		
Silver	50	100 [6]	10	10.00	NV	0.0066	J		0.011	J		0.0065	J		0.0086	J		0.011	J		0.0035	U	
Sodium	NV	NV	19,972,499	19,972,499.00	NV	442			7190			2370			2490			3330			1140		
Thallium	NV	2	2	15.00	NV	0.015	U		0.015	U		0.015	U		**0.024**	J		0.015	U		**0.021**	J	
Vanadium	NV	NV	73.8	73.73	NV	0.023	J	J	0.077	J		0.055	J	J	0.076	J	J	0.081	J		0.012	J	
Mercury	2	2	0.5	NV	0.44	0.00009	J		0.00011	J		0.000068	U		0.00012	J		0.00011	J		0.00011	J	
Total TAL Metals Analysis (7470A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Mercury	2	2	0.5	NV	0.44	0.000068	U		0.00009	J		0.000068	U		0.00008	J		0.000068	U		0.00008	J	
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Chloride (USEPA 300.0)	250	250 [6]	35,040	NV	35,039.73	389			10300			2390			2350			2430			929		
Fluoride (USEPA 300.0)	1.6	4	NV	NV	NV	**2.83**			0.9	U		**2.49**			**2.43**			1.23	J		**1.69**	J	
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	1.47	J		**33**			4.97	J		5.06	J		**47.5**			**34**		
Nitrite (USEPA 300.0)	NV	1	NV	NV	NV	0.075	U		0.75	U		0.3	U		0.3	U		0.3	U		0.3	U	
Sulfate (USEPA 300.0)	600	250 [6]	17,419	NV	17,418.99	2150			6390			4950			4850			7320			3170		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [6]	NV	NV	65,956.58	**4310**			**31600**			**10800**			**10600**			**15300**			**3730**		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environmental Department
UTL = Upper Tolerance Limit
TAL = Total Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the analyte was detected in the associated method blank

Sample Identification Nomenclature
MW = Monitoring Well Sample
08 = Site identifier for SD-08
A = Sample suffix denoting a duplicate sample



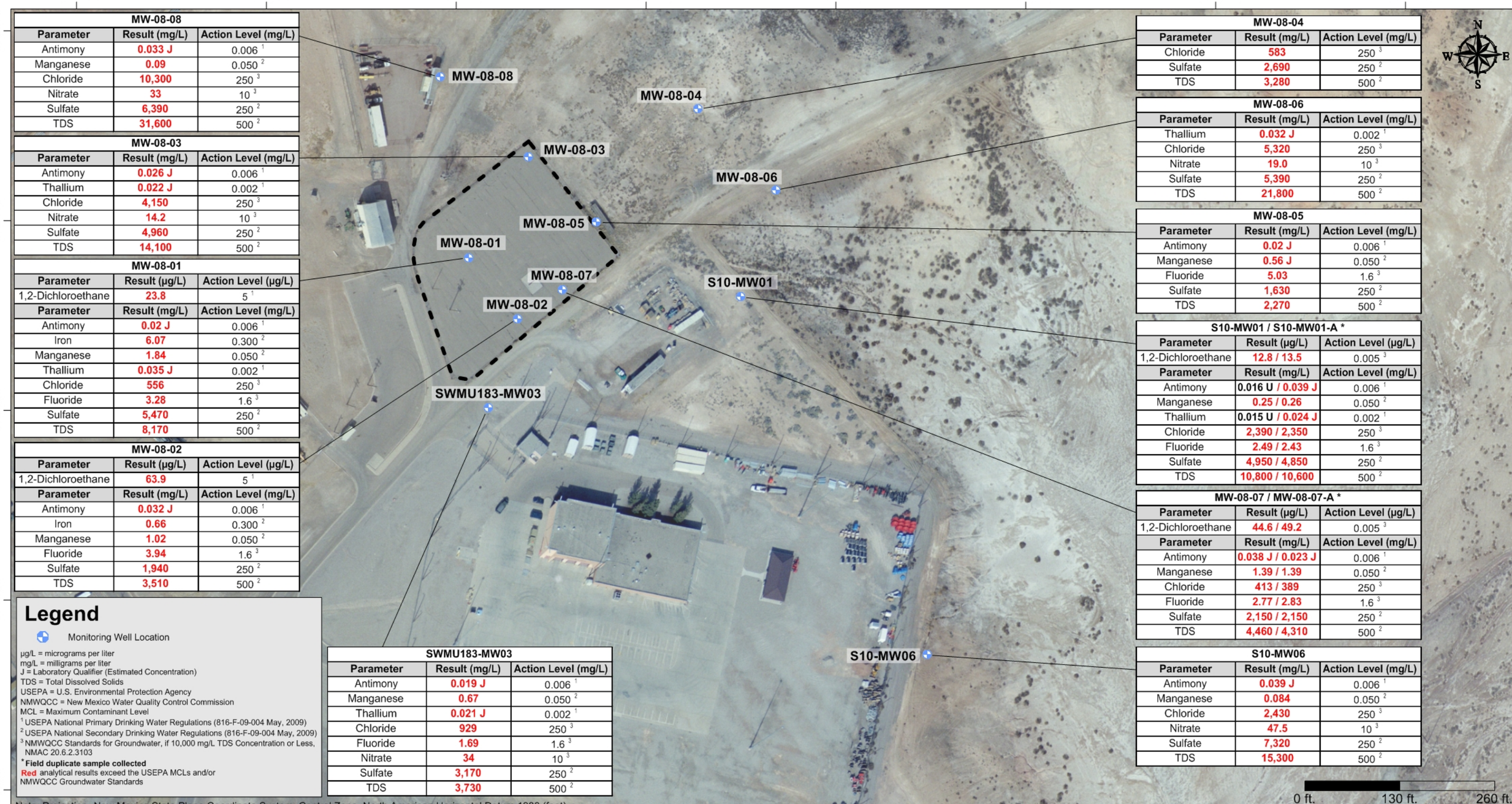
NATIONVIEW

Site SD-08
Potentiometric Map
(January 2013)

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1"=150'	2/8/13	cm
			DRAWING NO: fig4-1

SD-08
Long Term Monitoring Report
Quarter 5, Winter 2013
Holloman Air Force Base, New Mexico

Figure 4-1



MW-08-08		
Parameter	Result (mg/L)	Action Level (mg/L)
Antimony	0.033 J	0.006 [1]
Manganese	0.09	0.050 [2]
Chloride	10,300	250 [3]
Nitrate	33	10 [3]
Sulfate	6,390	250 [2]
TDS	31,600	500 [2]

MW-08-03		
Parameter	Result (mg/L)	Action Level (mg/L)
Antimony	0.026 J	0.006 [1]
Thallium	0.022 J	0.002 [1]
Chloride	4,150	250 [3]
Nitrate	14.2	10 [3]
Sulfate	4,960	250 [2]
TDS	14,100	500 [2]

MW-08-01		
Parameter	Result (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	23.8	5 [1]
Parameter	Result (mg/L)	Action Level (mg/L)
Antimony	0.02 J	0.006 [1]
Iron	6.07	0.300 [2]
Manganese	1.84	0.050 [2]
Thallium	0.035 J	0.002 [1]
Chloride	556	250 [3]
Fluoride	3.28	1.6 [3]
Sulfate	5,470	250 [2]
TDS	8,170	500 [2]

MW-08-02		
Parameter	Result (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	63.9	5 [1]
Parameter	Result (mg/L)	Action Level (mg/L)
Antimony	0.032 J	0.006 [1]
Iron	0.66	0.300 [2]
Manganese	1.02	0.050 [2]
Fluoride	3.94	1.6 [3]
Sulfate	1,940	250 [2]
TDS	3,510	500 [2]

Legend

Monitoring Well Location

µg/L = micrograms per liter
mg/L = milligrams per liter
J = Laboratory Qualifier (Estimated Concentration)
TDS = Total Dissolved Solids
USEPA = U.S. Environmental Protection Agency
NMWQCC = New Mexico Water Quality Control Commission
MCL = Maximum Contaminant Level
[1] USEPA National Primary Drinking Water Regulations (816-F-09-004 May, 2009)
[2] USEPA National Secondary Drinking Water Regulations (816-F-09-004 May, 2009)
[3] NMWQCC Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, NMAC 20.6.2.3103
* Field duplicate sample collected
Red analytical results exceed the USEPA MCLs and/or NMWQCC Groundwater Standards

SWMU183-MW03		
Parameter	Result (mg/L)	Action Level (mg/L)
Antimony	0.019 J	0.006 [1]
Manganese	0.67	0.050 [2]
Thallium	0.021 J	0.002 [1]
Chloride	929	250 [3]
Fluoride	1.69	1.6 [3]
Nitrate	34	10 [3]
Sulfate	3,170	250 [2]
TDS	3,730	500 [2]

MW-08-04		
Parameter	Result (mg/L)	Action Level (mg/L)
Chloride	583	250 [3]
Sulfate	2,690	250 [2]
TDS	3,280	500 [2]

MW-08-06		
Parameter	Result (mg/L)	Action Level (mg/L)
Thallium	0.032 J	0.002 [1]
Chloride	5,320	250 [3]
Nitrate	19.0	10 [3]
Sulfate	5,390	250 [2]
TDS	21,800	500 [2]

MW-08-05		
Parameter	Result (mg/L)	Action Level (mg/L)
Antimony	0.02 J	0.006 [1]
Manganese	0.56 J	0.050 [2]
Fluoride	5.03	1.6 [3]
Sulfate	1,630	250 [2]
TDS	2,270	500 [2]

S10-MW01 / S10-MW01-A *		
Parameter	Result (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	12.8 / 13.5	0.005 [3]
Parameter	Result (mg/L)	Action Level (mg/L)
Antimony	0.016 U / 0.039 J	0.006 [1]
Manganese	0.25 / 0.26	0.050 [2]
Thallium	0.015 U / 0.024 J	0.002 [1]
Chloride	2,390 / 2,350	250 [3]
Fluoride	2.49 / 2.43	1.6 [3]
Sulfate	4,950 / 4,850	250 [2]
TDS	10,800 / 10,600	500 [2]

MW-08-07 / MW-08-07-A *		
Parameter	Result (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	44.6 / 49.2	0.005 [3]
Parameter	Result (mg/L)	Action Level (mg/L)
Antimony	0.038 J / 0.023 J	0.006 [1]
Manganese	1.39 / 1.39	0.050 [2]
Chloride	413 / 389	250 [3]
Fluoride	2.77 / 2.83	1.6 [3]
Sulfate	2,150 / 2,150	250 [2]
TDS	4,460 / 4,310	500 [2]

S10-MW06		
Parameter	Result (mg/L)	Action Level (mg/L)
Antimony	0.039 J	0.006 [1]
Manganese	0.084	0.050 [2]
Chloride	2,430	250 [3]
Nitrate	47.5	10 [3]
Sulfate	7,320	250 [2]
TDS	15,300	500 [2]

Note: Projection- New Mexico State Plane Coordinate System, Central Zone, North American Horizontal Datum 1983 (feet).

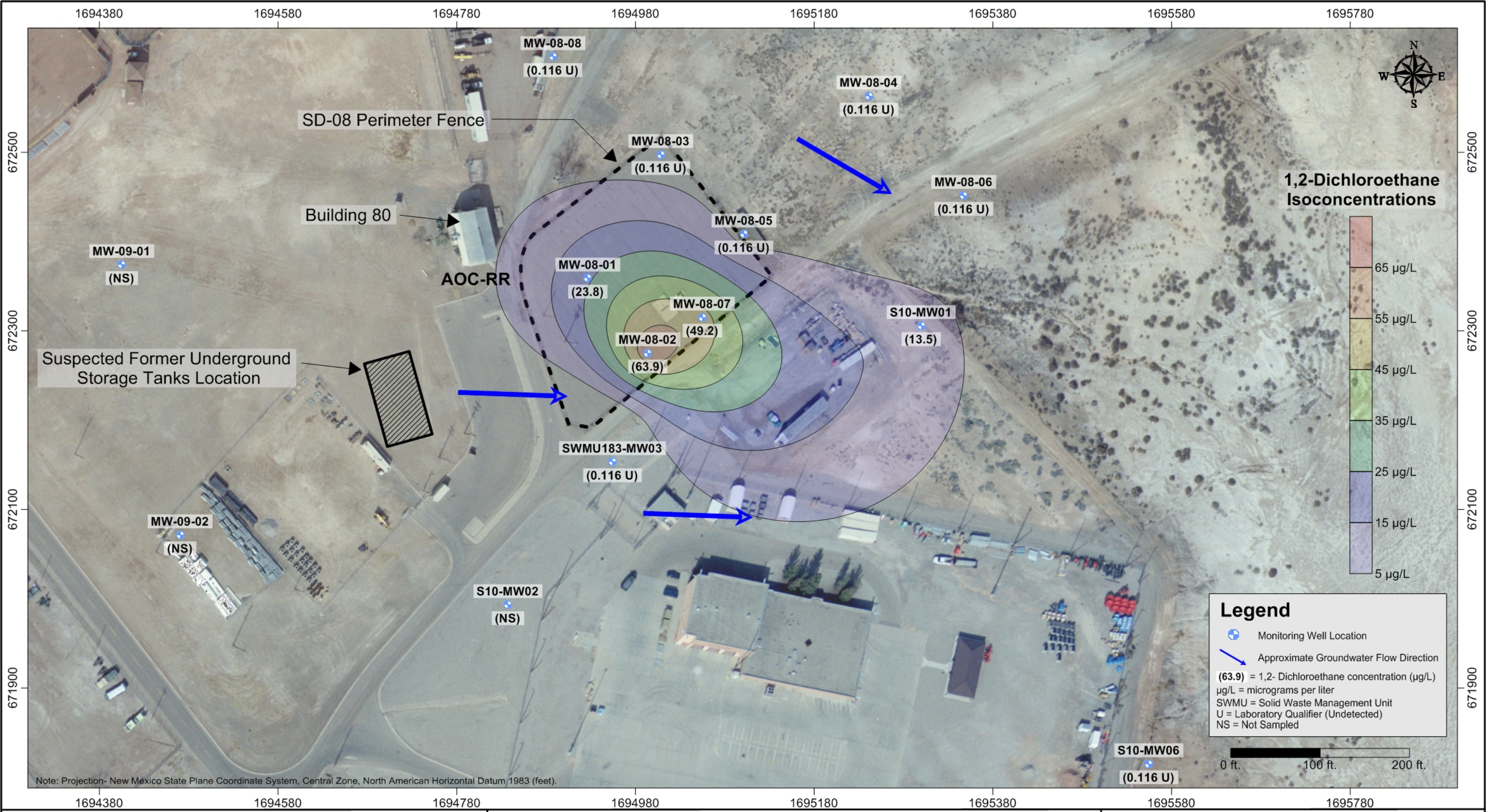
NATIONVIEW

Site SD-08 Groundwater Analytical Results Above Action Levels (January 2013)

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1" = 130'	2/21/2013	dtm
			DRAWING NO: Fig. 5-1

SD-08 Long Term Monitoring Report
Quarter 5, Winter 2013
Holloman Air Force Base, New Mexico

Figure 5-1



NATIONVIEW

Site SD-08
1,2-Dichloroethane Isocontour Map (January 2013)

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1" = 100'	2/21/2013	dtm
			DRAWING NO: Fig. 5-2

SD-08 Long Term Monitoring Report
Quarter 5, Winter 2013
Holloman Air Force Base, New Mexico

Figure 5-2

A-7-7

SD-08 LTM Report Quarter 6, Spring 2013, HAFB, NM (NationView, 2013b)

FINAL
SD-08 LONG TERM MONITORING REPORT
QUARTER 6, SPRING 2013
HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared For:

49 CES/CEAN
Holloman Air Force Base
New Mexico

Under Contract to:

U.S. Army Corps of Engineers
Omaha District
1616 Capitol Avenue
Omaha, Nebraska 68102-1618

Contract No. W9128F-09-D-0055
Delivery Order 003

May 2013

Prepared By

1608 13th Avenue South, Suite 160
Birmingham, Alabama 35205
NationView Project No. 10-0004

Table 4-1
Groundwater Elevation Summary (April 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Well Point Number	Northing (UTM meters)	Easting (UTM meters)	Elevation TOC (ft above msl)	April 8, 2013 DTW from TOC (ft below TOC)	Groundwater Elevation April, 2013 (ft above msl)
MW-08-01	3634971.461	399637.973	4088.273	14.47	4073.803
MW-08-02	3634945.696	399658.149	4088.726	15.24	4073.486
MW-08-03	3635013.345	399663.352	4087.971	14.34	4073.631
MW-08-04	3635032.485	399734.579	4085.640	12.30	4073.340
MW-08-05	3634985.891	399691.393	4086.543	13.06	4073.483
MW-08-06	3634998.180	399766.517	4084.648	11.67	4072.978
MW-08-07	3634957.670	399676.883	4085.403	11.84	4073.563
MW-08-08	3635047.194	399626.968	4085.072	11.12	4073.952
MW-09-01	3634977.965	399479.072	4085.437	10.57	4074.867
S10-MW01	3634953.884	399751.455	4086.882	14.04	4072.842
S10-MW02	3634860.324	399609.385	4088.499	14.89	4073.609
S10-MW06 [1]	3634803.437	399827.361	4083.500	11.20	4072.300
SWMU183-MW03	3634908.694	399645.623	4086.261	12.63	4073.631

Notes:
UTM = Universal Transverse Mercator
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level
[1] S10-MW06 not included in the January 2012 survey conducted by NationView

Table 5-1
Soil Analytical Results (March 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No: 10-0004

Client Sample Identification:	**Soil Screening Levels**	**Basewide Background**	SD08-MW10-SB-05'			SD08-MW10-SB-09'			SD08-MW11-SB-05'			SD08-MW11-SB-09'			SD08-MW11-SB-09'A		
Lab Sample Identification:	**NMED Residential[1]**	**NMED Approved Background Levels [2]**	FA3075-1			FA3075-2			FA3118-1			FA3118-2			FA3118-3		
Date Sampled:			3/26/2013			3/26/2013			3/26/2013			3/26/2013			3/26/2013		
Analyte			**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**
Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
All VOCs	NV	NV	ND			ND			ND			ND			ND		
TAL Metals Analysis	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,000	13,722	5560		J	3980		J	1990			7010		J	4000		J
Arsenic	3.9	3.7	1.9			1.4			0.63			1.6			2.1		
Barium	15,600	169.3	47.4		J	45.1		J	27.7			66.8			54.1		
Beryllium	156	1.6	0.22	J		0.14	J		0.094	J		0.56		J	0.37		J
Calcium	NV [5]	317,332	94800		J	123000		J	143000		J	152000		J	135000		J
Chromium	117,000	25	6.0			4.3	J		2.5	J		10.7		J	7.4		J
Cobalt	23 [4]	7.7	1.6	J	J	1.2	J	J	0.87	J		3.4			2.5		
Copper	3,130	13	3.7			2.4			1.1			4.3			3.6		
Iron	54,800	23,049	4170		J	3060		J	1820			6110			4490		
Lead	400	10.9	4.4	J		3.5	J		4.0	J	J	8.9		J	7.7		J
Magnesium	NV [5]	16,991	3030			1940			1400		J	10300		J	7530		J
Manganese	1,860	393	68.0		J	44.3		J	24.9			125			99.9		
Nickel	1,560	17.4	3.7		J	2.7		J	1.9		J	9.1		J	6.1		J
Potassium	NV [5]	5,077	2160		J	1080		J	760			1820		J	1170		J
Sodium	NV [5]	5,196	201	J		115	J		832			1060			1020		
Vanadium	391	42.6	9.2		J	8.6		J	4.6			10.7			10.5		
Zinc	23,500	54.6	17.8			10.6			9.6		J	31.2		J	23.6		J
General Chemistry	**%**	**%**	**%**			**%**			**%**			**%**			**%**		
Solids, Percent	NV	NV	89.6			81.8			86.4			81.8			79.0		

Notes:

NMED = New Mexico Environment Department
VOC = Volatile Organic Compound
TAL = Target Analyte List
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier
ND = Not detected (All VOCs)
J = Indicates an estimated value
% = percent
Client Sample Nomenclature
SD-08 = Building 131 Washrack
MW = Monitoring Well Location
SB = Soil Boring Sample
A = Sample suffix denoting a duplicate sample

[1] Table A-1, NMED Soil Screening Levels. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012).
[2] Table 1, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (May, 2012)
[5] No Value established for NMED Residential SSL (June, 2012) and USEPA RSL (May, 2012)
Bold value indicates analytes above NMED SSLs (June, 2012)
Indicates analytical results above the NMED Residential SSL, but below the NMED Approved Background Level
Indicates analytical results above the NMED Approved Background Level, but below the NMED Residential SSL

Table 5-2
Groundwater Analytical Data (April 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	**Groundwater Screening Levels**		**Basewide Background**			MW-08-01			MW-08-01-A			MW-08-02			MW-08-02-A			MW-08-03			MW-08-04			MW-08-05		
Lab Sample Identification:	**NMWQCC[1]**	**USEPA MCL [2]**	**NMED Approved Background Levels [3]**	**Dissolved Metals in Groundwater UTL [4]**	**Total Metals in Groundwater UTL [4]**	21304100608			21304100609			21304090401			21304090402			21304100605			21304100607			21304100615		
Date Sampled:						4/8/2013			4/8/2013			4/8/2013			4/8/2013			4/8/2013			4/8/2013			4/9/2013		
Analyte						**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**
Volatile Organic Compounds (8260B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
1,2-Dichloroethane	10	5	NV	NV	NV	**27.2**			**27.9**			**5.37**			**5.26**			0.116	U		0.116	U		2.34	J	
1,2-Dichloropropane	NV	5	NV	NV	NV	**5.38**			**5.79**			0.15	U		0.15	U		0.15	U		0.15	U		0.15	U	
Acetone	NV	NV	NV	NV	NV	3.17	J	J	6.52		J	0.193	U		0.193	U		0.193	U		0.193	U		0.193	U	
Benzene	10	5	NV	NV	NV	0.506	J		0.409	J		0.111	U		0.111	U		0.111	U		0.111	U		0.111	U	
Chloroform	100	NV	NV	NV	NV	0.155	U		0.155	U		0.155	U		0.155	U		1.04	J		0.155	U		0.155	U	
sec-Butylbenzene	NV	NV	NV	NV	NV	3.57	J		3.56	J		0.107	U		0.107	U		0.107	U		0.107	U		0.107	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	3.84	J		3.77	J		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U	
Dissolved TAL Metals Analysis (6010B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Arsenic	100	10	10	28.53	NV	**0.012**	J		**0.016**	J		**0.031**			**0.033**			0.05	U		**0.013**	J		**0.011**	J	
Barium	1,000	2,000	30.2	30.13	NV	0.013			0.013			0.013			0.012			0.025	U		0.014			0.021		
Calcium	NV	NV	1,151,302	1,151,301.20	NV	523			524			643			601			729			549			688		
Cobalt	50	NV	2.6	2.60	NV	0.0025	U		0.0025	U		0.0025	U		0.0025	U		0.025	U		0.0025	U		0.0025	U	
Copper	1,000	1,300	22	57.46	NV	0.0051	J	J	0.0085	J	J	0.018	J		0.02			0.26			0.019	J		0.013	J	
Iron	1,000	300 [7]	65.6	65.56	NV	**7.14**			**7.62**			**0.77**			**0.71**			0.5	U		0.05	U		0.05	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	634			625			172			161			1790			300			114		
Manganese	200	50 [7]	50	118.65	NV	**2.39**			**2.38**			**1.19**			**1.12**			0.038	U		0.0038	U		**0.13**		
Potassium	NV	NV	120,480	120,479.98	NV	6.37			6.22			3.57			3.4			35.5			18.1			10.5		
Sodium	NV	NV	19,972,499	19,972,499.00	NV	1880			1830			152			140			8390			766			142		
Thallium	NV	2	2	15.00	NV	0.005	U		0.005	U		0.005	U		**0.0051**	J		0.05	U		0.005	U		**0.0071**	J	
Vanadium	NV	NV	73.8	73.73	NV	0.047			0.047			0.05			0.047			0.68			0.091			0.054		
Mercury	2	2	0.5	NV	0.44	0.000068	U		0.000068	U		0.000068	U		0.00007	J		0.000068	U		0.000068	U		0.000068	U	
Total TAL Metals Analysis (7470A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Mercury	2	2	0.5	NV	0.44	0.000068	U		0.000068	U		0.000068	U		0.000068	U		0.000068	U		0.000068	U		0.000068	U	
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	1.15	U		1.15	U		0.115	U		0.115	U		**20**	J		5.82			0.575	U	
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	NV	65956.58 [8]	**10000**		J	**24400**		J	**3770**			**3550**			**25500**			**5210**			**2890**		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environmental Department
UTL = Upper Tolerance Limit
TAL = Total Analyte List
µg/L = micrograms per liter
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NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value

Sample Identification Nomenclature
MW = Monitoring Well Sample
08 = Site identifier for SD-08
A = Sample suffix denoting a duplicate sample

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates analytical results above the NMED Approved Background Level, but below the New Mexico Groundwater Quality Standard and USEPA MCL

Table 5-2
Groundwater Analytical Data (April 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

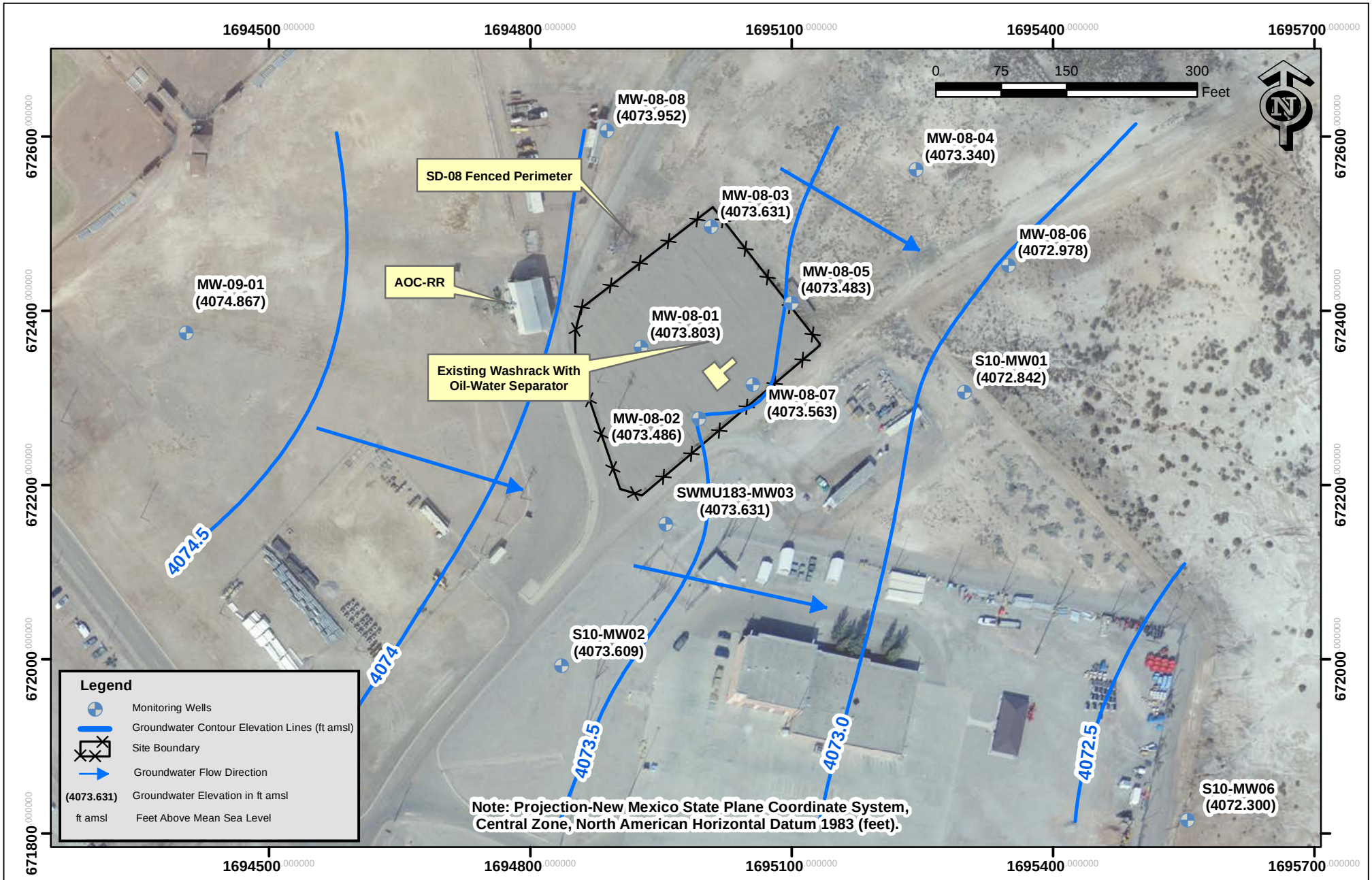
Client Sample Identification:	**Groundwater Screening Levels**		**Basewide Background**			MW-08-06			MW-08-07			MW-08-08			S10-MW01			S10-MW02			S10-MW06			SWMU183-MW03		
Lab Sample Identification:	**NMWQCC[1]**	**USEPA MCL [2]**	**NMED Approved Background Levels [3]**	**Dissolved Metals in Groundwater UTL [4]**	**Total Metals in Groundwater UTL [4]**	21304100601			21304100604			21304100610			21304100616			21304100612			21304100614			21304100613		
Date Sampled:						4/8/2013			4/8/2013			4/8/2013			4/9/2013			4/9/2013			4/9/2013			4/9/2013		
Analyte						**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**
Volatile Organic Compounds (8260B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
1,2-Dichloroethane	10	5	NV	NV	NV	0.116	U		**89.2**			0.116	U		**16**			0.116	U		0.116	U		0.116	U	
1,2-Dichloropropane	NV	5	NV	NV	NV	0.15	U		1.34	J		0.15	U		0.15	U		0.15	U		0.15	U		0.15	U	
Acetone	NV	NV	NV	NV	NV	0.193	U		0.193	U		0.193	U		0.193	U		0.193	U		0.193	U		0.193	U	
Benzene	10	5	NV	NV	NV	0.111	U		0.111	U		0.111	U		0.111	U		0.111	U		0.111	U		0.111	U	
Chloroform	100	NV	NV	NV	NV	0.155	U		0.155	U		0.155	U		0.155	U		0.155	U		0.155	U		0.155	U	
sec-Butylbenzene	NV	NV	NV	NV	NV	0.107	U		0.107	U		0.107	U		0.107	U		0.107	U		0.107	U		0.107	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U	
Dissolved TAL Metals Analysis (6010B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Arsenic	100	10	10	28.53	NV	**0.023**			**0.056**			0.05	U		**0.031**			**0.016**	J		**0.028**			**0.016**	J	
Barium	1,000	2,000	30.2	30.13	NV	0.0061	J		0.01			0.025	U		0.0074	J		0.0079	J		0.0073	J		0.0089	J	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	556			663			841			579			567			472			507		
Cobalt	50	NV	2.6	2.60	NV	0.0025	U		0.0032	J		0.025	U		0.0025	U		0.0025	U		0.0025	U		0.0025	U	
Copper	1,000	1,300	22	57.46	NV	0.005	U		0.018	J		0.24			0.013	J		0.016	J		0.011	J		0.018	J	
Iron	1,000	300 [7]	65.6	65.56	NV	0.05	U		0.05	U		0.5	U		0.05	U		0.05	U		0.05	U		0.05	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	876			199			1620			534			250			639			198		
Manganese	200	50 [7]	50	118.65	NV	0.0038	U		**1.5**			0.038	U		**0.35**			0.0038	U		**0.059**			**0.7**		
Potassium	NV	NV	120,480	120,479.98	NV	26.3			6.37			44.9			20.8			17.5			37.9			6.94		
Sodium	NV	NV	19,972,499	19,972,499.00	NV	4950			569			7330			2620			102			3600			1190		
Thallium	NV	2	2	15.00	NV	**0.0065**	J		**0.0063**	J		0.05	U		**0.0079**	J		0.005	U		**0.005**	J		**0.0059**	J	
Vanadium	NV	NV	73.8	73.73	NV	0.1			0.055			0.63			0.098			0.09			0.11			0.07		
Mercury	2	2	0.5	NV	0.44	0.000068	U		0.000068	U		0.000068	U		0.000068	U		0.000068	U		0.000068	U		0.000068	U	
Total TAL Metals Analysis (7470A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Mercury	2	2	0.5	NV	0.44	0.000068	U		0.000068	U		0.000068	U		0.000068	U		0.000068	U		0.000068	U		0.000068	U	
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	**18.4**			0.638	J		**38**			3.79	J		**13**			**49.3**			**36.1**		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	NV	65956.58 [8]	**23800**			**4530**			**26900**			**9600**			**3590**			**14900**			**6120**		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environmental Department
UTL = Upper Tolerance Limit
TAL = Total Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value

Sample Identification Nomenclature
MW = Monitoring Well Sample
08 = Site identifier for SD-08
A = Sample suffix denoting a duplicate sample

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates analytical results above the NMED Approved Background Level, but below the New Mexico Groundwater Quality Standard and USEPA MCL



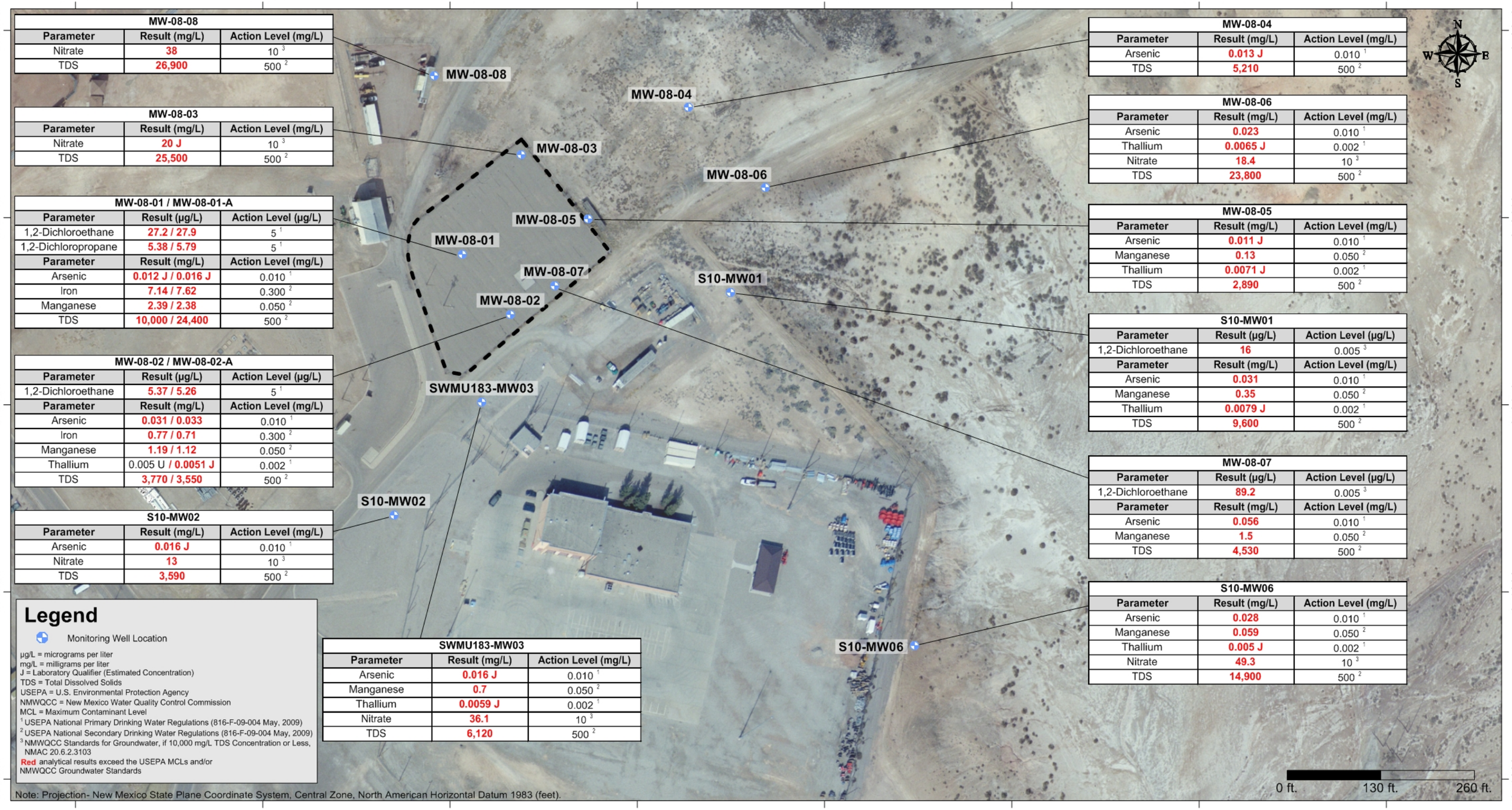
NATIONVIEW

Site SD-08
Potentiometric Map
(April 2013)

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1"=150'	5/15/13	cm
			DRAWING NO: fig4-2

SD-08
Long Term Monitoring Report
Quarter 6, Spring 2013
Holloman Air Force Base, New Mexico

Figure 4-2



MW-08-08		
Parameter	Result (mg/L)	Action Level (mg/L)
Nitrate	38	10 [3]
TDS	26,900	500 [2]

MW-08-03		
Parameter	Result (mg/L)	Action Level (mg/L)
Nitrate	20 J	10 [3]
TDS	25,500	500 [2]

MW-08-01 / MW-08-01-A		
Parameter	Result (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	27.2 / 27.9	5 [1]
1,2-Dichloropropane	5.38 / 5.79	5 [1]
Parameter	Result (mg/L)	Action Level (mg/L)
Arsenic	0.012 J / 0.016 J	0.010 [1]
Iron	7.14 / 7.62	0.300 [2]
Manganese	2.39 / 2.38	0.050 [2]
TDS	10,000 / 24,400	500 [2]

MW-08-02 / MW-08-02-A		
Parameter	Result (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	5.37 / 5.26	5 [1]
Parameter	Result (mg/L)	Action Level (mg/L)
Arsenic	0.031 / 0.033	0.010 [1]
Iron	0.77 / 0.71	0.300 [2]
Manganese	1.19 / 1.12	0.050 [2]
Thallium	0.005 U / 0.0051 J	0.002 [1]
TDS	3,770 / 3,550	500 [2]

S10-MW02		
Parameter	Result (mg/L)	Action Level (mg/L)
Arsenic	0.016 J	0.010 [1]
Nitrate	13	10 [3]
TDS	3,590	500 [2]

SWMU183-MW03		
Parameter	Result (mg/L)	Action Level (mg/L)
Arsenic	0.016 J	0.010 [1]
Manganese	0.7	0.050 [2]
Thallium	0.0059 J	0.002 [1]
Nitrate	36.1	10 [3]
TDS	6,120	500 [2]

MW-08-04		
Parameter	Result (mg/L)	Action Level (mg/L)
Arsenic	0.013 J	0.010 [1]
TDS	5,210	500 [2]

MW-08-06		
Parameter	Result (mg/L)	Action Level (mg/L)
Arsenic	0.023	0.010 [1]
Thallium	0.0065 J	0.002 [1]
Nitrate	18.4	10 [3]
TDS	23,800	500 [2]

MW-08-05		
Parameter	Result (mg/L)	Action Level (mg/L)
Arsenic	0.011 J	0.010 [1]
Manganese	0.13	0.050 [2]
Thallium	0.0071 J	0.002 [1]
TDS	2,890	500 [2]

S10-MW01		
Parameter	Result (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	16	0.005 [3]
Parameter	Result (mg/L)	Action Level (mg/L)
Arsenic	0.031	0.010 [1]
Manganese	0.35	0.050 [2]
Thallium	0.0079 J	0.002 [1]
TDS	9,600	500 [2]

MW-08-07		
Parameter	Result (µg/L)	Action Level (µg/L)
1,2-Dichloroethane	89.2	0.005 [3]
Parameter	Result (mg/L)	Action Level (mg/L)
Arsenic	0.056	0.010 [1]
Manganese	1.5	0.050 [2]
TDS	4,530	500 [2]

S10-MW06		
Parameter	Result (mg/L)	Action Level (mg/L)
Arsenic	0.028	0.010 [1]
Manganese	0.059	0.050 [2]
Thallium	0.005 J	0.002 [1]
Nitrate	49.3	10 [3]
TDS	14,900	500 [2]

Legend

Monitoring Well Location

µg/L = micrograms per liter
mg/L = milligrams per liter
J = Laboratory Qualifier (Estimated Concentration)
TDS = Total Dissolved Solids
USEPA = U.S. Environmental Protection Agency
NMWQCC = New Mexico Water Quality Control Commission
MCL = Maximum Contaminant Level
[1] USEPA National Primary Drinking Water Regulations (816-F-09-004 May, 2009)
[2] USEPA National Secondary Drinking Water Regulations (816-F-09-004 May, 2009)
[3] NMWQCC Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, NMAC 20.6.2.3103
Red analytical results exceed the USEPA MCLs and/or NMWQCC Groundwater Standards

Note: Projection- New Mexico State Plane Coordinate System, Central Zone, North American Horizontal Datum 1983 (feet).

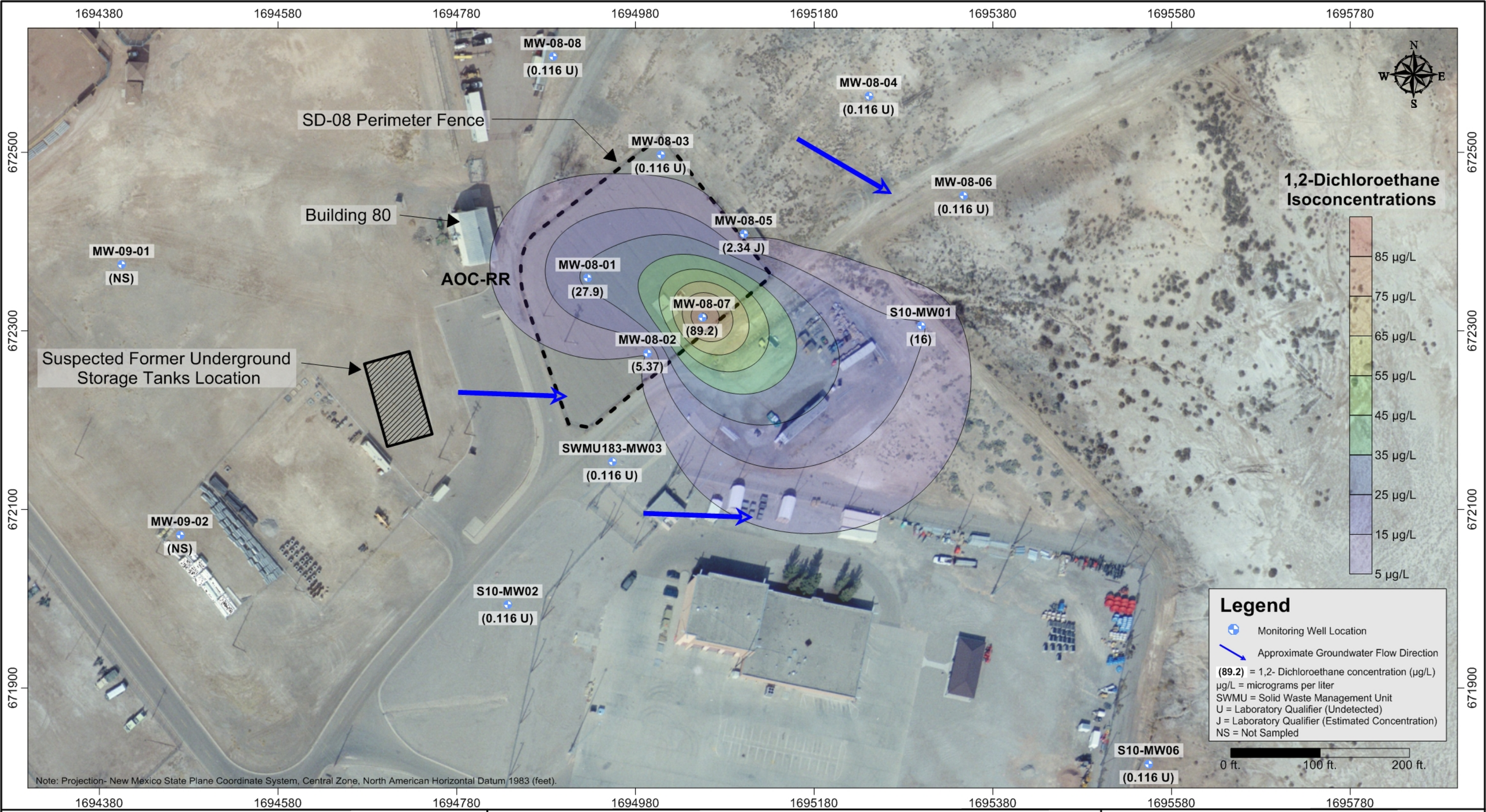
NATIONVIEW

Site SD-08 Groundwater Analytical Results Above Action Levels (April 2013)

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1" = 130'	5/16/2013	dtm
			DRAWING NO: Fig. 5-1

SD-08 Long Term Monitoring Report
Quarter 6, Spring 2013
Holloman Air Force Base, New Mexico

Figure 5-1



NATIONVIEW

Site SD-08
1,2-Dichloroethane Isocontour Map (April 2013)

PROJECT NO.	SCALE	DATE	DRAWN BY:
10-0004	1" = 100'	5/16/2013	dtm
			DRAWING NO: Fig. 5-2

SD-08 Long Term Monitoring Report
Quarter 6, Spring 2013
Holloman Air Force Base, New Mexico

Figure 5-2

A-7-8

SD-08 LTM Report Quarter 7, Summer 2013, HAFB, NM (NationView, 2014a)

REVISED FINAL

SD-08 (SOLID WASTE MANAGEMENT UNIT – 82) LONG TERM MONITORING REPORT

QUARTER 7, SUMMER 2013

HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared For:

49 CES/CEAN
Holloman Air Force Base
New Mexico

Under Contract to:

U.S. Army Corps of Engineers
Omaha District
1616 Capitol Avenue
Omaha, Nebraska 68102-1618

Contract No. W9128F-09-D-0055
Delivery Order 003

January 2014

Prepared By

NATIONVIEW

1608 13th Avenue South, Suite 160
Birmingham, Alabama 35205
NationView Project No. 10-0004

Table 4-1
Groundwater Elevation Summary (August 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Well Point Number	Northing (UTM meters)	Easting (UTM meters)	Elevation TOC (ft above msl)	August 14, 2013 DTW from TOC (ft below TOC)	Groundwater Elevation August 14, 2013 (ft above msl)
MW-08-01	3634971.461	399637.973	4088.273	13.56	4074.713
MW-08-02	3634945.696	399658.149	4088.726	14.26	4074.466
MW-08-03	3635013.345	399663.352	4087.971	13.1	4074.871
MW-08-04	3635032.485	399734.579	4085.640	10.90	4074.740
MW-08-05	3634985.891	399691.393	4086.543	11.67	4074.873
MW-08-06	3634998.180	399766.517	4084.648	10.51	4074.138
MW-08-07	3634957.670	399676.883	4085.403	10.79	4074.613
MW-08-08	3635047.194	399626.968	4085.072	10.07	4075.002
MW-09-01	3634977.965	399479.072	4085.437	10.09	4075.347
SD08-MW10	3634973.540	399604.2681	4086.683	11.64	4075.043
SD08-MW11	3634929.961	399582.7143	4088.027	13.51	4074.517
SD08-MW12	3634976.038	399863.7146	4076.212	3.27	4072.942
SD08-MW13	3634881.186	399846.4628	4074.681	1.93	4072.751
S10-MW01	3634953.884	399751.455	4086.882	13.50	4073.382
S10-MW02	3634860.324	399609.385	4088.499	14.07	4074.429
S10-MW06 [1]	3634803.437	399827.361	4083.500	10.67	4072.830
SWMU183-MW03	3634908.694	399645.623	4086.261	11.85	4074.411

Notes:
UTM = Universal Transverse Mercator
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level
[1] S10-MW06 not included in the January 2012 survey conducted by NationView

Table 5-1
Groundwater Analytical Data (July 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	Groundwater Screening Levels		Basewide Background			MW-08-01			MW-08-02			MW-08-03			MW-08-04			MW-08-05			MW-08-06		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	Total Metals in Groundwater UTL [4]	21307300202			21307300203			21307300201			21307240701			21307240703			21307231904		
Date Sampled:						7/29/2013			7/29/2013			7/29/2013			7/23/2013			7/23/2013			7/22/2013		
Analyte						Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (8260B)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
1,2-Dichloroethane	10	5	NV	NV	NV	**45.4**			**10.8**			0.116	U		0.116	U		0.116	U		0.116	U	
1,2-Dichloropropane	NV	5	NV	NV	NV	**6.72**			0.15	U		0.15	U		0.15	U		0.15	U		0.15	U	
Acetone	NV	NV	NV	NV	NV	4.78	J		0.193	U		0.193	U		0.193	U		0.193	U		0.193	U	
Benzene	10	5	NV	NV	NV	0.778	J		0.111	U		0.111	U		0.111	U		0.111	U		0.111	U	
Chloroform	100	NV	NV	NV	NV	0.155	U		0.155	U		0.155	U		0.155	U		0.155	U		0.784	J	
Ethylbenzene	750	700	NV	NV	NV	0.473	J		0.109	U		0.109	U		0.109	U		0.109	U		0.109	U	
Isopropylbenzene (Cumene)	NV	NV	NV	NV	NV	0.13	U		0.13	U		0.13	U		0.13	U		0.13	U		0.13	U	
Trichloroethene	100	5	NV	NV	NV	0.161	U		0.161	U		0.159	U		0.161	U		0.161	U		0.193	U	
n-Propylbenzene	NV	NV	NV	NV	NV	0.727	U		0.727	U		0.727	U		0.727	U		0.727	U		0.727	U	
sec-Butylbenzene	NV	NV	NV	NV	NV	0.604	J		0.107	U		0.107	U		0.107	U		0.107	U		0.107	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.984	J		0.349	J		0.087	U		0.087	U		0.087	U		0.087	U	
Dissolved TAL Metals Analysis (6010B)	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Aluminum	5000	NV	54	54	NV	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.5	U	
Arsenic	100	10	10	28.53	NV	0.0050	U		0.0050	U		0.005	U		0.005	U		0.005	U		0.05	U	
Barium	1,000	2,000	30.2	30.13	NV	0.0089	J		0.012			0.0039	J		0.01			0.016			0.025	U	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	387			470			458			483			544			583		
Cobalt	50	NV	2.6	2.60	NV	0.0025	U		0.0025	U		0.0025	U		0.0025	U		0.0025	U		0.0025	U	
Copper	1,000	1,300	22	57.46	NV	0.0050	U		0.0050	U		0.005	U		0.005	U		0.005	U		0.19	J	
Iron	1,000	300 [7]	65.6	65.56	NV	**7.11**			**0.90**			0.05	U		0.05	U		0.5	U		0.05	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	519			155			588			292			58.4			1230		
Manganese	200	50 [7]	50	118.65	NV	**2.47**			**1.08**			0.0038	U		0.0038	U		0.016			0.038	U	
Potassium	NV	NV	120,480	120,479.98	NV	6.20			3.78			20.1			15.5			6.9			31.0		
Sodium	NV	NV	19,972,499	19,972,499.00	NV	1780			193			2520			668			77.8			6430		
Thallium	NV	2	2	15.00	NV	0.005	U		0.005	U		0.005	U		0.005	U		0.005	U		0.05	U	
Vanadium	NV	NV	73.8	73.73	NV	0.005	U		0.005	U		0.029	U		0.025			0.0075	J		0.65		
Zinc	10,000	5,000	23.0	56.28		0.005	U		0.005	U		0.005			0.005	U		0.005	U		0.05	U	
Mercury	2	2	0.5	NV	0.44	0.000068	U		0.000068	U		0.000068	U		0.000068	U		0.000068	U		0.000068	U	
Total TAL Metals Analysis (7470A)	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Mercury	2	2	0.5	NV	0.44	0.000068	U		0.000068	U		0.000068	U		0.0001	J		0.000068	U		0.000068	U	
General Chemistry	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	0.200	U		0.1	U		**10.8**			6.1			0.351	J		**13.2**	J	
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	NV	65956.58 [8]	**9100**			**3710**			**11700**			**5590**			**2950**			**25300**		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environmental Department
UTL = Upper Tolerance Limit
TAL = Total Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value

Sample Identification Nomenclature
MW = Monitoring Well Sample
08 = Site identifier for SD-08
A = Sample suffix denoting a duplicate sample

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
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[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
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Indicates analytical results above the NMED Approved Background Level, but below the New Mexico Groundwater Quality Standard and USEPA MCL

Table 5-1
Groundwater Analytical Data (July 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	**Groundwater Screening Levels**		**Basewide Background**			MW-08-07			MW-08-08			SD08-MW10			SD08-MW11			SD08-MW12			SD08-MW13		
Lab Sample Identification:	**NMWQCC[1]**	**USEPA MCL [2]**	**NMED Approved Background Levels [3]**	**Dissolved Metals in Groundwater UTL [4]**	**Total Metals in Groundwater UTL [4]**	21307300204			21307240702			21308011503			21308011502			21307231903			21308011501		
Date Sampled:						7/29/2013			7/23/2013			7/31/2013			7/31/2013			7/22/2013			7/31/2013		
Analyte						**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**	**Result [5]**	**Q**	**Q1**
Volatile Organic Compounds (8260B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
1,2-Dichloroethane	10	5	NV	NV	NV	**39.9**			0.116	U		0.116	U		**80.5**			0.116	U		0.116	U	
1,2-Dichloropropane	NV	5	NV	NV	NV	1.12	J		0.15	U		0.15	U		**5.37**			0.15	U		0.15	U	
Acetone	NV	NV	NV	NV	NV	0.193	U		0.193	U		1.43	J		0.193	U		0.193	U		0.193	U	
Benzene	10	5	NV	NV	NV	0.111	U		0.111	U		**58.4**			0.111	U		0.111	U		0.111	U	
Chloroform	100	NV	NV	NV	NV	0.155	U		0.155	U		0.155	U		0.155	U		0.155	U		0.155	U	
Ethylbenzene	750	700	NV	NV	NV	0.109	U		0.109	U		6.14			0.109	U		0.109	U		0.109	U	
Isopropylbenzene (Cumene)	NV	NV	NV	NV	NV	0.13	U		0.13	U		4.58	J		1.28	J		0.13	U		0.13	U	
Trichloroethene	100	5	NV	NV	NV	0.161	U		0.161	U		0.161	U		0.161	U		0.161	U		0.161	U	
n-Propylbenzene	NV	NV	NV	NV	NV	0.727	U		0.727	U		7.79			0.727	U		0.727	U		0.727	U	
sec-Butylbenzene	NV	NV	NV	NV	NV	0.107	U		0.107	U		0.107	U		0.107	U		0.107	U		0.107	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U	
Dissolved TAL Metals Analysis (6010B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Aluminum	5000	NV	54	54	NV	0.05	U		0.25	U		0.064	J		0.5	U		0.5	J		0.25	U	
Arsenic	100	10	10	28.53	NV	**0.025**			0.025	U		**0.043**			0.05	U		**0.064**	J		0.025	U	
Barium	1,000	2,000	30.2	30.13	NV	0.01			0.013	U		0.019	U		0.029	J		0.026	J		0.013	U	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	545			644			473			491			753			604		
Cobalt	50	NV	2.6	2.60	NV	0.0025	U		0.013	U		0.0051	J		0.025	U		0.025	U		0.013	U	
Copper	1,000	1,300	22	57.46	NV	0.005	U		0.025	U		0.016	J		0.2			0.24			0.096	J	
Iron	1,000	300 [7]	65.6	65.56	NV	0.05	U		1.00	U		0.54			0.5	U		0.5	U		0.25	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	168			1770			261			1000			3520			1800		
Manganese	200	50 [7]	50	118.65	NV	**1.16**			**0.095**			**2.13**			**2.57**			**0.069**	J		0.019	U	
Potassium	NV	NV	120,480	120,479.98	NV	5.54			39.9			5.28			23.9			85.3			57		
Sodium	NV	NV	19,972,499	19,972,499.00	NV	429			7330			296			5450			14300			8230		
Thallium	NV	2	2	15.00	NV	0.005	U		0.025	U		0.005	U		0.05	U		0.05	U		0.025	U	
Vanadium	NV	NV	73.8	73.73	NV	0.014	J		0.025			0.061			0.58			0.83			0.4		
Zinc	10,000	5,000	23.0	56.28		0.0061	J		0.025	U		0.005	U		0.05			0.05	U		0.025	U	
Mercury	2	2	0.5	NV	0.44	0.000068	U		0.0001	J		0.0001	J	J	0.000068	U		0.000068	U		0.000091	J	J
Total TAL Metals Analysis (7470A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Mercury	2	2	0.5	NV	0.44	0.000068	U		0.00011	J		0.0001	J	J	0.000097	J	J	0.000068	U		0.00011	J	J
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	1.69	J		**15.9**	J		0.02	U		1	U		4.95	J		9.74	J	
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	NV	65956.58 [8]	**4180**			**39500**			**4210**			**24000**			**69700**			**39800**		

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Table 5-1
Groundwater Analytical Data (July 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	Groundwater Screening Levels		Basewide Background			S10-MW01			S10-MW01A			S10-MW02			S10-MW06			S10-MW06A			SWMU183-MW03		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	Total Metals in Groundwater UTL [4]	21307240704			21307240705			21308011504			21307231901			21307231902			21307300205		
Date Sampled:						7/23/2013			7/23/2013			7/31/2013			7/22/2013			7/22/2013			7/29/2013		
Analyte						Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (8260B)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
1,2-Dichloroethane	10	5	NV	NV	NV	**12.7**	U		**12.4**			0.116	U		0.116	U		0.116	U		0.116	U	
1,2-Dichloropropane	NV	5	NV	NV	NV	0.269	J	J	0.456	J	J	0.15	U		0.15	U		0.15	U		0.15	U	
Acetone	NV	NV	NV	NV	NV	0.193	U		0.193	U		0.193	U		0.193	U		0.193	U		0.193	U	
Benzene	10	5	NV	NV	NV	0.111	U		0.111	U		0.111	U		0.111	U		0.111	U		0.111	U	
Chloroform	100	NV	NV	NV	NV	0.155	U		0.155	U		0.155	U		0.155	U		0.155	U		0.155	U	
Ethylbenzene	750	700	NV	NV	NV	0.109	U		0.109	U		0.109	U		0.109	U		0.109	U		0.109	U	
Isopropylbenzene (Cumene)	NV	NV	NV	NV	NV	0.13	U		0.13	U		0.13	U		0.13	U		0.13	U		0.13	U	
Trichloroethene	100	5	NV	NV	NV	0.443	J	J	2.38	J	J	0.161	U		0.193	U		0.161	U		0.161	U	
n-Propylbenzene	NV	NV	NV	NV	NV	0.727	U		0.727	U		0.727	U		0.727	U		0.727	U		0.123	U	
sec-Butylbenzene	NV	NV	NV	NV	NV	0.107	U		0.107	U		0.107	U		0.107	U		0.107	U		0.107	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U	
Dissolved TAL Metals Analysis (6010B)	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Aluminum	5000	NV	54	54	NV	0.05	U		0.05	U		0.05	U		0.5	U		0.5	U		0.05	U	
Arsenic	100	10	10	28.53	NV	0.005	U		0.005	U		0.0071	J		0.05	U		0.05	U		0.005	U	
Barium	1,000	2,000	30.2	30.13	NV	0.0071	J		0.0063	J		0.0082	J		0.025	U		0.025	U		0.011		
Calcium	NV	NV	1,151,302	1,151,301.20	NV	461			443			507			439			462			482		
Cobalt	50	NV	2.6	2.60	NV	0.0025	U		0.0025	U		0.0025	U		0.0025	U		0.0025	U		0.0025	U	
Copper	1,000	1,300	22	57.46	NV	0.005	U		0.005	U		0.018	J		0.15	J		0.15	J		0.005	U	
Iron	1,000	300 [7]	65.6	65.56	NV	0.5	U		0.5	U		0.05	U		0.05	U		0.05	U		0.05	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	571			521			257			588			654			230		
Manganese	200	50 [7]	50	118.65	NV	**0.16**			**0.16**			0.0038	U		**0.19**			**0.14**	J		**1.13**		
Potassium	NV	NV	120,480	120,479.98	NV	20.8			19.8			14.1			29.4			31.3			7.98		
Sodium	NV	NV	19,972,499	19,972,499.00	NV	2860			2580			102			3210			3470			1110		
Thallium	NV	2	2	15.00	NV	0.005	U		0.005	U		0.005	U		0.05	U		0.05	U		0.005	U	
Vanadium	NV	NV	73.8	73.73	NV	0.039			0.039	U		0.1			0.45			0.46			0.015	J	
Zinc	10,000	5,000	23.0	56.28		0.005	U		0.005			0.005	U		0.05	U		0.05	U		0.0053	J	
Mercury	2	2	0.5	NV	0.44	0.000068	U		0.00009	J		0.000096	J	J	0.000068	U		0.000068	U		0.000068	U	
Total TAL Metals Analysis (7470A)	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Mercury	2	2	0.5	NV	0.44	0.000068	U		0.000068	U		0.00012	J	J	0.000068	U		0.000068	U		0.000068	U	
General Chemistry	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	4.1	J		4.23	J		**10.7**			**46.7**			**45.7**			**24.2**		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	NV	65956.58 [8]	**13700**			**13100**			**3760**			**15000**			**15200**			**6430**		

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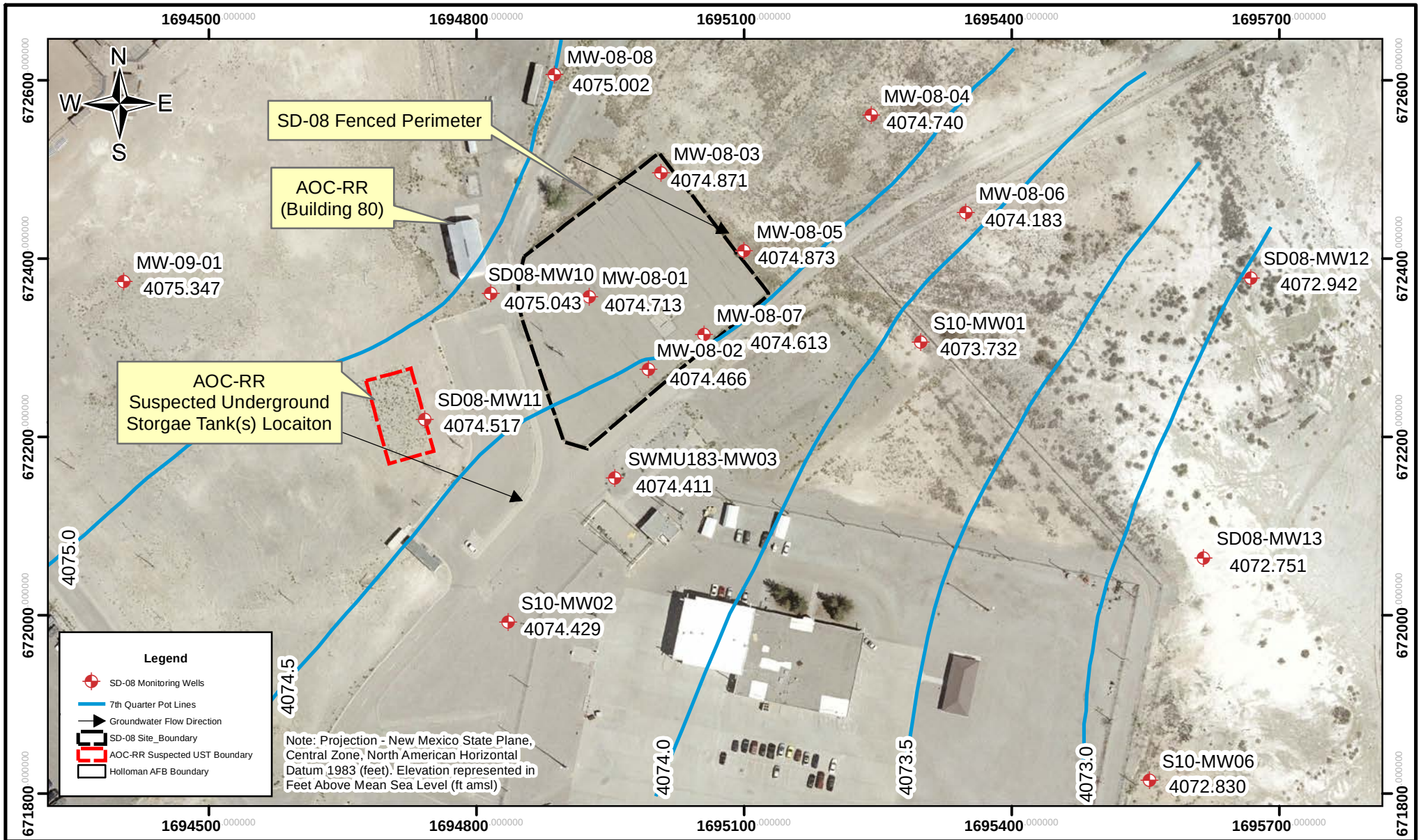
Indicates analytical results above the NMED Approved Background Level, but below the New Mexico Groundwater Quality Standard and USEPA MCL



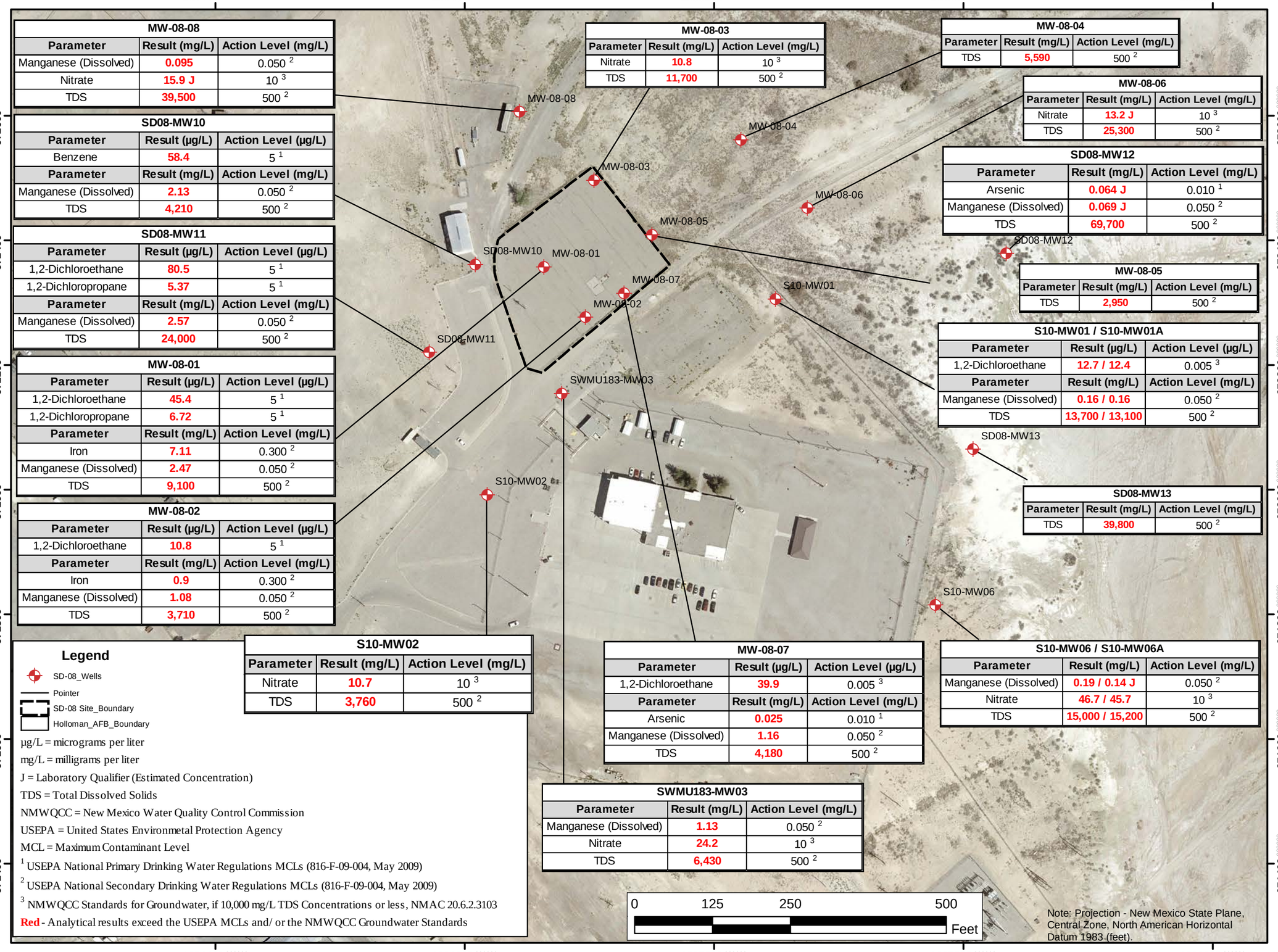
NATIONVIEW

SD-08
Groundwater Potentiometric Map
(July 2013)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
10-0004	0 55 110 220 Feet	1/20/14	FRE
			DRAWING NO: Figure 4-2

SD-08
Long Term Monitoring Report
Quarter 7, Summer 2013
Holloman Air Force Base, New Mexico

Figure 4-2



MW-08-08		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (Dissolved)	0.095	0.050 [2]
Nitrate	15.9 J	10 [3]
TDS	39,500	500 [2]

SD08-MW10		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
Benzene	58.4	5 [1]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (Dissolved)	2.13	0.050 [2]
TDS	4,210	500 [2]

SD08-MW11		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	80.5	5 [1]
1,2-Dichloropropane	5.37	5 [1]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (Dissolved)	2.57	0.050 [2]
TDS	24,000	500 [2]

MW-08-01		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	45.4	5 [1]
1,2-Dichloropropane	6.72	5 [1]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Iron	7.11	0.300 [2]
Manganese (Dissolved)	2.47	0.050 [2]
TDS	9,100	500 [2]

MW-08-02		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	10.8	5 [1]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Iron	0.9	0.300 [2]
Manganese (Dissolved)	1.08	0.050 [2]
TDS	3,710	500 [2]

MW-08-03		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Nitrate	10.8	10 [3]
TDS	11,700	500 [2]

MW-08-04		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	5,590	500 [2]

MW-08-06		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Nitrate	13.2 J	10 [3]
TDS	25,300	500 [2]

SD08-MW12		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Arsenic	0.064 J	0.010 [1]
Manganese (Dissolved)	0.069 J	0.050 [2]
TDS	69,700	500 [2]

MW-08-05		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	2,950	500 [2]

S10-MW01 / S10-MW01A		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	12.7 / 12.4	0.005 [3]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (Dissolved)	0.16 / 0.16	0.050 [2]
TDS	13,700 / 13,100	500 [2]

SD08-MW13		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	39,800	500 [2]

S10-MW02		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Nitrate	10.7	10 [3]
TDS	3,760	500 [2]

MW-08-07		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	39.9	0.005 [3]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Arsenic	0.025	0.010 [1]
Manganese (Dissolved)	1.16	0.050 [2]
TDS	4,180	500 [2]

S10-MW06 / S10-MW06A		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (Dissolved)	0.19 / 0.14 J	0.050 [2]
Nitrate	46.7 / 45.7	10 [3]
TDS	15,000 / 15,200	500 [2]

SWMU183-MW03		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (Dissolved)	1.13	0.050 [2]
Nitrate	24.2	10 [3]
TDS	6,430	500 [2]

Legend

- SD-08_Wells
- Pointer
- SD-08 Site_Boundary
- Holloman_AFB_Boundary

µg/L = micrograms per liter
mg/L = milligrams per liter
J = Laboratory Qualifier (Estimated Concentration)
TDS = Total Dissolved Solids
NMWQCC = New Mexico Water Quality Control Commission
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MCL = Maximum Contaminant Level
[1] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[2] USEPA National Secondary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] NMWQCC Standards for Groundwater, if 10,000 mg/L TDS Concentrations or less, NMAC 20.6.2.3103
Red - Analytical results exceed the USEPA MCLs and/ or the NMWQCC Groundwater Standards

Note: Projection - New Mexico State Plane, Central Zone, North American Horizontal Datum 1983 (feet).

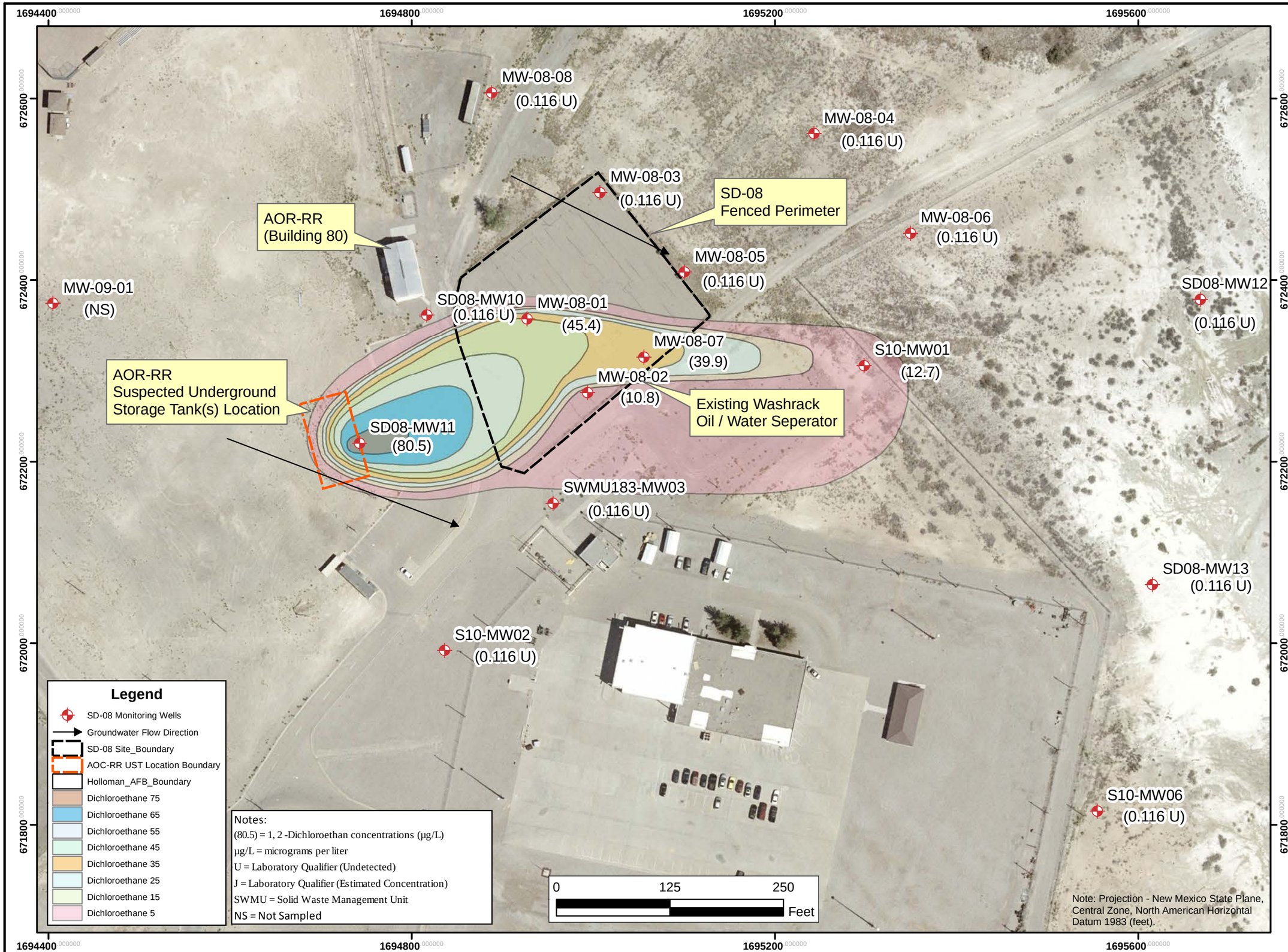
SD-08
Long Term Monitoring Report
Quarter 7, Summer 2013
Holloman Air Force Base, New Mexico

Figure 5-1

SD-08
Groundwater Analytical Results
Above Action Levels
(July 2013)

DRAWN BY: FRE
DRAWING NO.: Figure 5-1
DATE: 1/20/14
SCALE: 1" = 250'
PROJECT NO: 10-0004

NATIONVIEW



SD-08
Long Term Monitoring Report
Quarter 7, Summer 2013
Holloman Air Force Base, New Mexico

Figure 5-2

SD-08
Dichloroethane Isocontour Map
(July 2013)

DRAWN BY:	FRE
DRAWING NO.:	Figure 5-2
DATE:	1/20/14
SCALE:	1" = 125'
PROJECT NO:	10-0004

NATIONVIEW

A-7-9

SD-08 LTM Report Quarter 8, Fall 2013, HAFB, NM (NationView, 2014b)

FINAL
SD-08 (SOLID WASTE MANAGEMENT UNIT – 82)
LONG TERM MONITORING REPORT
QUARTER 8, FALL 2013
HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared For:

49 CES/CEAN
Holloman Air Force Base
New Mexico

Under Contract to:

U.S. Army Corps of Engineers
Omaha District
1616 Capitol Avenue
Omaha, Nebraska 68102-1618

Contract No. W9128F-09-D-0055
Delivery Order 003

February 2014

Prepared By

1608 13th Avenue South, Suite 160
Birmingham, Alabama 35205
NationView Project No. 10-0004

Table 4-1
Groundwater Elevation Summary (Fall 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Well Point Number	Northing (UTM meters)	Easting (UTM meters)	Elevation TOC (ft above msl)	November 4, 2013 DTW from TOC (ft below TOC)	Groundwater Elevation November 4, 2013 (ft above msl)
MW-08-01	3634971.461	399637.973	4088.273	12.96	4075.313
MW-08-02	3634945.696	399658.149	4088.726	13.73	4074.996
MW-08-03	3635013.345	399663.352	4087.971	12.69	4075.281
MW-08-04	3635032.485	399734.579	4085.640	10.69	4074.950
MW-08-05	3634985.891	399691.393	4086.543	11.73	4074.813
MW-08-06	3634998.180	399766.517	4084.648	10.25	4074.398
MW-08-07	3634957.670	399676.883	4085.403	10.33	4075.073
MW-08-08	3635047.194	399626.968	4085.072	9.33	4075.742
MW-09-01	3634977.965	399479.072	4085.437	9.26	4076.177
SD08-MW10	3634973.540	399604.2681	4086.683	11.16	4075.523
SD08-MW11	3634929.961	399582.7143	4088.027	12.74	4075.287
SD08-MW12	3634976.038	399863.7146	4076.212	3.18	4073.032
SD08-MW13	3634881.186	399846.4628	4074.681	1.66	4073.021
S10-MW01	3634953.884	399751.455	4086.882	12.67	4074.212
S10-MW02	3634860.324	399609.385	4088.499	13.16	4075.339
S10-MW06	3634803.437	399827.361	4083.500	10.19	4073.310
SWMU183-MW03	3634908.694	399645.623	4086.261	11.15	4075.111

Notes:
UTM = Universal Transverse Mercator
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level

Table 5-1
Groundwater Analytical Data (November 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	Groundwater Screening Levels		Basewide Background			MW-08-01			MW-08-01A			MW-08-02			MW-08-03			MW-08-04			MW-08-05			MW-08-06		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	Total Metals in Groundwater UTL [4]	21311080904			21311080905			21311080902			21311080903			21311061108			21311061109			21311061105		
Date Sampled:						11/7/2013			11/7/2013			11/6/2013			11/7/2013			11/5/2013			11/5/2013			11/5/2013		
Analyte						Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (8260B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
1,2-Dichlorobenzene	NV	600	NV	NV	NV	0.257	J		0.258	J		0.135	U		0.135	U		0.135	U		0.135	U		0.135	U	
1,2-Dichloroethane	10	5	NV	NV	NV	**26.1**		J	**42.2**		J	4.02	J		0.116	U		0.116	U		0.116	U		0.116	U	
1,2-Dichloropropane	NV	5	NV	NV	NV	**5.25**			**6.47**			0.15	U		0.15	U		0.15	U		0.059	U		0.15	U	
Acetone	NV	NV	NV	NV	NV	5.74			4.55	J		0.193	U		0.193	U		0.193	U		0.193	U		0.193	U	
Benzene	10	5	NV	NV	NV	1.25	J	J	0.534	J	J	0.111	U		0.111	U		0.111	U		0.111	U		0.111	U	
Ethylbenzene	750	700	NV	NV	NV	0.785	J	J	0.276	J	J	0.109	U		0.109	U		0.109	U		0.109	U		0.109	U	
Isopropylbenzene (Cumene)	NV	NV	NV	NV	NV	0.13	U		0.13	U		0.13	U		0.13	U		0.13	U		0.13	U		0.13	U	
n-Propylbenzene	NV	NV	NV	NV	NV	0.727	U		0.727	U		0.727	U		0.727	U		0.727	U		0.727	U		0.727	U	
sec-Butylbenzene	NV	NV	NV	NV	NV	0.341	J		0.370	J		0.107	U		0.107	U		0.107	U		0.107	U		0.107	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.832	J		0.837	J		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U	
Dissolved TAL Metals Analysis (6010C)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	6	6	10	NV	0.15	U		0.15	U		0.015	U		0.15	U		0.015	U		0.015	U		0.15	U	
Arsenic	100	10	10	28.53	NV	0.050	U		0.050	U		**0.014**	J		0.050	U		0.0074	J		0.005	U		**0.072**	J	
Barium	1,000	2,000	30.2	30.13	NV	0.025	U		0.025	U		0.015			0.025	U		0.011			0.019			0.025	U	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	490			477			593			540			489			616			494		
Chromium	50	100	3	2.50	NV	0.025	U		0.025	U		0.029			0.025	U		0.015			0.0025	U		0.025	U	
Cobalt	50	NV	2.6	2.60	NV	0.025	U		0.025	U		0.0042	J		0.025	U		0.0034	J		0.0041	J		0.0025	U	
Copper	1,000	1,300	22	57.46	NV	0.05	U		0.05	U		0.021			0.05	U		0.005	U		0.005	U		0.26		
Iron	1,000	300 [6]	65.6	65.56	NV	**8.10**			**7.97**			**1.15**			0.05	U		0.05	U		**1.31**			0.05	U	
Lead	50	15	9	9.00	NV	0.038U	U		0.038	U		0.0038	U		0.038	U		0.0038	U		0.0062	J		0.038	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	597			593			167			719			280			49.3			838		
Manganese	200	50 [6]	50	118.65	NV	**2.59**			**2.62**			**1.62**			0.038	U		0.0044	J		**0.13**			0.038	U	
Potassium	NV	NV	120,480	120,479.98	NV	5.08			4.48	J		4.06			16.6			18.4			7.21			23.5		
Silver	50	100 [6]	10	10.00	NV	0.025	U		0.043	J		0.0025	U		0.03	J		0.0025	U		0.0025	U		0.025	U	
Sodium	NV	NV	19,972,499	19,972,499.00	NV	1830			1770			163			2660			512			22.2			4560		
Thallium	NV	2	2	15.00	NV	0.05	U		0.05	U		0.012	J		0.005	U		0.005	U		0.005	U		0.05	U	
Vanadium	NV	NV	73.8	73.73	NV	0.092	J		0.11	J		0.021			0.16	J		0.047			0.013	J		0.55		
Zinc	10,000	5,000	23.0	56.28	NV	0.052	J		0.05	U		0.005	U		0.05	U		0.005	U		0.005	U		0.16	J	
Mercury	2	2	0.5	NV	0.44	0.000070	U		0.000070	U		0.000070	U		0.000070	U		0.000070	U		0.000070	U		0.000070	U	
Total TAL Metals Analysis (7470A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Mercury	2	2	0.5	NV	0.44	0.000070	U		0.000070	U		0.000070	U		0.000070	U		0.000070	U		0.000070	U		0.000070	U	
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	0.500	U		0.500	U		0.25	U		**11.6**			3.90			0.100	U		**16.7**		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [6]	NV	NV	65,956.58	**5710**			**5610**			**2990**			**16400**			**3080**			**2510**			**17600**		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environmental Department
UTL = Upper Tolerance Limit
TAL = Total Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value

Sample Identification Nomenclature
MW = Monitoring Well Sample
08 = Site identifier for SD-08
A = Sample suffix denoting a duplicate sample

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates analytical results above the NMED Approved Background Level, but below the New Mexico Groundwater Quality Standard and USEPA MCL

Table 5-1
Groundwater Analytical Data (November 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	Groundwater Screening Levels		Basewide Background			MW-08-07			MW-08-08			SD08-MW10			SD08-MW11			SD08-MW12			SD08-MW13			SD08-MW13A		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	Total Metals in Groundwater UTL [4]	21311080901			21311070905			21311070904			21311070903			21311061104			21311061102			21311061103		
Date Sampled:						11/6/2013			11/6/2013			11/6/2013			11/6/2013			11/4/2013			11/4/2013			11/4/2013		
Analyte						Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (8260B)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
1,2-Dichlorobenzene	NV	600	NV	NV	NV	0.135	U		0.135	U		0.138	U		0.135	U		0.135	U		0.135	U		0.135	U	
1,2-Dichloroethane	10	5	NV	NV	NV	**30.5**			0.116	U		0.116	U		**77.3**			0.116	U		0.116	U		0.116	U	
1,2-Dichloropropane	NV	5	NV	NV	NV	0.809	J		0.15	U		0.15	U		4.73	J		0.15	U		0.15	U		0.15	U	
Acetone	NV	NV	NV	NV	NV	0.193	U		0.193	U		0.193	U		0.193	U		0.193	U		0.193	U		0.193	U	
Benzene	10	5	NV	NV	NV	0.111	U		1.23	J		**62.9**			1.38	J		0.111	U		0.111	U		0.111	U	
Ethylbenzene	750	700	NV	NV	NV	0.109	U		0.109	U		1.94	J		0.109	U		0.109	U		0.109	U		0.109	U	
Isopropylbenzene (Cumene)	NV	NV	NV	NV	NV	0.13	U		0.13	U		14.3			1.38	J		0.13	U		0.13	U		0.13	U	
n-Propylbenzene	NV	NV	NV	NV	NV	0.727	U		0.727	U		30.6			0.727	U		0.727	U		0.727	U		0.727	U	
sec-Butylbenzene	NV	NV	NV	NV	NV	0.107	U		0.107	U		2.83	J		1.00	J		0.107	U		0.107	U		0.107	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U		0.087	U	
Dissolved TAL Metals Analysis (6010C)	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Antimony	NV	6	6	10	NV	0.015	U		0.15	U		0.015	U		0.15	U		0.15	U		0.15	U		0.15	U	
Arsenic	100	10	10	28.53	NV	**0.040**			0.050	U		**0.035**			0.050	U		0.050	U		0.050	U		0.050	U	
Barium	1,000	2,000	30.2	30.13	NV	0.012			0.025	U		0.023			0.026	J		0.025	U		0.025	U		0.025	U	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	575			708			505			487			593			655			674		
Chromium	50	100	3	2.50	NV	0.028			0.025	U		0.024			0.025	U		0.025	U		0.025	U		0.025	U	
Cobalt	50	NV	2.6	2.60	NV	0.0035	J		0.025	U		0.0057	J		0.025	U		0.025	U		0.025	U		0.025	U	
Copper	1,000	1,300	22	57.46	NV	0.021			0.05	U		0.022			0.05	U		0.37			0.35			0.32		
Iron	1,000	300 [6]	65.6	65.56	NV	0.067	J		0.50	U		**1.27**			0.50	U		0.50	U		0.50	U		0.50	U	
Lead	50	15	9	9.00	NV	0.0038	U		0.038	U		0.0038	U		0.04	J		0.038	U		0.038	U		0.038	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	195			1210			259			875			2890			2200			2270		
Manganese	200	50 [6]	50	118.65	NV	**1.35**			**0.89**			**2.57**			**2.30**			**0.066**	J		0.038	U		0.038	U	
Potassium	NV	NV	120,480	120,479.98	NV	5.57			49.9			5.77			23.4			85.1			67.0			68.6		
Silver	50	100 [6]	10	10.00	NV	0.0025	U		0.035	J		0.0025	U		0.04	J		0.025	U		0.025	U		0.025	U	
Sodium	NV	NV	19,972,499	19,972,499.00	NV	440			5200			226			4670			15300			10600			10500		
Thallium	NV	2	2	15.00	NV	0.014	J		0.05	U		0.011	J		0.05	U		0.05	U		0.050	U		0.050	U	
Vanadium	NV	NV	73.8	73.73	NV	0.039			0.15	J		0.018	J		0.13	J		0.60			0.63			0.63		
Zinc	10,000	5,000	23.0	56.28	NV	0.005	U		0.05	U		0.005	U		0.05	U		0.05	U		0.05	U		0.05	U	
Mercury	2	2	0.5	NV	0.44	0.000070	U		0.000070	U		0.000070	U		0.000070	U		0.000070	U		0.000070	U		0.000070	U	
Total TAL Metals Analysis (7470A)	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Mercury	2	2	0.5	NV	0.44	0.000070	U		0.000070	U		0.000070	U		0.000070	J		0.000070	U		0.000070	U		0.000070	U	
General Chemistry	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	1.49			**14.1**			0.25	U		2.5	U		**21.7**		J	**12.9**		J	**11.9**		J
Solids, Total Dissolved (SM 2540 C)	1,000	500 [6]	NV	NV	65,956.58	**3080**			**22600**			**2210**			**19400**			**59200**			**33500**			**37200**		

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environmental Department
UTL = Upper Tolerance Limit
TAL = Total Analyte List
µg/L = micrograms per liter
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Qualifiers
U = Not detected
J = Indicates an estimated value

Sample Identification Nomenclature
MW = Monitoring Well Sample
08 = Site identifier for SD-08
A = Sample suffix denoting a duplicate sample

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
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[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates analytical results above the NMED Approved Background Level, but below the New Mexico Groundwater Quality Standard and USEPA MCL

Table 5-1
Groundwater Analytical Data (November 2013)
Building 131 Washrack (SD-08)
Holloman Air Force Base, New Mexico
NationView Project No. 10-0004

Client Sample Identification:	Groundwater Screening Levels		Basewide Background			S10-MW01			S10-MW02			S10-MW06			SWMU183-MW03		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	Total Metals in Groundwater UTL [4]	21311061110			21311070902			21311061101			21311070901		
Date Sampled:						11/5/2013			11/6/2013			11/4/2013			11/5/2013		
Analyte						Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (8260B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**		
1,2-Dichlorobenzene	NV	600	NV	NV	NV	0.135	U		0.135	U		0.135	U		0.138	U	
1,2-Dichloroethane	10	5	NV	NV	NV	**22**			0.116	U		0.116	U		0.116	U	
1,2-Dichloropropane	NV	5	NV	NV	NV	0.15	U		0.15	U		0.15	U		0.15	U	
Acetone	NV	NV	NV	NV	NV	0.193	U		0.193	U		0.193	U		0.193	U	
Benzene	10	5	NV	NV	NV	0.111	U		0.111	U		0.111	U		1.28	J	
Ethylbenzene	750	700	NV	NV	NV	0.109	U		0.109	U		0.109	U		0.109	U	
Isopropylbenzene (Cumene)	NV	NV	NV	NV	NV	0.13	U		0.13	U		0.13	U		0.13	U	
n-Propylbenzene	NV	NV	NV	NV	NV	0.727	U		0.727	U		0.727	U		0.727	U	
sec-Butylbenzene	NV	NV	NV	NV	NV	0.107	U		0.107	U		0.107	U		1.75	J	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.087	U		0.087	U		0.087	U		0.087	U	
Dissolved TAL Metals Analysis (6010C)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	6	6	10	NV	0.15	U		0.015	U		0.15	U		0.23	J	
Arsenic	100	10	10	28.53	NV	0.050	U		**0.013**	J		0.050	U		0.050	U	
Barium	1,000	2,000	30.2	30.13	NV	0.025	U		0.011			0.025	U		0.025	U	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	488			533			435			499		
Chromium	50	100	3	2.50	NV	0.025	U		0.027			0.025	U		0.025	U	
Cobalt	50	NV	2.6	2.60	NV	0.025	U		0.0025	U		0.025	U		0.025	U	
Copper	1,000	1,300	22	57.46	NV	0.21			0.021			0.18	J		0.05	U	
Iron	1,000	300 [6]	65.6	65.56	NV	0.5	U		0.05	U		0.50	U		0.5	U	
Lead	50	15	9	9.00	NV	0.038	U		0.0038	U		0.038	U		0.038	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	528			194			598			237		
Manganese	200	50 [6]	50	118.65	NV	**0.28**			0.0038	U		**0.15**			**0.92**		
Potassium	NV	NV	120,480	120,479.98	NV	16.4			22.6			32.5			6.68		
Silver	50	100 [6]	10	10.00	NV	0.025	U		0.0025	U		0.025	U		0.047	J	
Sodium	NV	NV	19,972,499	19,972,499.00	NV	2580			65.2			3320			962		
Thallium	NV	2	2	15.00	NV	0.05	U		0.0083	J		0.05	U		0.05	U	
Vanadium	NV	NV	73.8	73.73	NV	0.53			0.075			0.49			0.094	J	
Zinc	10,000	5,000	23.0	56.28	NV	0.05	U		0.005	U		0.05	U		0.05	U	
Mercury	2	2	0.5	NV	0.44	0.000070	U		0.000070	U		0.000070	U		0.000070	U	
Total TAL Metals Analysis (7470A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Mercury	2	2	0.5	NV	0.44	0.000070	U		0.000070	U		0.000070	U		0.000070	U	
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 300.0)	10	10	NV	NV	NV	5.62			**16.8**			**43.2**		J	**23.0**		J
Solids, Total Dissolved (SM 2540 C)	1,000	500 [6]	NV	NV	65,956.58	**11000**			**3260**			**15400**			**3740**		

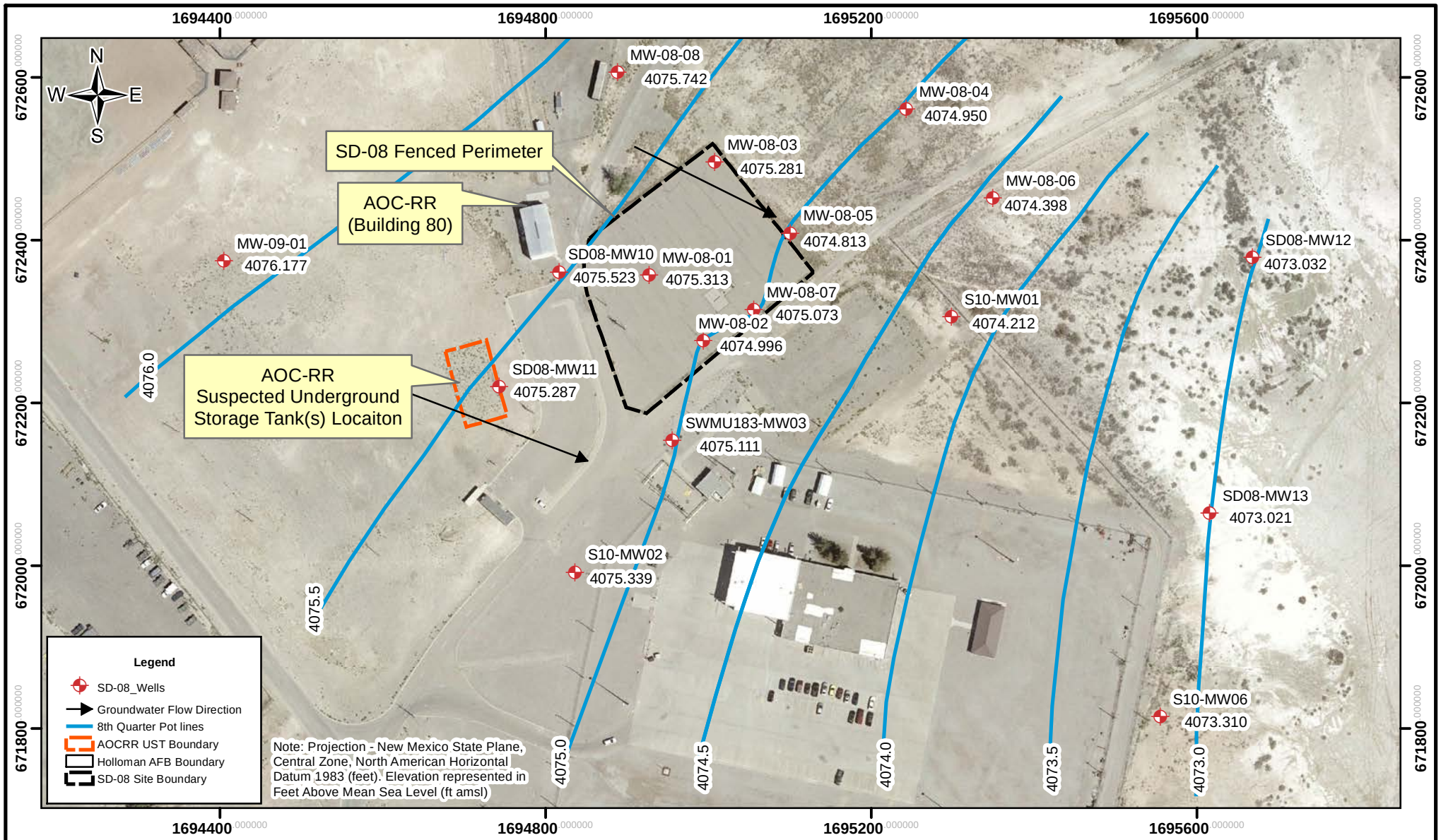
Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environmental Department
UTL = Upper Tolerance Limit
TAL = Total Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value

Sample Identification Nomenclature
MW = Monitoring Well Sample
08 = Site identifier for SD-08
A = Sample suffix denoting a duplicate sample

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates analytical results above the NMED Approved Background Level, but below the New Mexico Groundwater Quality Standard and USEPA MCL



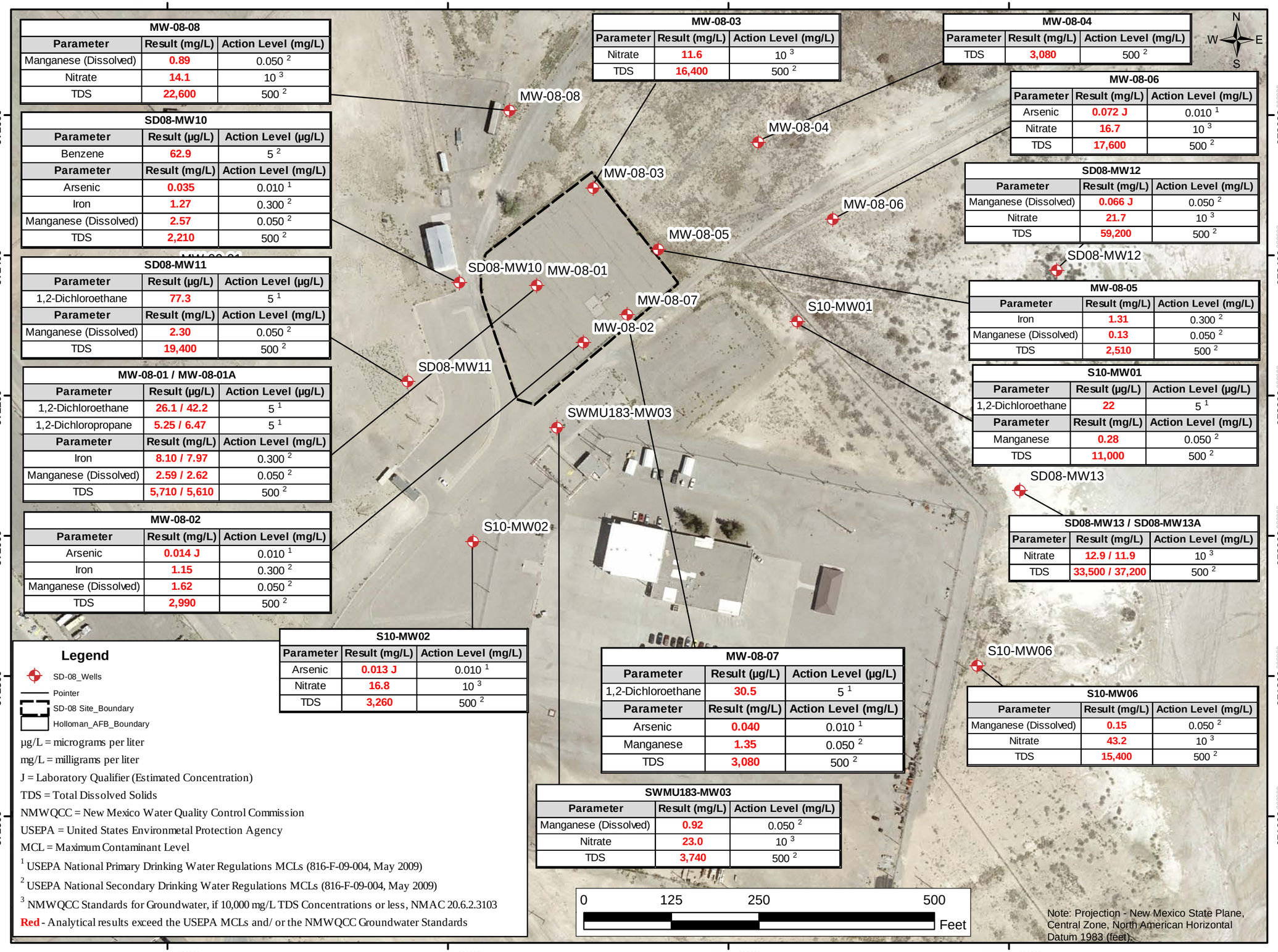
NATIONVIEW

Site SD-08
Groundwater Potentiometric Map
(November 2013)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
10-0004	0 125 250 Feet	2/20/14	FRE
			DRAWING NO: Figure 4-2

SD-08
Long Term Monitoring Report
Quarter 8, Fall 2013
Holloman Air Force Base, New Mexico

Figure 4-2



MW-08-08		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (Dissolved)	0.89	0.050 [2]
Nitrate	14.1	10 [3]
TDS	22,600	500 [2]

SD08-MW10		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
Benzene	62.9	5 [2]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Arsenic	0.035	0.010 [1]
Iron	1.27	0.300 [2]
Manganese (Dissolved)	2.57	0.050 [2]
TDS	2,210	500 [2]

SD08-MW11		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	77.3	5 [1]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (Dissolved)	2.30	0.050 [2]
TDS	19,400	500 [2]

MW-08-01 / MW-08-01A		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	26.1 / 42.2	5 [1]
1,2-Dichloropropane	5.25 / 6.47	5 [1]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Iron	8.10 / 7.97	0.300 [2]
Manganese (Dissolved)	2.59 / 2.62	0.050 [2]
TDS	5,710 / 5,610	500 [2]

MW-08-02		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Arsenic	0.014 J	0.010 [1]
Iron	1.15	0.300 [2]
Manganese (Dissolved)	1.62	0.050 [2]
TDS	2,990	500 [2]

MW-08-03		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Nitrate	11.6	10 [3]
TDS	16,400	500 [2]

MW-08-04		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	3,080	500 [2]

MW-08-06		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Arsenic	0.072 J	0.010 [1]
Nitrate	16.7	10 [3]
TDS	17,600	500 [2]

SD08-MW12		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (Dissolved)	0.066 J	0.050 [2]
Nitrate	21.7	10 [3]
TDS	59,200	500 [2]

MW-08-05		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Iron	1.31	0.300 [2]
Manganese (Dissolved)	0.13	0.050 [2]
TDS	2,510	500 [2]

S10-MW01		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	22	5 [1]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese	0.28	0.050 [2]
TDS	11,000	500 [2]

SD08-MW13 / SD08-MW13A		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Nitrate	12.9 / 11.9	10 [3]
TDS	33,500 / 37,200	500 [2]

S10-MW02		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Arsenic	0.013 J	0.010 [1]
Nitrate	16.8	10 [3]
TDS	3,260	500 [2]

MW-08-07		
Parameter	**Result (µg/L)**	**Action Level (µg/L)**
1,2-Dichloroethane	30.5	5 [1]
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Arsenic	0.040	0.010 [1]
Manganese	1.35	0.050 [2]
TDS	3,080	500 [2]

S10-MW06		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (Dissolved)	0.15	0.050 [2]
Nitrate	43.2	10 [3]
TDS	15,400	500 [2]

SWMU183-MW03		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (Dissolved)	0.92	0.050 [2]
Nitrate	23.0	10 [3]
TDS	3,740	500 [2]

Legend

- SD-08_Wells
- Pointer
- SD-08 Site_Boundary
- Holloman_AFB_Boundary

µg/L = micrograms per liter
mg/L = milligrams per liter
J = Laboratory Qualifier (Estimated Concentration)
TDS = Total Dissolved Solids
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
[1] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[2] USEPA National Secondary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] NMWQCC Standards for Groundwater, if 10,000 mg/L TDS Concentrations or less, NMAC 20.6.2.3103
Red - Analytical results exceed the USEPA MCLs and/ or the NMWQCC Groundwater Standards

Note: Projection - New Mexico State Plane, Central Zone, North American Horizontal Datum 1983 (feet).

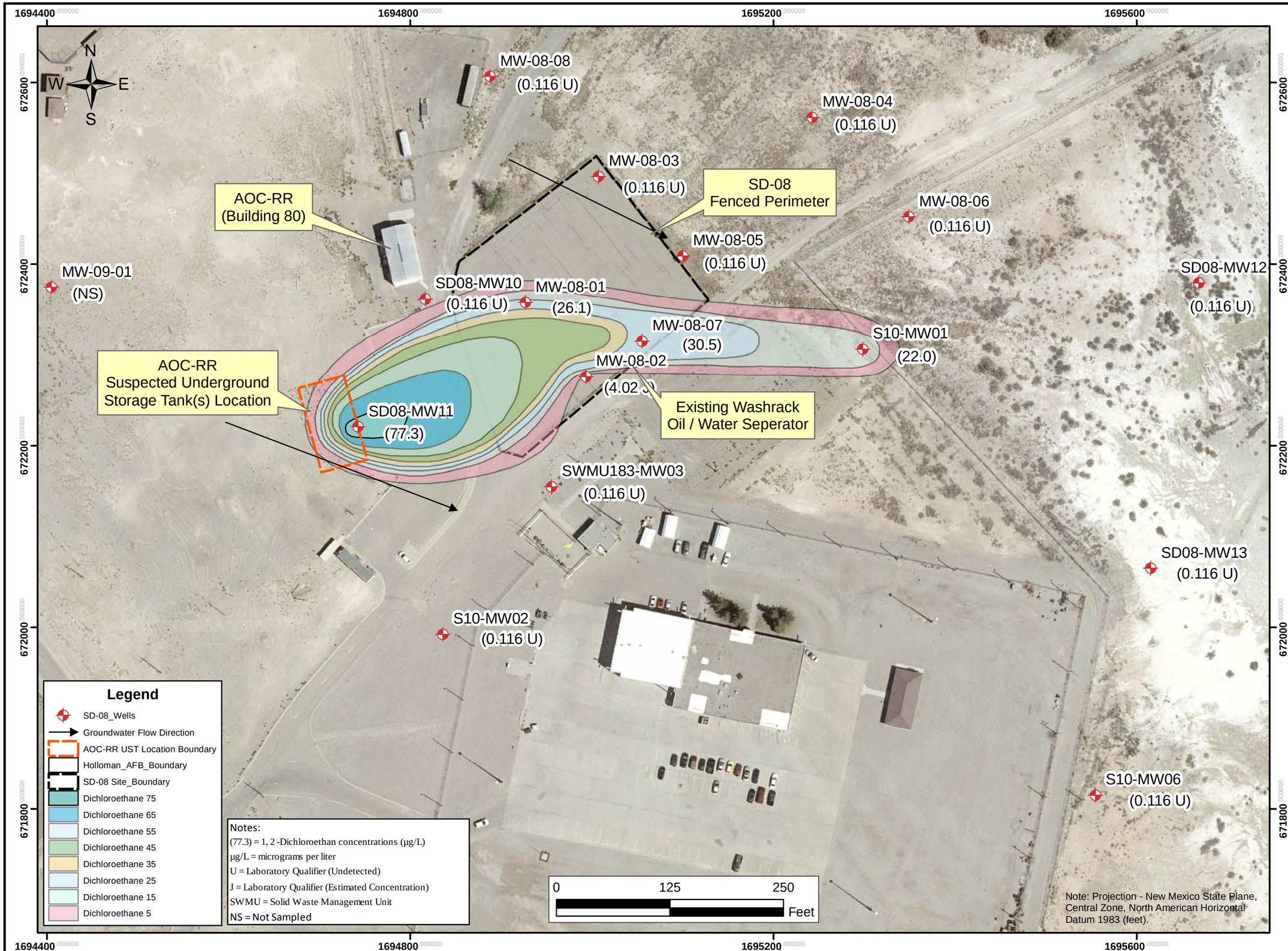
SD-08
Long Term Monitoring Report
Quarter 8, Fall 2013
Holloman Air Force Base, New Mexico

Figure 5-1

SD-08
Groundwater Analytical Results
Above Action Levels (November 2013)

DRAWN BY:	FRE
DRAWING NO.:	Figure 5-1
DATE:	2/20/14
SCALE:	1" = 250'
PROJECT NO:	10-0004

NATIONVIEW



SD-08
Long Term Monitoring Report
Quarter 8, Fall 2013
Holloman Air Force Base, New Mexico

Figure 5-2

SD-08
Dichloroethane Isocontour Map
Above Action Levels (November 2013)

DRAWN BY:	FRE
DRAWING NO.:	Figure 5-2
DATE:	2/20/14
SCALE:	1" = 125'
PROJECT NO:	10-0004

NATIONVIEW

APPENDIX B

SOIL BORING LOGS AND MONITORING WELL CONSTRUCTION DIAGRAMS (1992 -2013)

(Provided on Enclosed CD)

B-1

Radian, June 1992

DRILLING LOG

HOLE NO. SB-08-01

F2373

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 2 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	08
5. NAME OF DRILLER	ALEX SANCHEZ
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	672303.42(Y), 554783.76(X)
9. SURFACE ELEVATION	4085.81
10. DATE STARTED	7 AUG 91
11. DATE COMPLETED	7 AUG 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	12.3 ft
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	15 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			GROUT	ACD

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1	SILTY SAND: yellowish brown (10YR 5/4), very fine to fine, some gravel, moist, sub-rounded, roots, FILL. (SM)			91JULH008 -001, -001SS		3.0/5.0 ft -core barrel used
	2, 3, 4, 5	SANDY, CLAYEY SILT: brown (5YR 4/4), medium plasticity, low toughness, moist, some white gypsum spotting, homogeneous. (ML)	DH=2.0ppm BZ=0.0ppm				
	6, 7, 8	SILTY SAND: orange (10YR 8/2) to orange pink (5YR 8/4), caliche, interbedded sandy silt, firm, crumbly, moist, fine to very fine, poorly graded, very hard caliche layers. (SM)			91JULH008 -002, -002SS		5.0/5.0 ft
	9	SANDY SILT: light brown (5YR 6/4), mottled with tan zones, moist, crumbly, non-plastic. (ML)	HS=0.0ppm				

DRILLING LOG

HOLE NO. SB-08-01

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

SHEET 2 OF 2 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	11	SILTY SAND: brown (5YR 6/4), interbedded caliche zones, fine to very fine, some mottling, similar to 6-9', subrounded. (SM)					4.0/5.0 ft
	12						water at 12.3 ft (foamy)
	13						
	14	SILTY SAND: light blueish-grey (5B 7/1), moist to wet, crumbly, poorly graded, very fine. (SM)	HS=0.0ppm				brown tint at 14' (petroleum?) clean at 15'
	15						TD= 15 ft
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						
	26						
	27						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. SB-08-01

DRILLING LOG

HOLE NO. SB-08-02

F2374

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 2 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	08
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	672281.88(Y), 554785.86(X)
9. SURFACE ELEVATION	4086.26
10. DATE STARTED	7 SEP 91
11. DATE COMPLETED	7 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	12 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	15 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			GROUT	ACD

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1	SILTY SAND: brown (10YR 5/4), moist, organic, roots, small black stained zone, low plasticity, crumbly. (SM-SC)	BZ=1ppm		91JULH008 -003, -003SS		2.5/5.0 ft
	2, 3, 4, 5, 6	SANDY SILT: brown (5YR 3/4), moist, roots medium plasticity, low toughness, firm, white (gypsum?) spotting (ML) Same as 1.5-6 ft in SB008-001.	DH=3ppm; BZ=1ppm DH=3.3ppm		91JULH008 -004, -004SS		5.0/5.0 ft
	7, 8, 9	SILTY SAND: brown (10YR 5/4), fine to very fine (maybe a sandy silt ?), mottled with both darker and lighter areas, moist, crumbly, similar to 6-9 ft in SB-008-001 but no caliche, gypsum crystal layers. present (SM)	HS=1.0ppm				5.0/5.0 ft

DRILLING LOG

HOLE NO. SB-08-02

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

SHEET 2 OF 2 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		grades to brown (6YR 5/6). gypsum crystal layers.					
	11	caliche present at 11 ft.					
	12						water at 12 ft
	13		HS=0.0ppm				
		SAND: very pale brown (10YR 7/4), moist to wet, fine to very fine, some medium, clean. (SP)	DH=1.8ppm				
	14						
	15						TD= 15.0 ft
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						
	26						
	27						

DRILLING LOG

HOLE NO. SB-08-03

F2375

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 2 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	08
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	672307.50(Y), 554729.28(X)
9. SURFACE ELEVATION	4086.32
10. DATE STARTED	7 AUG 91
11. DATE COMPLETED	7 AUG 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	12.7 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	14 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			GROUT	ACD

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1	SANDY SILT: brown, low plasticity, moist, soft, crumbly. (ML)			91JULH008 -005, -005SS		3.5/4.0 ft
	2	SANDY SILT: yellow orange (10YR 8/6), moist, crumbly. (ML)					
	3						
	4	SILTY SAND: as above, subrounded. (SM)	DH=2.7ppm BZ=1.8ppm				5.0/5.0 ft
	5	changes to (10YR 5/4).					
	6						
	7	Laminated, no caliche					
	8						
	9	changes to yellowish-brown (5YR 6/4)					

DRILLING LOG

HOLE NO. SB-08-03

F2375

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

SHEET 2 OF 2 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	11	Caliche at 10', some large layers			91JULH008 -006, -006SS		5.0/5.0 ft
	12	SAND: yellowish brown (10YR 5/4), wet, fine to medium, some caliche. (SP)	HS=0.0ppm				
	13						water at 12.7 ft chemical odor
	14						TD= 14 ft
	15						
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						
	26						
	27						

DRILLING LOG

HOLE NO. SB-08-04

F2532

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET	1 OF 1 SHEETS
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	08
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	672261.97(Y), 554732.56(X)
9. SURFACE ELEVATION	4086.02
10. DATE STARTED	8 AUG 91
11. DATE COMPLETED	8 AUG 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	8 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			GROUT	TAC

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		FILL: composed of SANDY SILT: greyish-black (N2), organic chemical staining, grading below 0.3 ft.	HS=0.0ppm		91JULH008-007	6,3,6,8	2.0/2.0 ft
	1	SILTY SAND: moderate brown (5YR 4/4), soft, dry, fine to very fine. (SM)					
	2	SILT: yellowish-grey (5YR 7/2), gypsum, low plasticity, moist, crumbly, soft. (ML)	HS=0.0ppm		91JULH008-008 -008SS	8,5,5,5	2.0/2.0 ft
	3						
	4	SILTY SAND: light brown (5YR 5/6), soft, moist. (SM)					
	5	SANDY SILT: light brown (5YR 6/4), soft, moist to wet, fine to very fine, non-plastic. (ML)	HS=0.0ppm			3,3,3,7	1.8/2.0 ft split spoon wet when removed from hole
	6						
	7						
	8						TD= 8 ft
	9						

DRILLING LOG

HOLE NO. SB-08-05

F2427

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 2 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	08
5. NAME OF DRILLER	ALEX SANCHEZ
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	672298.5 (Y), 554672.4 (X)
9. SURFACE ELEVATION	4085.88
10. DATE STARTED	9 AUG 91
11. DATE COMPLETED	9 AUG 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	10.5 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	13 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			GROUT	LEM

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		FILL: angular gravel	HS=0.0ppm			28,42,14,8	1.6/2.0 ft
	1	SILTY SAND: moderate brown (5YR 4/4). (SM)					
	2	SILTY SAND: greyish-orange 10YR 7/4). (SM)	HS=0.0ppm		91JULH008-009		2.0/2.0 ft
	3	SILTY SAND, as above: very pale orange (10YR 8/2). (SM)					
	4	SILTY SAND, as above: moist. (SM)				5,28,31,43	1.5/2.0 ft
	5						
	6	SILTY SAND, as above. (SM)			91JULH008-010		2.0/2.0 ft
	7	SILTY SAND, as above: light brown (5YR 6/4). (SM)					
	8	SILTY SAND, as above: very pale orange (10YR 8/2). (SM)				18,18,10,19	
	9	SILTY SAND, as above: moderate yellowish-brown (10YR 5/4), grading to moderate brown (5YR 4/4), caliche, moist. (SM)					

DRILLING LOG

HOLE NO. SB-08-05

F2427

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR LEM

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		SILTY SAND, as above: saturated. (SM)					
			C= 62.5ppm				
	11						
	12	SILTY SAND, as above. (SM)					1.0/2.0 ft chemical odor
	13						TD=13.0 ft
	14						
	15						
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						
	26						
	27						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. SB-08-05

DRILLING LOG

HOLE NO. SB-08-06

F2428

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 2 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	08
5. NAME OF DRILLER	ALEX SANCHEZ
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	672273.8 (Y),554737.3 (X)
9. SURFACE ELEVATION	4086.24
10. DATE STARTED	9 AUG 91
11. DATE COMPLETED	9 AUG 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	13.8 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	15 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
		X	

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			GROUT	LEM

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1	FILL: angular gravel	HS=0.0ppm			5,9,10,7	1.5/2.0 ft
	2	SILTY SAND: moderate yellowish-brown (10YR 6/4). (SM)					
	3	SANDY SILT: light brown (5YR 6/4). (ML)	HS=0.9ppm DH=32.0ppm		91JULH008 -011	4,5,3,5	
	4						
	5	SILTY SAND: greyish-orange (10YR 7/4). with some darker and lighter mottling. (SM)	HS=0.3ppm DH=27ppm BZ=27ppm			7,10,13,17	
	6						
	7						
	8	SILTY SAND, very silty: light brown (5YR 5/6), caliche nodules increasing with depth. (SM)	HS=0.5ppm		91JULH008 -012	7,14,35,31	
	9						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. SB-08-06

DRILLING LOG

HOLE NO. SB-08-06

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR LEM

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		SILTY SAND: moderate yellowish-brown (10YR 5/4). (SM)	HS=0.2ppm				
	11	SILTY SAND, as above: greyish-orange (10YR 7/4). (SM)					
	12						
	13			SB-008-006			geotechnical sample 12.5 to 15.0 ft
	14	saturated					
	15						TD= 15.0 ft
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						
	26						
	27						

F2428

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. SB-08-06

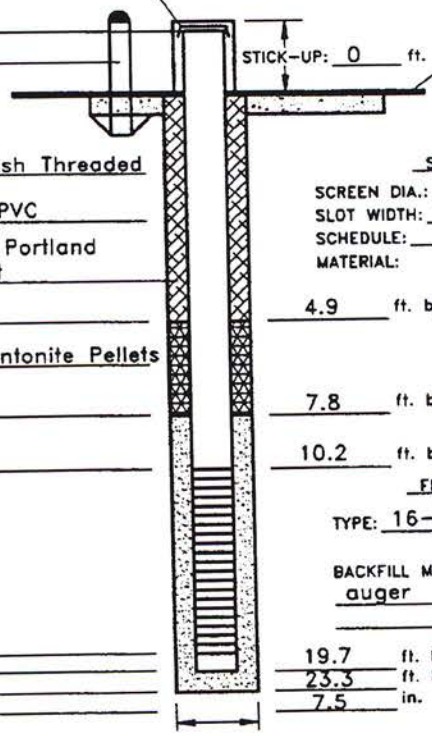
ELEVATION GROUND WATER			PROJECT HOLLOMAN AFB RI/FS
DATE INSTALLED 07 AUG 91	STARTED 1400	COMPLETED 1800	LOCATION (Coordinates or Station) 08
ELEVATION TOP OF CASING 4085.87			SIGNATURE OF INSPECTOR/INSTALLER LEM
DRILLING METHOD HOLLOW STEM AUGER			WELL NO. (as shown on drawing: title and file number) MW-08-01

MONITORING WELL CONSTRUCTION DIAGRAM

(ALL MEASUREMENTS FROM GROUND SURFACE)

PROTECTIVE CASING

TYPE OF PROTECTIVE CASING: Steel Manhole with Locking Well Cover



TOP OF WELL

PROTECTIVE POSTS

STICK-UP: 0 ft.

GROUND SURFACE

CONCRETE PAD MIN. 4.0" THICKNESS

CASING DIAMETER: 2 in.

TYPE OF PIPE JOINTS: Flush Threaded

TYPE OF BLANK CASING: PVC

BACKFILL/GROUT MIX ETC. Type I Portland Cement

TOP OF SEAL 4.9 ft. bgl

TYPE OF SEAL: 1/4" Bentonite Pellets

TOP OF FILTERPACK 7.8 ft. bgl

TOP OF SCREEN 10.2 ft. bgl

FILTER PACK

BOTTOM OF WELL 19.7 ft. bgl

BOTTOM OF BORING 23.3 ft. bgl

BORING DIAMETER 7.5 in.

LENGTH OF SOLID PIPE: 10.0 ft.

WELL SCREEN LENGTH: 9.5 ft.

SCREEN INFORMATION

SCREEN DIA.: 2 in.

SLOT WIDTH: 0.010 in.

SCHEDULE: 40

MATERIAL: ☒ PVC ☐ STAINLESS STEEL ☐ OTHER (DESCRIBE)

FILTERPACK MATERIAL

TYPE: 16-40 Colorado Silica Sand

BACKFILL METHOD: Tremie through auger

WELL DEVELOPMENT

METHOD: See well development record

TIME SPENT DEVELOPING:

VOLUME OF WATER REMOVED:

VOLUME OF WATER ADDED:

DESCRIPTION OF PREDEVELOPMENT WATER:

DESCRIPTION OF POST DEVELOPMENT WATER:

WATER LEVEL SUMMARY

WATER LEVEL MEASUREMENTS

DATE/TIME/LEVEL 08 AUG 91/0930/8.8 ft bmp

4 NOV 91/ /8.96 ft. bmp

DEPTH FROM TOP CASING AFTER DEVELOPMENT:

F2329

ELEVATION GROUND WATER			PROJECT HOLLOMAN AFB RI/FS
DATE INSTALLED 08 AUG 91	STARTED 0800	COMPLETED 1200	LOCATION (Coordinates or Station) 08
ELEVATION TOP OF CASING 4088.16			SIGNATURE OF INSPECTOR/INSTALLER LEM
DRILLING METHOD HOLLOW STEM AUGER			WELL NO. (as shown on drawing: title and file number) MW-08-02

MONITORING WELL CONSTRUCTION DIAGRAM

(ALL MEASUREMENTS FROM GROUND SURFACE)

PROTECTIVE CASING

TYPE OF PROTECTIVE CASING: Steel Lockbox

TOP OF WELL

PROTECTIVE POSTS

CASING DIAMETER: 2 in.

TYPE OF PIPE JOINTS: Flush Threaded

TYPE OF BLANK CASING: PVC

BACKFILL/GROUT MIX ETC. Type I Portland Cement

TOP OF SEAL

TYPE OF SEAL: 1/4" Bentonite Pellets

TOP OF FILTERPACK

TOP OF SCREEN

FILTER PACK

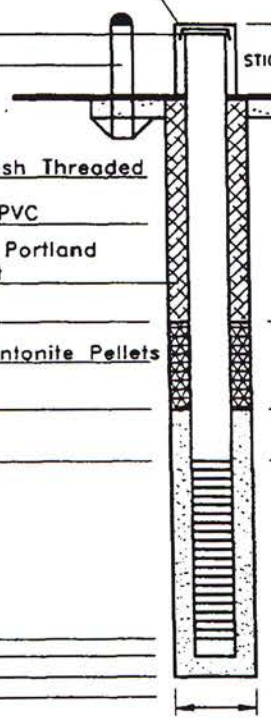
BOTTOM OF WELL

BOTTOM OF BORING

BORING DIAMETER

LENGTH OF SOLID PIPE: 9.0 ft.

WELL SCREEN LENGTH: 9.5 ft.



STICK-UP: 2.3 ft.

GROUND SURFACE

CONCRETE PAD MIN. 4.0" THICKNESS

SCREEN INFORMATION

SCREEN DIA.: 2 in.

SLOT WIDTH: 0.010 in.

SCHEDULE: 40

MATERIAL: ☒ PVC ☐ STAINLESS STEEL ☐ OTHER (DESCRIBE)

TOP OF SEAL: 1.6 ft. bgl

TOP OF FILTERPACK: 4.6 ft. bgl

TOP OF SCREEN: 6.7 ft. bgl

FILTERPACK MATERIAL

TYPE: 16-40 Colorado Silica Sand

BACKFILL METHOD: Tremie through auger

BOTTOM OF WELL: 16.7 ft. bgl

BOTTOM OF BORING: 18.9 ft. bgl

BORING DIAMETER: 7.5 in.

WELL DEVELOPMENT

METHOD: See well development record

TIME SPENT DEVELOPING:

VOLUME OF WATER REMOVED:

VOLUME OF WATER ADDED:

DESCRIPTION OF PREDEVELOPMENT WATER:

DESCRIPTION OF POST DEVELOPMENT WATER:

WATER LEVEL SUMMARY

WATER LEVEL MEASUREMENTS

DATE/TIME/LEVEL 11 AUG 91/0700/8.75 bmp

4 NOV 91/ /11.26 bmp

DEPTH FROM TOP CASING AFTER DEVELOPMENT:

F2330

B-2

Foster Wheeler/Radian, June 1995

DRILLING LOG

HOLE NO.	MW-08-04
SHEET 1 OF 2 SHEETS	
1. COMPANY NAME	Radian Corporation
2. DRILLING SUBCONTRACTOR	Geo-Test, Inc.
3. PROJECT	Holloman AFB Table I Phase II RFI
4. LOCATION	SWMU 82 / IRP Site 08
5. NAME OF DRILLER	John Maldonado
6. MANUFACTURERS DESIGNATION OF DRILL	CME - 55 ATV
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	5' x 2.6" ID Carbon Steel Continuous Sampler; 7.25" OD Hollow Stem Auger
8. HOLE LOCATION	
9. SURFACE ELEVATION	
10. DATE STARTED	11-7-94
11. DATE COMPLETED	11-7-94
12. OVERBURDEN THICKNESS	NA
15. DEPTH GROUNDWATER ENCOUNTERED	9.5 ft
13. DEPTH DRILLED INTO ROCK	NA
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	8.64 ft / 48 hrs
14. TOTAL DEPTH OF HOLE	17.5 ft
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	None
18. RISK ASSESSMENT SAMPLES	No
SAMPLE ID (S)	
DEPTH	
19. TOTAL NUMBER OF CORE BOXES	NA
20. NUMBER OF SAMPLES FOR CHEMICAL ANALYSIS	0
SW8020 / SW8080 / SW8240 / SW8270 / SW8015ME	
SW8015MP / Metals / EPA 418.1 / SOP-426 / SOP-427	
21. TOTAL CORE REC.	NA
22. DISPOSITION OF HOLE	Vertical
BACKFILL	
MONITORING WELL	Yes
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	Tim Byers

ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	SPLIT SPOON (ppm) e	HEAD-SPACE (ppm) f	BLOW CNTS g	% REC-OVERY h	ANALYTICAL SAMPLE NO. i
			SAND; Silty, poorly graded, fine-grained, very pale brown (10YR7/4), wet, loose, non-plastic, (SM) (SDFN).					
	2							
	4		SAND; Clayey, poorly graded, fine-grained, dark red (2.5YR4/6), moist, medium density, low plasticity, with gypsum crystals, (SC) (SDCL). Auger was advanced 5.0 ft., then continuous sampler was installed.					
	6			0			100	
	8		SAND; Silty, poorly graded, fine-grained, very pale brown (10YR7/3), wet, medium density, non-plastic, water encountered at 9 ft, (SM) (SDFN).					

0 2 4 6 8 10

PROJECT: Holloman AFB Table I Phase II RFI

HOLE NO.: MW-08-04

DRILLING LOG

HOLE NO. MW-08-04

1. COMPANY NAME: Radian Corporation

2. INSPECTOR: Tim Byers

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	SPLIT SPOON (ppm) e	HEAD-SPACE (ppm) f	BLOW CNTS g	% REC-OVERY h	ANALYTICAL SAMPLE NO. i
			SAND; Silty, poorly graded, fine-grained, very pale brown (10YR7/3), wet, medium density, non-plastic, with gypsum crystals, (SM) (SDFN).	0			100	
			Total Depth = 17.5 ft.					

PROJECT: Holloman AFB Table I Phase II RFI

HOLE NO.: MW-08-04

DRILLING LOG

HOLE NO.	MW-08-05
1. COMPANY NAME	Radian Corporation
2. DRILLING SUBCONTRACTOR	Geo-Test, Inc.
SHEET 1	OF 2 SHEETS
3. PROJECT	Holloman AFB Table I Phase II RFI
4. LOCATION	SWMU 82 / IRP Site 08
5. NAME OF DRILLER	Victor Maldonado
6. MANUFACTURERS DESIGNATION OF DRILL	CME - 55
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	5' x 2.6" ID Carbon Steel Continuous Sampler; 7.25" OD Hollow Stem Auger
8. HOLE LOCATION	
9. SURFACE ELEVATION	
10. DATE STARTED	11-8-94
11. DATE COMPLETED	11-8-94
12. OVERBURDEN THICKNESS	NA
15. DEPTH GROUNDWATER ENCOUNTERED	10.0 ft
13. DEPTH DRILLED INTO ROCK	NA
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	8.88 ft / 24 hrs
14. TOTAL DEPTH OF HOLE	17.6 ft
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	None
18. RISK ASSESSMENT SAMPLES	No
SAMPLE ID (S)	
DEPTH	
19. TOTAL NUMBER OF CORE BOXES	NA
20. NUMBER OF SAMPLES FOR CHEMICAL ANALYSIS	0
SW8020 / SW8080 / SW8240 / SW8270 / SW8015ME	
SW8015MP / Metals / EPA 418.1 / SOP-426 / SOP-427	
21. TOTAL CORE REC.	NA
22. DISPOSITION OF HOLE	Vertical
BACKFILL	
MONITORING WELL	Yes
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	Carolyn Cooper

ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	SPLIT SPOON (ppm) e	HEAD-SPACE (ppm) f	BLOW CNTS g	% REC-OVERY h	ANALYTICAL SAMPLE NO. i
			SAND; Silty, poorly graded, very fine-grained, reddish yellow (7.5YR6/6), moist, firm, (SM) (SDSL).	0			100	
			Very pale brown (10YR8/3), dry, very hard, caliche layer; cemented .					
	2		SAND; Poorly Graded, very fine-grained, reddish yellow (7.5YR7/6), moist, medium density, (SP) (SDVF).					
	4			0			100	
			SAND; Clayey, poorly graded, very fine-grained, strong brown (7.5YR5/6), moist, hard, with gypsum crystals, (SC) (SDCL).					
	6		Very pale brown (10YR8/3), moist, very loose, caliche layer, cemented.					
	8		SAND; Poorly Graded, very fine-grained, very pale brown (10YR7/4), moist to wet, medium density, (SP) (SDVF).				100	

0 2 4 6 8 10

PROJECT: Holloman AFB Table I Phase II RFI

HOLE NO.: MW-08-05

DRILLING LOG

HOLE NO. MW-08-05

1. COMPANY NAME: Radian Corporation

2. INSPECTOR: Carolyn Cooper

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	SPLIT SPOON (ppm) e	HEAD-SPACE (ppm) f	BLOW CNTS g	% REC-OVERY h	ANALYTICAL SAMPLE NO. i
			water at 16 ft.					
	12						100	
			SAND; Poorly Graded, very fine-grained, gray (10YR5/1), moist to wet, medium density, with gypsum crystals, (SP) (SDVF).					
			SAND; Poorly Graded, very fine-grained, very pale brown (10YR7/4), moist to wet, medium density, with gypsum crystals, (SP) (SDVF).					
	14		SAND; Poorly Graded, very fine-grained, light brown (7.5YR6/4), wet, dense, cemented, breaks along bedding planes, (SP) (SDVF).				100	
			SAND; Clayey, poorly graded, very fine-grained, yellowish red (5YR5/6), wet, hard, with gypsum crystals, (SC) (SDCL).					
	16		SAND; Poorly Graded, fine-grained, reddish yellow (7.5YR6/6), wet, medium density, (SP) (SDFN).					
			Total Depth = 17.6 ft.					
	18							
	20							
	22							
	24							
	26							
	28							

PROJECT: Holloman AFB Table I Phase II RFI

HOLE NO.: MW-08-05

DRILLING LOG

HOLE NO.	MW-08-06
1. COMPANY NAME	Radian Corporation
2. DRILLING SUBCONTRACTOR	Geo-Test, Inc.
SHEET	1 OF 2 SHEETS
3. PROJECT	Holloman AFB Table I Phase II RFI
4. LOCATION	SWMU 82 / IRP Site 08
5. NAME OF DRILLER	John Maldonado
6. MANUFACTURERS DESIGNATION OF DRILL	CME - 55 ATV
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	5' x 2.6" ID Carbon Steel Continuous Sampler; 7.25" OD Hollow Stem Auger
8. HOLE LOCATION	
9. SURFACE ELEVATION	
10. DATE STARTED	11-8-94
11. DATE COMPLETED	11-8-94
12. OVERBURDEN THICKNESS	NA
15. DEPTH GROUNDWATER ENCOUNTERED	9.0 ft
13. DEPTH DRILLED INTO ROCK	NA
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	8.54 ft / 48 hrs
14. TOTAL DEPTH OF HOLE	17.5 ft
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	None
18. RISK ASSESSMENT SAMPLES	No
SAMPLE ID (S)	
DEPTH	
19. TOTAL NUMBER OF CORE BOXES	NA
20. NUMBER OF SAMPLES FOR CHEMICAL ANALYSIS	0
SW8020	
SW8080	
SW8240	
SW8270	
SW8015ME	
SW8015MP	
Metals	
EPA 418.1	
SOP-426	
SOP-427	
21. TOTAL CORE REC.	NA
22. DISPOSITION OF HOLE	Vertical
BACKFILL	
MONITORING WELL	Yes
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	Tim Byers

ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	SPLIT SPOON (ppm) e	HEAD-SPACE (ppm) f	BLOW CNTS g	% REC-OVERY h	ANALYTICAL SAMPLE NO. i
	0–2		SAND; Silty, poorly graded, fine-grained, very pale brown (10YR7/4), wet, loose, non-plastic, (SM) (SDFN).					
	2–4		SAND; Clayey, poorly graded, fine-grained, yellowish red (5YR5/6), moist, medium density, low plasticity, with trace gypsum, (SC) (SDCL).					
	4–8		Auger was advanced 5.0 ft., then continuous sampler was installed.	0			100	
	8–10		SAND; Silty, poorly graded, fine-grained, very pale brown (10YR7/3), wet, medium density, non-plastic, (SM) (SDFN). water at 9 ft.					

PROJECT: Holloman AFB Table I Phase II RFI

HOLE NO.: MW-08-06

DRILLING LOG

HOLE NO. MW-08-06

1. COMPANY NAME: Radian Corporation

2. INSPECTOR: Tim Byers

SHEET 2 OF 2 SHEETS

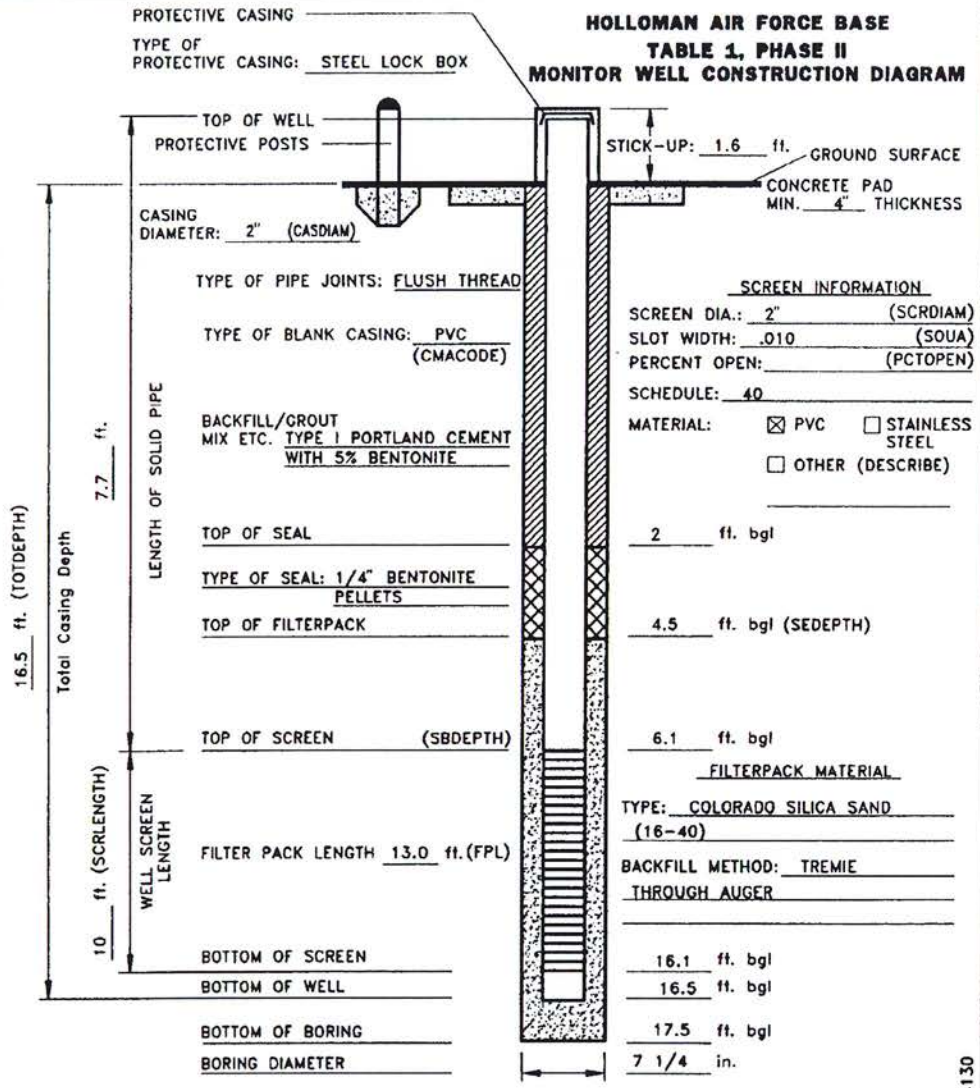
ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	SPLIT SPOON (ppm) e	HEAD-SPACE (ppm) f	BLOW CNTS g	% REC-OVERY h	ANALYTICAL SAMPLE NO. i
	12			0			80	
	14							
	16			0			100	
	18		Total Depth = 17.5 ft.					
	20							
	22							
	24							
	26							
	28							

PROJECT: Holloman AFB Table I Phase II RFI

HOLE NO.: MW-08-06

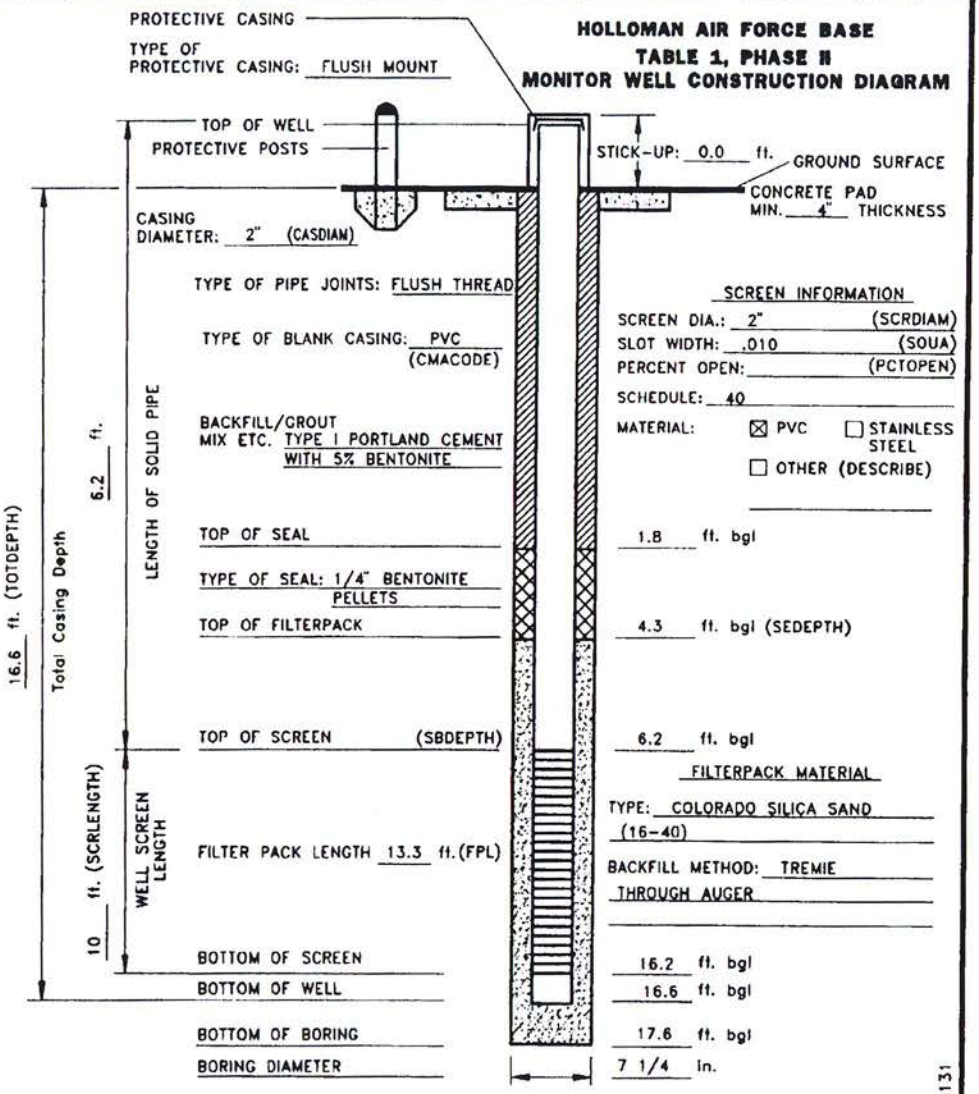
Project (PROJID)	Well I.D. (LOCID)	
HOLMN	MW-08-04	
Well Owner (VVL WELCODE)	Well Type (WL WTCODE)	
USAF	MNW	
Installer	Date Started (INSDATE)	Date Completed
GTI	11/7/94	11/7/94
Location Coordinates: (NCORD) (North) 672478.08	(ECORD) (East) 555017.95	
Elevation Top of Casing (MPELV)	Completion Method (VVL WCMCODE)	
4084.22	GS	
Sole Source Aquifer Code (VVL SAQCODE)		
NA		
Drilling Method	Completion Zone (VVL GZCODE)	
HS	W	
Remarks (REMARKS)		

HOLLOMAN AIR FORCE BASE
TABLE 1, PHASE II
MONITOR WELL CONSTRUCTION DIAGRAM



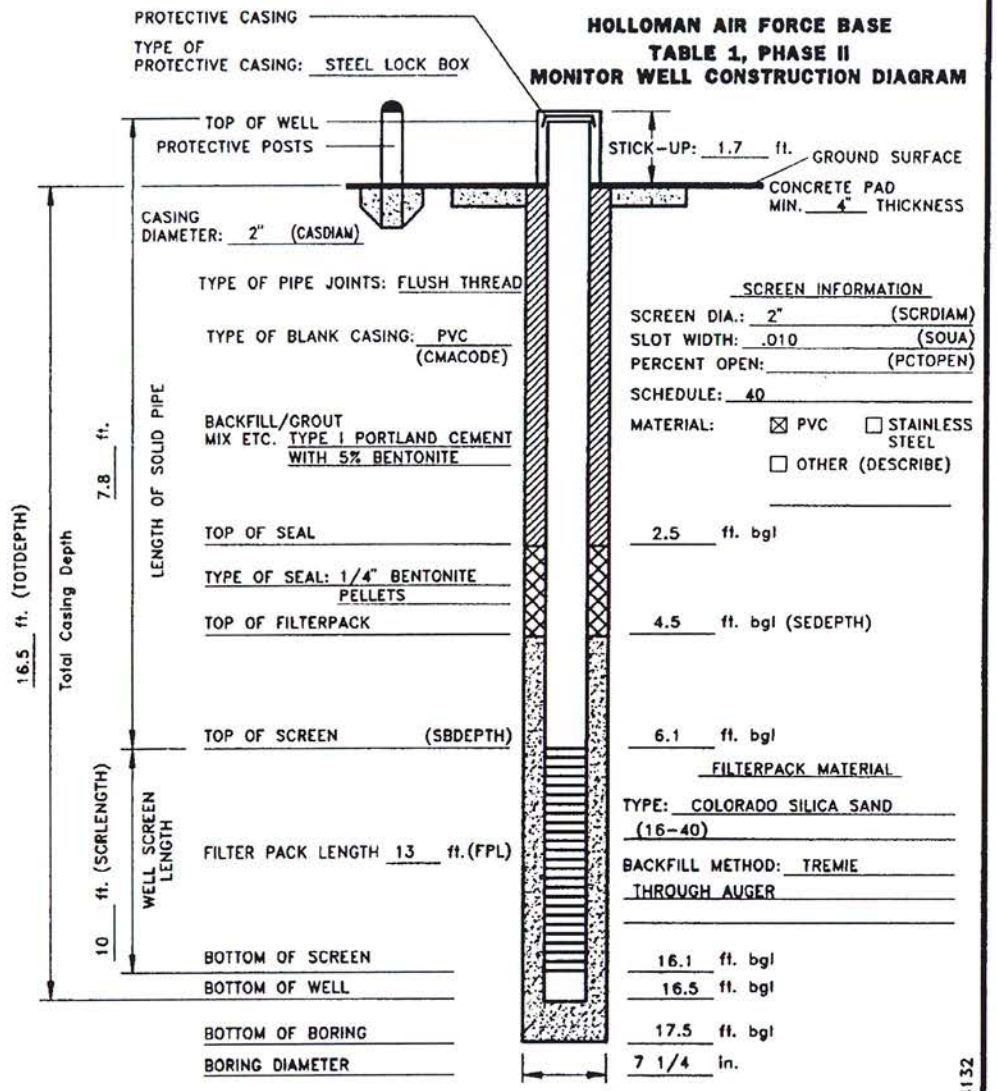
Project (PROJID)	Well I.D. (LOCID)	
HOLMN	MW-08-05	
Well Owner (VVL WELCODE)	Well Type (WL WTCODE)	
USAF	MNW	
Installer	Date Started (INSDATE)	Date Completed
GTI	11/8/94	11/8/94
Location Coordinates: (NCORD) (North) 672353.69	(ECORD) (East) 554853.41	
Elevation Top of Casing (MPELV)	Completion Method (VVL WCMCODE)	
4084.45	GS	
Sole Source Aquifer Code (VVL SAQCODE)		
NA		
Drilling Method	Completion Zone (VVL GZCODE)	
HS	W	
Remarks (REMARKS)		

HOLLOMAN AIR FORCE BASE
TABLE 1, PHASE II
MONITOR WELL CONSTRUCTION DIAGRAM



Project (PROJID)	Well I.D. (LOCID)	
HOLMN	MW-08-06	
Well Owner (VVL WELCODE)	Well Type (WL WTCODE)	
USAF	MNW	
Installer	Date Started (INSDATE)	Date Completed
GTI	11/7/94	11/7/94
Location Coordinates: (NCORD) (North) 672396.65	(ECORD) (East) 555099.61	
Elevation Top of Casing (MPELV)	Completion Method (VVL WCMCODE)	
4084.58	GS	
Sole Source Aquifer Code (VVL SAQCODE)		
NA		
Drilling Method	Completion Zone (VVL GZCODE)	
HS	W	
Remarks (REMARKS)		

HOLLOMAN AIR FORCE BASE
TABLE 1, PHASE II
MONITOR WELL CONSTRUCTION DIAGRAM



B-3

Bhate, October 2006

HTW DRILLING LOG

HOLE NO. SB-08-21

SHEET 1 OF 2 SHEETS

1. COMPANY NAME: Bhate	2. DRILLING CONTRACTOR:
3. PROJECT: SD08 Additional Investigation	4. LOCATION: SD08/SB-08-21
5. NAME OF DRILLER:	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 75
7. SIZES & TYPES OF DRILLING & SAMPLING EQUIPMENT: CME 75, 5 ft core barrel, 6.5-in OD HSAs	8. HOLE LOCATION: North East
	9. SURFACE ELEVATION (ft. NGVD):
	10. DATE STARTED: 10/27/06 — 11. DATE COMPLETED: 10/27/06
12. OVERBURDEN THICKNESS:	15. DEPTH GROUNDWATER ENCOUNTERED: ~7 ft bgs
13. DEPTH DRILLED INTO ROCK:	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:
14. TOTAL DEPTH OF HOLE: 7.5 ft bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOCs	RCRA METALS (8)	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC %
2 + dup	X	X	Pest. X	SVOCs X		

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Backfilled/plugged w/ bentonite pellets, asphalt patch	X			[illegible]

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	Field Screening Results d	Geotech Sample or Core Box No. e	Analytical Sample No. f	Blow Counts g	REMARKS h
	0	0-1 ft bgs asphalt / gravel backfill					
	1	1-5 ft bgs Silty sand (Sm) v.f.gr. qtz, subangular well sorted, loose, vsl. moist 7.5 YR 6/4 lt. brown	FID=0.0 ppm		SD08-SB21-2 SD08-SB21-2-a (dup) (0900)		
	2						
	3						
	4						
	5						

PROJECT: SD08 HOLE NO: SB-08-21

HTW DRILLING LOG

HOLE NO SB-08-21

PROJECT

INSPECTOR J. Moore

SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	Field Screening Results d	Geotech Sample or Core Box No. e	Analytical Sample No. f	Blow Counts g	REMARKS h
	5	5-7 ft bgs silty sand/sand (SM/SP) v. f. gr. qtz, sub angular, well sorted, sl. moist	FID= 0.0ppm		SD08-SB21-6 (6930)		
	6						
	7	- TD 7.5 ft bgs					
	8						

PROJECT SD-08

HOLE NO. SB-08-21

HTW DRILLING LOG

HOLE NO SB-08-22

SHEET 1 OF 2 SHEETS

1. COMPANY NAME Bhate	2. DRILLING CONTRACTOR Rodgers
3. PROJECT SD08 Additional Investigation	4. LOCATION SD08
5. NAME OF DRILLER Brian Hitchcock	6. MANUFACTURER'S DESIGNATION OF DRILL CME 75
7. SIZES & TYPES OF DRILLING & SAMPLING EQUIPMENT: CME 75; 6.5-in HSAs; 5 ft core barrel	8. HOLE LOCATION North East
	9. SURFACE ELEVATION (ft. NGVD)
	10. DATE STARTED 10/27/06 — 11. DATE COMPLETED 10/27/06
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED ~7 ft bgs
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
14. TOTAL DEPTH OF HOLE 9 ft bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOCs	RCRA METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC %
2 ~~[illegible]~~ 5m	X	X	Pest X	SVOCs X		

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
back filled w/ bentonite pellets & asphalt patch			X	JH Moore

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	Field Screening Results d	Geotech Sample or Core Box No. e	Analytical Sample No. f	Blow Counts g	REMARKS h
	0	0-1 ft bgs asphalt cap w/ gravel back fill					
	1	1-5 ft bgs silty sand (sm) v.f. gr. qtz, subangular, well sorted loose, dry 7.5YR 5/6 Strong brown	FID = 0.0 ppm		SD08-SB22-2 (930)		
	2						
	3						
	4						
	5						

PROJECT SD08

HOLE NO SB-08-22

HTW DRILLING LOG

HOLE NO. SB-08-22

PROJECT SD08

INSPECTOR J. Moore

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	Field Screening Results d	Geotech Sample or Core Box No. e	Analytical Sample No. f	Blow Counts g	REMARKS h
	5	5-9 ft bgs silty sand (SM) v.f. gr. qtz, sub-angular, well sorted, loose, moist at the bottom interval (7-9 ft) ~~7.5 YR 5/6 strong brown~~ STET	FID = 0.0 ppm		SD08-SB22-7 plus MS/MSD (1000)		
	6						
	7						
	8						
	9	TD 9.0 ft bgs					

PROJECT SD08

HOLE NO. SB-08-22

HTW DRILLING LOG

(SD08)

HOLE NO. SB-08-23

SHEET 1 OF 2 SHEETS

1. COMPANY NAME: Bhate	2. DRILLING CONTRACTOR: Rodgers
3. PROJECT: SD08 Additional Investigation	4. LOCATION: SD08
5. NAME OF DRILLER: Brian Hitchcock	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 75
7. SIZES & TYPES OF DRILLING & SAMPLING EQUIPMENT: CME 75; 6.75 OD dia HSAs; 5 ft continuous core barrel	8. HOLE LOCATION: North East
	9. SURFACE ELEVATION (ft. NGVD)
	10. DATE STARTED: 10/27/06 — 11. DATE COMPLETED: 10/27/06
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED: ~ 8 ft bgs
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
14. TOTAL DEPTH OF HOLE: 16.5 ft bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS: 2	VOC	RCRA METALS (8)	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC %
	X	X	Pest X	SVOCs X		

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Monitoring well MW-08-07		X		[signature]

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	Field Screening Results d	Geotech Sample or Core Box No. e	Analytical Sample No. f	Blow Counts g	REMARKS h
	0	0-1 ft bgs asphalt w/ gravel backfill					
	1	1-3 ft bgs silty sand (sm) v. f. gr. qtz, subangular, well sorted, loose dry 7.5 YR 5/6 strong Brown	FID = 0.0 ppm				
	2						
	3	3-5 ft bgs. silty sand (sm) qtz subangular, well sorted loose/med dense v. sl. moist 7.5 YR 6/4 lt. brown	FID = 0.0 ppm		SD08-SB23-4 (1045)		
	4						
	5						

PROJECT: SD08 — HOLE NO. SB-08-23

HTW DRILLING LOG

HOLE NO. SB-08-23

PROJECT SD08

INSPECTOR J. Moore

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b 5	DESCRIPTION OF MATERIALS c	Field Screening Results d	Geotech Sample or Core Box No. e	Analytical Sample No. f	Blow Counts g	REMARKS h
	6	5-7 ft bgs silty sand (SM) grading into sand (SP) v. f. gr. qtz, subrounded	FID = 0.0ppm				
	7	7-9 ft bgs sand (SP) v. f gr. qtz subrounded, well sorted, loose					
	8						
	9	Saturated, 7.5YR 7/5 reddish yellow					
	10	9-16.5 no sample below water table					
	11						
	12						
	13						
	14						
	15						
	16						
	17	TD 16.5 ft					

PROJECT SD08 HOLE NO. SB-08-23

HTW DRILLING LOG

HOLE NO: SB-08-24

1. COMPANY NAME: Bhate	2. DRILLING CONTRACTOR: Rodgers
SHEET 1 OF 2 SHEETS	
3. PROJECT: SD08 Additional Investigation	4. LOCATION: SD08
5. NAME OF DRILLER: Brian Hitchcock	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 75
7. SIZES & TYPES OF DRILLING & SAMPLING EQUIPMENT: CME 75; 6.75 OD dia HSAs; 5 ft core barrel	8. HOLE LOCATION: North East
	9. SURFACE ELEVATION (ft. NGVD)
	10. DATE STARTED: 10/27/06
	11. DATE COMPLETED: 10/27/06
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED: ~ 8 ft bgs
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
14. TOTAL DEPTH OF HOLE: 16.5 ft bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
2		X	

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	RCRA METALS (8)	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC %
No soil for chemical analysis	X	X	Pest X	SVOCs X		

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
upgradient monitoring MW-08-08 well		X		JH Moore

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	Field Screening Results d	Geotech Sample or Core Box No. e	Analytical Sample No. f	Blow Counts g	REMARKS h
	0	0-3 ft bgs silty sand (SM) v. f. gr. qtz. subangular, wellsorted well sorted, loose dry 7.5 YR 6/4 lt. brown					
	1						
	2						
	3	3-8 ft bgs silty sand (SM) saturated at the bottom of the interval @ 8 ft bgs			SD08-SB24-3 (1320) Geotech: ~~analys~~ moisture content dry bulk density specific gravity Fractional Organic Carbon		
	4						
	5						

PROJECT: SD08 HOLE NO: SB-08-24

HTW DRILLING LOG

HOLE NO SB-08-24

PROJECT SD08 | INSPECTOR J. Moore | SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b 5	DESCRIPTION OF MATERIALS c	Field Screening Results d	Geotech Sample or Core Box No. e	Analytical Sample No. f	Blow Counts g	REMARKS h
	6						
	7						
	8	8 - 16.5 - No Soil sampling below water table		SD08-SB24-8 Geotechnical analysis: Moisture content Dry Bulk Density Specific Gravity Fractional Organic carbon			
	9						
	10						
	11						
	12						
	13						
	14						
	15						
	16	TD 16.5 ft bgs					
	17						

PROJECT SD08 | HOLE NO. SB-08-24

BHATE
Environmental Engineers and Scientists

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE: SD08
PROJECT NAME: Additional Investigation
PROJECT NO./PHASE: Downgradient well
DRILLING CONTRACTOR: Rodgers
DRILLER: Brian Hitch Cocle
GEOLOGIST: Jim Moore

WELL/BORING ID: MW-08-07 / SB-08-23
DRILLING METHOD: HSA 6 3/4 - in OD
DATE(S): 10/27/06
SURVEYOR:
NORTHING (NAD 83):
EASTING (NAD 83):

NOT TO SCALE

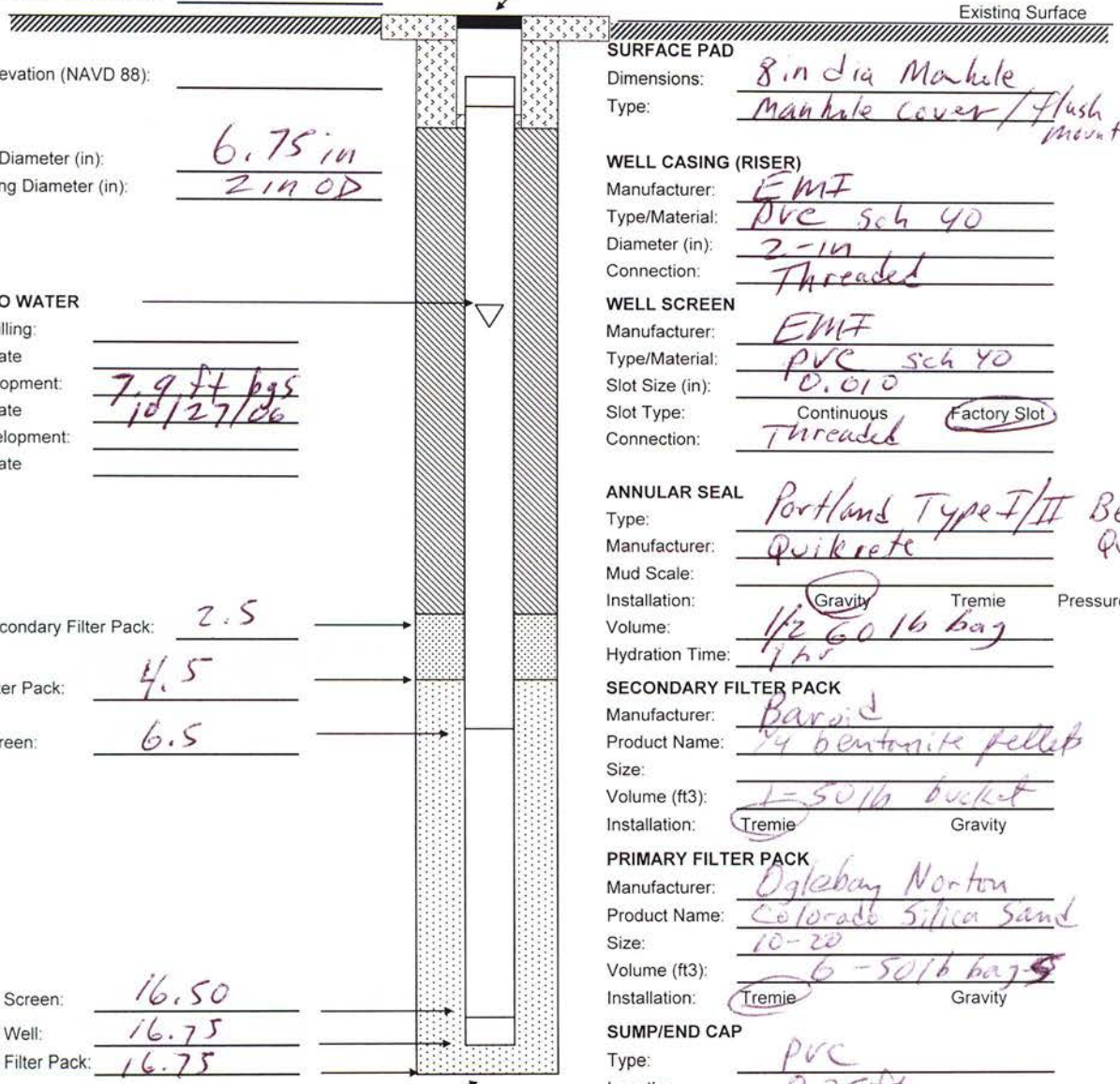
Surface Elevation (NAVD 88):

Casing Elevation (NAVD 88):

Borehole Diameter (in): 6.75 in
Well Casing Diameter (in): 2 in OD

DEPTH TO WATER
During Drilling:
Date
Pre Development: 7.9 ft bgs
Date 10/27/06
Post Development:
Date

Top of Secondary Filter Pack: 2.5
Top of Filter Pack: 4.5
Top of Screen: 6.5
Bottom of Screen: 16.50
Bottom of Well: 16.75
Bottom of Filter Pack: 16.75
Borehole Depth: 16.75



PROTECTIVE CASING
Type: Morrison
Dimensions: 8-in dia
Length: 12 in

SURFACE PAD
Dimensions: 8 in dia Manhole
Type: Manhole cover / Flush mount

WELL CASING (RISER)
Manufacturer: EMF
Type/Material: PVC Sch 40
Diameter (in): 2-in
Connection: Threaded

WELL SCREEN
Manufacturer: EMF
Type/Material: PVC Sch 40
Slot Size (in): 0.010
Slot Type: Continuous (Factory Slot)
Connection: Threaded

ANNULAR SEAL
Type: Portland Type I/II Bentonite
Manufacturer: Quikrete Quick Gel
Mud Scale:
Installation: (Gravity) Tremie Pressure
Volume: 1/2 60 lb bag
Hydration Time: 1 hr

SECONDARY FILTER PACK
Manufacturer: Baroid
Product Name: 3/4 bentonite pellets
Size:
Volume (ft3): 1 - 50 lb bucket
Installation: (Tremie) Gravity

PRIMARY FILTER PACK
Manufacturer: Oglebay Norton
Product Name: Colorado Silica Sand
Size: 10-20
Volume (ft3): 6 - 50 lb bags
Installation: (Tremie) Gravity

SUMP/END CAP
Type: PVC
Length: 0.25 ft

BACKFILL MATERIAL
Type: NA
Volume:

Comments:

BHATE
Environmental Engineers and Scientists

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE: SD08
PROJECT NAME: Additional Investigation
PROJECT NO./PHASE:
DRILLING CONTRACTOR: Rodgers
DRILLER: Brian Hitchcock
GEOLOGIST: Jim Moore

WELL/BORING ID: MW-08-08/SB-08-24
DRILLING METHOD: HSA 6 3/4-in OD
DATE(S): 10/27/06
SURVEYOR: Upgradient well
NORTHING (NAD 83):
EASTING (NAD 83):

NOT TO SCALE

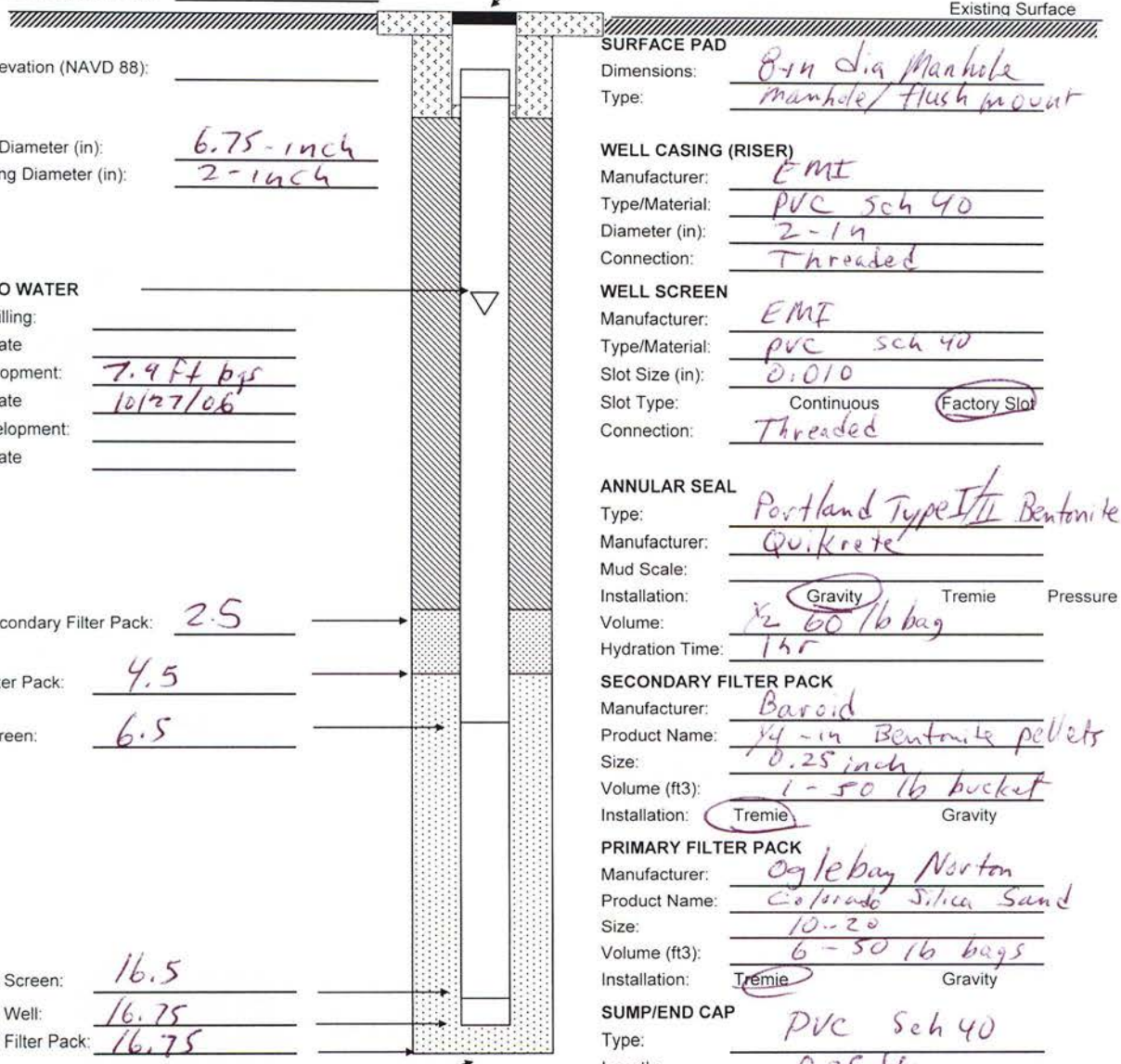
Surface Elevation (NAVD 88):

Casing Elevation (NAVD 88):

Borehole Diameter (in): 6.75-inch
Well Casing Diameter (in): 2-inch

DEPTH TO WATER
During Drilling:
Date
Pre Development: 7.4 ft bgs
Date 10/27/06
Post Development:
Date

Top of Secondary Filter Pack: 2.5
Top of Filter Pack: 4.5
Top of Screen: 6.5
Bottom of Screen: 16.5
Bottom of Well: 16.75
Bottom of Filter Pack: 16.75
Borehole Depth: 16.75



PROTECTIVE CASING
Type: Morrison
Dimensions: 8-in dia
Length: 12-in

SURFACE PAD
Dimensions: 8-in dia Manhole
Type: manhole/flush mount

WELL CASING (RISER)
Manufacturer: EMI
Type/Material: PVC Sch 40
Diameter (in): 2-in
Connection: Threaded

WELL SCREEN
Manufacturer: EMI
Type/Material: PVC Sch 40
Slot Size (in): 0.010
Slot Type: Continuous (Factory Slot)
Connection: Threaded

ANNULAR SEAL
Type: Portland Type I/II Bentonite Quick Gel
Manufacturer: Quikrete
Mud Scale:
Installation: (Gravity) Tremie Pressure
Volume: ½ 60 lb bag
Hydration Time: 1hr

SECONDARY FILTER PACK
Manufacturer: Baroid
Product Name: ¼-in Bentonite pellets
Size: 0.25 inch
Volume (ft3): 1-50 lb bucket
Installation: (Tremie) Gravity

PRIMARY FILTER PACK
Manufacturer: Ogleby Norton
Product Name: Colorado Silica Sand
Size: 10-20
Volume (ft3): 6-50 lb bags
Installation: (Tremie) Gravity

SUMP/END CAP
Type: PVC Sch 40
Length: 0.25 ft

BACKFILL MATERIAL
Type: NA
Volume:

Comments:

B-4

NationView, March 2013

HTW DRILLING LOG

1.COMPANY NAME NationView	2.DRILLING CONTRACTOR Vironex	HOLE NO. SD08-MW10 SHEET 1 OF 2 SHEETS
3.PROJECT SD-08 LTM Program	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Chris Clark	6.MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 7822DT DPT Rig	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 6.25" O.D. Hollow Stem Augers 3" Dual Tube sampler	8.HOLE LOCATION (WGS 84, UTM Meters) Northing 3634973.540 Easting 399604.268 9.SURFACE ELEVATION (FT. AMSL) 4086.683	
	10.DATE STARTED 26-Mar-13	11.DATE COMPLETED 26-Mar-13
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 9.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED	
14.TOTAL DEPTH OF HOLE (ft bgs) 20	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18.GEOTECHNICAL SAMPLES:	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None			

20.SAMPLES FOR CHEMICAL ANALYSIS: 2(5 and 9')	VOC	TAL	SVOC	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260	6010				

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Monitoring Well	NA	2" PVC	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Gravel Backfill Material					
1	5YR 4/4 - Reddish Brown Silty Sand Dry	0-2 PID: 0.0 ppm				
2						
3	Fine grained gyprum inclusions					
		2-4 PID: 0.0 ppm				
4						
			SD08-MW10-SB-05 Collected at 1015			
5						
		4-6 PID: 0.0 ppm				
6						
7		6-8 PID: 0.0 ppm				
8						
			SD08-MW10-SB-09 Collected at 1030			
9	Saturated Silty Sand 2.5 YR - Light Reddish Brown	8-10 PID: 0.0 ppm				
10						

HTW DRILLING LOG

HOLE NO. SD08-MW10

PROJECT: SD-08 LTM Program

INSPECTOR: Z. Beck

SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11						
	12						10 - 20 Logged From Auger Cuttings
	13						
	14		10-15 PID: 20.1 ppm				
	15						
	16						
	17	Saturated Silty Clay 5YR 4/4 - Reddish Brown					
	18						
	19	Slight hydrocarbon odor in the saturated soils below the water table.	15-20 PID: 54.9 ppm				
	20						
	21	TD: 20' bgs					
	22						
	23						
	24						
	25						

HTW DRILLING LOG

1.COMPANY NAME NationView	2.DRILLING CONTRACTOR Vironex	HOLE NO. SD08-MW11 SHEET 1 OF 2 SHEETS
3.PROJECT SD-08 LTM Program	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Chris Clark	6.MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 7822DT DPT Rig	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 6.25" O.D. Hollow Stem Augers 3" Dual Tube sampler	8.HOLE LOCATION (WGS 84, UTM Meters) Northing 3634929.961 Easting 399582.714 9.SURFACE ELEVATION (FT. AMSL) 4088.027	
	10.DATE STARTED 26-Mar-13	11.DATE COMPLETED 26-Mar-13
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 9.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED	
14.TOTAL DEPTH OF HOLE (ft bgs) 20	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18.GEOTECHNICAL SAMPLES:	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None			

20.SAMPLES FOR CHEMICAL ANALYSIS: 5(5 and 9')	VOC	TAL	SVOC	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260	6010				

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Monitoring Well	NA	2" PVC	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Top soil / Gravels					
1						
	10YR 8/3-Very Pale Brown Silty Sand Dry	0-2 PID: 0.7 ppm				
2						
3		2-4 PID: 1.2 ppm				
4						
	2.5 YR 7/4 - Light Reddish Brown Silty Sand		SD08-MW11-SB-05 SD08-MW11-SB-05-MS SD08-MW11-SB-05-MSD Collected at 1400			
5						
6		4-6 PID: 0.0 ppm				
7		6-8 PID: 0.8 ppm				
8						
	5 YR 4/4-Reddish Brown Clayey Silt		SD08-MW11-SB-09 SD08-MW11-SB-09-A Collected at 1415			
9	Saturated at 9' bgs					
10		8-10 PID: 0.0 ppm				

HTW DRILLING LOG

HOLE NO. SD08-MW11

PROJECT: SD-08 LTM Program

INSPECTOR: Z. Beck

SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	2.5 7/4-Light Reddish Brown Sand Moist					
	11						
	12	5YR 4/4 - Reddish Brown Silty Sand Saturated					10 - 20 Logged From Auger Cuttings
	13						
	14						
			10-15 PID: 0.0 ppm				
	15						
	16						
	17						
	18						
	19						
			15-20 PID: 0.0 ppm				
	20						
		TD: 20' bgs					
	21						
	22						
	23						
	24						
	25						

HTW DRILLING LOG

1.COMPANY NAME NationView	2.DRILLING CONTRACTOR Vironex	HOLE NO. SD08-MW12 SHEET 1 OF 2 SHEETS
3.PROJECT SD-08 LTM Program	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Chris Clark	6.MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 7822DT DPT Rig	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 6.25" O.D. Hollow Stem Augers 5' Macro Sampler	8.HOLE LOCATION (WGS 84, UTM Meters) Northing 3634976.038 Easting 399863.715 9.SURFACE ELEVATION (FT. AMSL) 4076.212	
	10.DATE STARTED 27-Mar-13	11.DATE COMPLETED 27-Mar-13
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED	
14.TOTAL DEPTH OF HOLE (ft bgs) 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18.GEOTECHNICAL SAMPLES:	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None			

20.SAMPLES FOR CHEMICAL ANALYSIS: None	VOC	TAL	SVOC	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Monitoring Well	NA	2" PVC	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	10YR 8/3 - Very Pale Brown Silty Sand					0 - 5 Logged From soil sampler
1						
2						
3	2.5 YR 7/4 - Light reddish brown Silty Sand Moist					
4		0 - 5 PID: 0.0 ppm				
5	2.5 YR 7/4 - Light reddish brown Sand Saturated					
6						
7						
8						5 - 15 Logged From Auger Cuttings
9		5-10 PID: 0.0 ppm				
10						

HTW DRILLING LOG

HOLE NO. SD08-MW12

PROJECT: SD-08 LTM Program

INSPECTOR: Z. Beck

SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11						
	12	10YR 8/3-Very Pale Brown Sand Saturated					5 - 15 Logged From Auger Cuttings
	13						
	14		10-15 PID: 0.0 ppm				
	15	TD: 15' bgs					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

HTW DRILLING LOG

1.COMPANY NAME NationView	2.DRILLING CONTRACTOR Vironex	HOLE NO. SD08-MW13 SHEET 1 OF 2 SHEETS
3.PROJECT SD-08 LTM Program	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Chris Clark	6.MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 7822DT DPT Rig	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 6.25" O.D. Hollow Stem Augers 5' Macro Sampler	8.HOLE LOCATION (WGS 84, UTM Meters) Northing 3634881.186 Easting 399846.463 9.SURFACE ELEVATION (FT. AMSL) 4074.681	
	10.DATE STARTED 27-Mar-13	11.DATE COMPLETED 27-Mar-13
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED	
14.TOTAL DEPTH OF HOLE (ft bgs) 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18.GEOTECHNICAL SAMPLES:	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
None			

20.SAMPLES FOR CHEMICAL ANALYSIS: None	VOC	TAL	SVOC	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Monitoring Well	NA	2" PVC	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	10YR 8/3 - Very Pale Brown Silty Sand					0 - 5 Logged From soil sampler
1						
2						
3	2.5 YR 7/4 - Light reddish brown Silty Sand Moist					
4						
5	2.5 YR 7/4 - Light reddish brown Sand Saturated	0 - 5 PID: 0.0 ppm				
6						
7						
8						5 - 15 Logged From Auger Cuttings
9		5-10 PID: 0.0 ppm				
10						

	Project SD-08 LTM Program	HOLE NO. SD08-MW13

HTW DRILLING LOG

HOLE NO. SD08-MW13

PROJECT: SD-08 LTM Program

INSPECTOR: Z. Beck

SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11						
	12	10YR 8/3-Very Pale Brown Sand Saturated					5 - 15 Logged From Auger Cuttings
	13						
	14		10-15 PID: 0.0 ppm				
	15	TD: 15' bgs					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SD-08	**WELL/BORING ID:**	SD08-MW10
PROJECT NAME:	SD-08 LTM program	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	10-0004.01.010	**DATE(S):**	3/26/2013
DRILLING CONTRACTOR:	Vironex	**SURVEYOR:**	T. Lucero
DRILLER:	C. Clark	**NORTHING (UTM):**	3634973.5400
GEOLOGIST:	Z. Beck	**EASTING (UTM):**	399604.2681

NOT TO SCALE

Surface Elevation (ft amsl):

Casing Elevation (ft amsl): 4086.683

Borehole Diameter (in): 6.25

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling: 9.00

Date 3/26/2013

Pre Development:

Date

Post Development:

Date

Top of Secondary Filter Pack: 1.00

Top of Filter Pack: 8.00

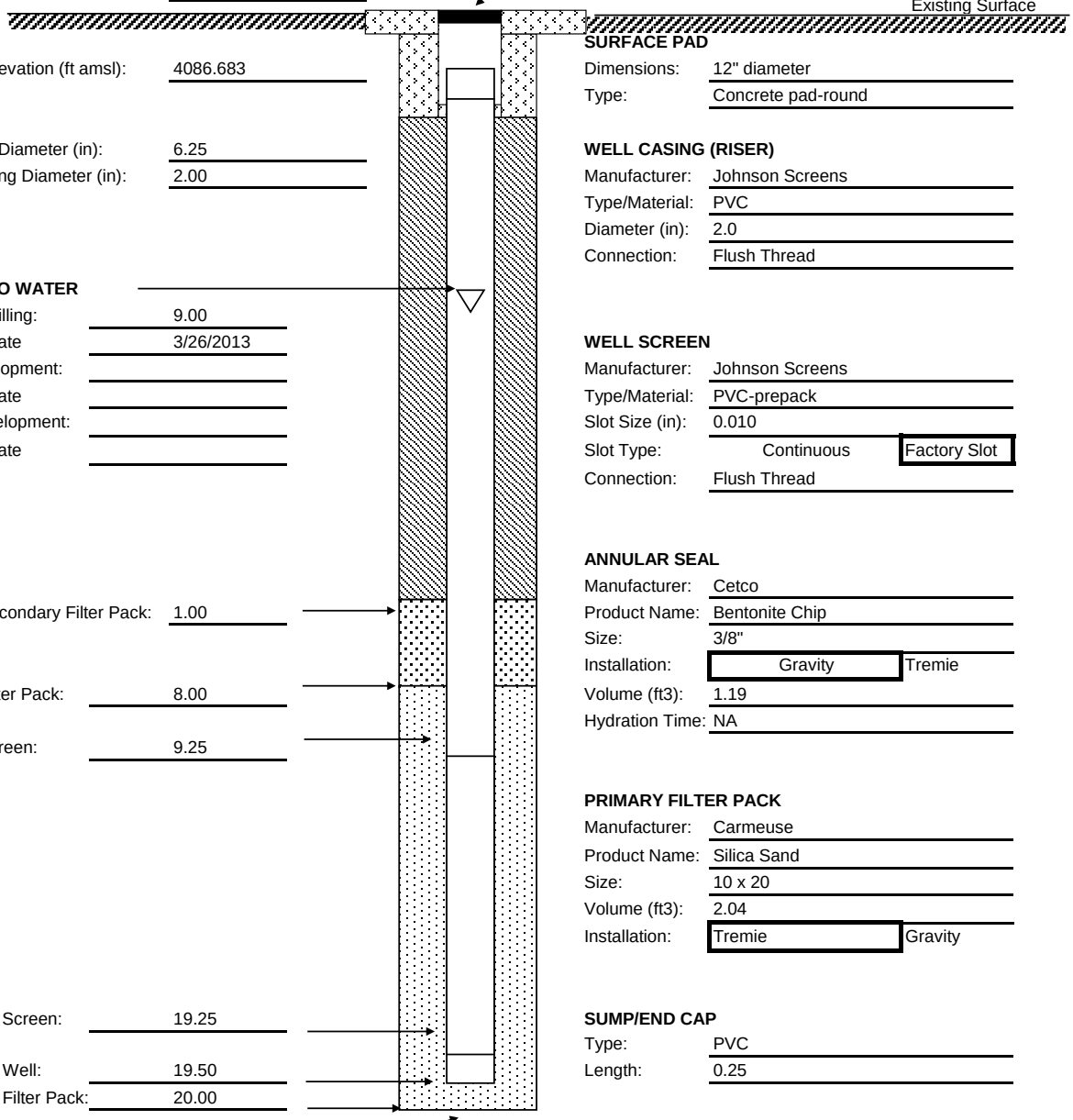
Top of Screen: 9.25

Bottom of Screen: 19.25

Bottom of Well: 19.50

Bottom of Filter Pack: 20.00

Borehole Depth: 20.00



PROTECTIVE CASING

Type: Flush Mount Cover

Dimensions: 8" diameter

Length: 12" deep

SURFACE PAD

Dimensions: 12" diameter

Type: Concrete pad-round

WELL CASING (RISER)

Manufacturer: Johnson Screens

Type/Material: PVC

Diameter (in): 2.0

Connection: Flush Thread

WELL SCREEN

Manufacturer: Johnson Screens

Type/Material: PVC-prepack

Slot Size (in): 0.010

Slot Type: Continuous | **Factory Slot**

Connection: Flush Thread

ANNULAR SEAL

Manufacturer: Cetco

Product Name: Bentonite Chip

Size: 3/8"

Installation: **Gravity** | Tremie

Volume (ft3): 1.19

Hydration Time: NA

PRIMARY FILTER PACK

Manufacturer: Carmeuse

Product Name: Silica Sand

Size: 10 x 20

Volume (ft3): 2.04

Installation: **Tremie** | Gravity

SUMP/END CAP

Type: PVC

Length: 0.25

BACKFILL MATERIAL

Type: NA

Volume: NA

Comments:

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SD-08	**WELL/BORING ID:**	SD08-MW11
PROJECT NAME:	SD-08 LTM program	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	10-0004.01.010	**DATE(S):**	3/26/2013
DRILLING CONTRACTOR:	Vironex	**SURVEYOR:**	T. Lucero
DRILLER:	C. Clark	**NORTHING (UTM):**	3634929.961
GEOLOGIST:	Z. Beck	**EASTING (UTM):**	399582.7143

NOT TO SCALE

Surface Elevation (ft amsl):

Casing Elevation (ft amsl): 4088.027

Borehole Diameter (in): 6.25

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling: 9.00

Date 3/26/2013

Pre Development:

Date

Post Development:

Date

Top of Secondary Filter Pack: 1.00

Top of Filter Pack: 8.00

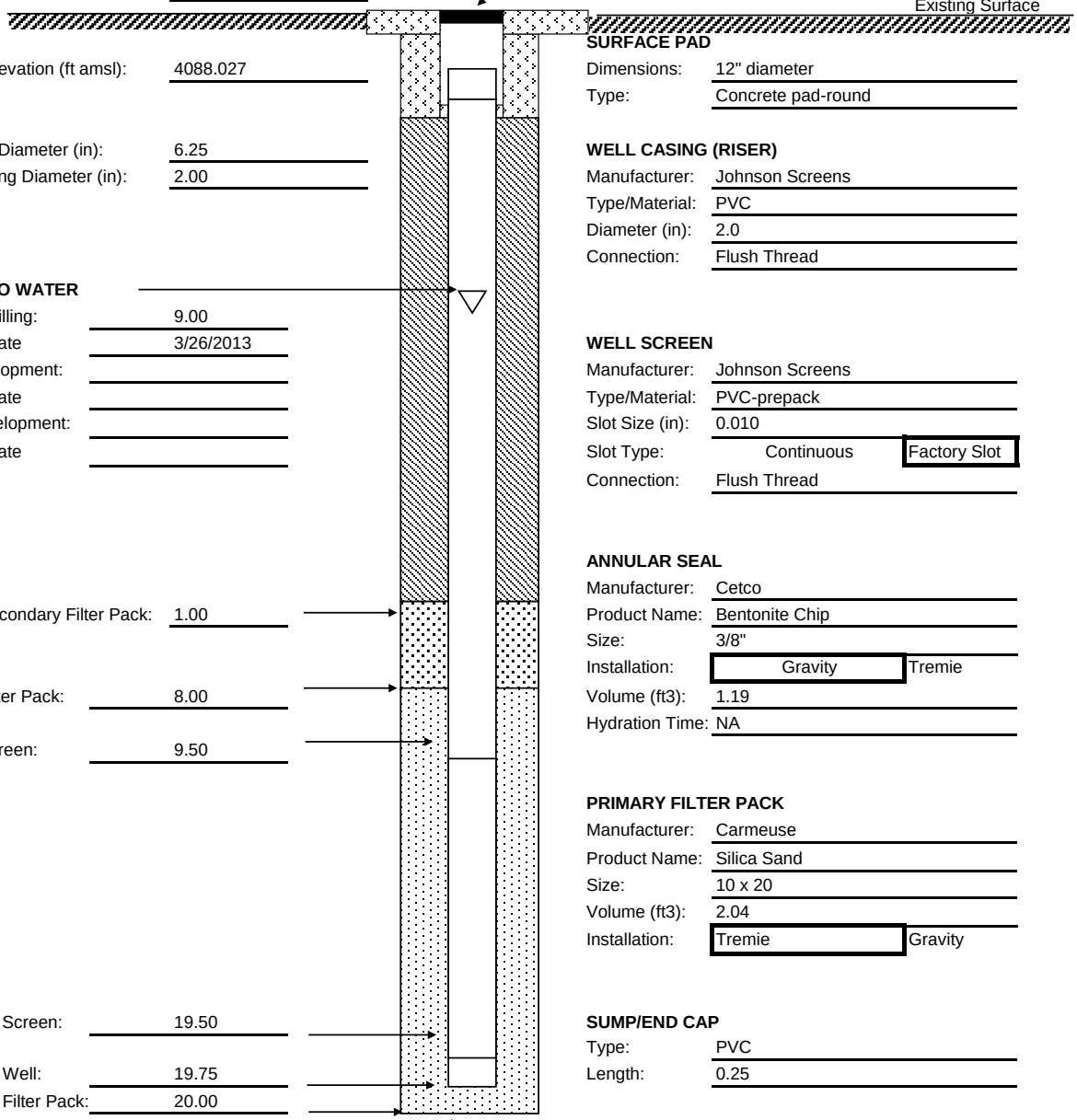
Top of Screen: 9.50

Bottom of Screen: 19.50

Bottom of Well: 19.75

Bottom of Filter Pack: 20.00

Borehole Depth: 20.00



PROTECTIVE CASING

Type: Flush Mount Cover

Dimensions: 8" diameter

Length: 12" deep

SURFACE PAD

Dimensions: 12" diameter

Type: Concrete pad-round

WELL CASING (RISER)

Manufacturer: Johnson Screens

Type/Material: PVC

Diameter (in): 2.0

Connection: Flush Thread

WELL SCREEN

Manufacturer: Johnson Screens

Type/Material: PVC-prepack

Slot Size (in): 0.010

Slot Type: Continuous | **Factory Slot**

Connection: Flush Thread

ANNULAR SEAL

Manufacturer: Cetco

Product Name: Bentonite Chip

Size: 3/8"

Installation: **Gravity** | Tremie

Volume (ft3): 1.19

Hydration Time: NA

PRIMARY FILTER PACK

Manufacturer: Carmeuse

Product Name: Silica Sand

Size: 10 x 20

Volume (ft3): 2.04

Installation: **Tremie** | Gravity

SUMP/END CAP

Type: PVC

Length: 0.25

BACKFILL MATERIAL

Type: NA

Volume: NA

Comments:

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SD-08	**WELL/BORING ID:**	SD08-MW12
PROJECT NAME:	SD-08 LTM program	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	10-0004.01.010	**DATE(S):**	3/27/2013
DRILLING CONTRACTOR:	Vironex	**SURVEYOR:**	T. Lucero
DRILLER:	C. Clark	**NORTHING (UTM):**	3634976.038
GEOLOGIST:	Z. Beck	**EASTING (UTM):**	399863.7146

NOT TO SCALE

Surface Elevation (ft amsl):

Casing Elevation (ft amsl): 4076.212

Borehole Diameter (in): 6.25

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling: 2.50

Date 3/27/2013

Pre Development:

Date

Post Development:

Date

Top of Secondary Filter Pack: 1.00

Top of Filter Pack: 3.00

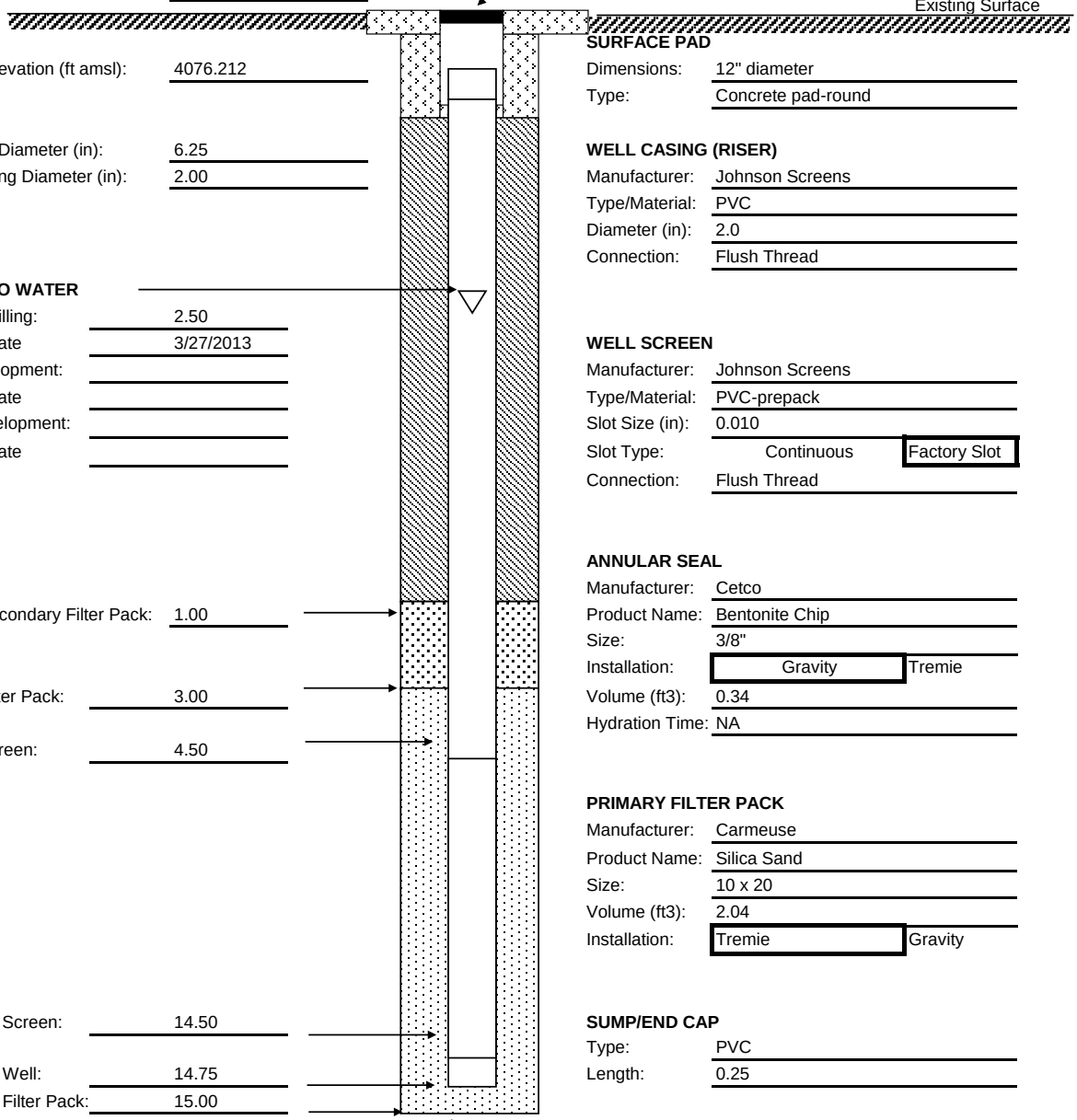
Top of Screen: 4.50

Bottom of Screen: 14.50

Bottom of Well: 14.75

Bottom of Filter Pack: 15.00

Borehole Depth: 15.00



PROTECTIVE CASING

Type: Flush Mount Cover

Dimensions: 8" diameter

Length: 12" deep

SURFACE PAD

Dimensions: 12" diameter

Type: Concrete pad-round

WELL CASING (RISER)

Manufacturer: Johnson Screens

Type/Material: PVC

Diameter (in): 2.0

Connection: Flush Thread

WELL SCREEN

Manufacturer: Johnson Screens

Type/Material: PVC-prepack

Slot Size (in): 0.010

Slot Type: Continuous | **Factory Slot**

Connection: Flush Thread

ANNULAR SEAL

Manufacturer: Cetco

Product Name: Bentonite Chip

Size: 3/8"

Installation: **Gravity** | Tremie

Volume (ft3): 0.34

Hydration Time: NA

PRIMARY FILTER PACK

Manufacturer: Carmeuse

Product Name: Silica Sand

Size: 10 x 20

Volume (ft3): 2.04

Installation: **Tremie** | Gravity

SUMP/END CAP

Type: PVC

Length: 0.25

BACKFILL MATERIAL

Type: NA

Volume: NA

Comments:

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SD-08	**WELL/BORING ID:**	SD08-MW13
PROJECT NAME:	SD-08 LTM program	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	10-0004.01.010	**DATE(S):**	3/27/2013
DRILLING CONTRACTOR:	Vironex	**SURVEYOR:**	T. Lucero
DRILLER:	C. Clark	**NORTHING (UTM):**	3634881.186
GEOLOGIST:	Z. Beck	**EASTING (UTM):**	399846.4628

NOT TO SCALE

Surface Elevation (ft amsl):

Casing Elevation (ft amsl): 4074.681

Borehole Diameter (in): 6.25

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling: 2.50

Date 3/27/2013

Pre Development:

Date

Post Development:

Date

Top of Secondary Filter Pack: 1.00

Top of Filter Pack: 3.00

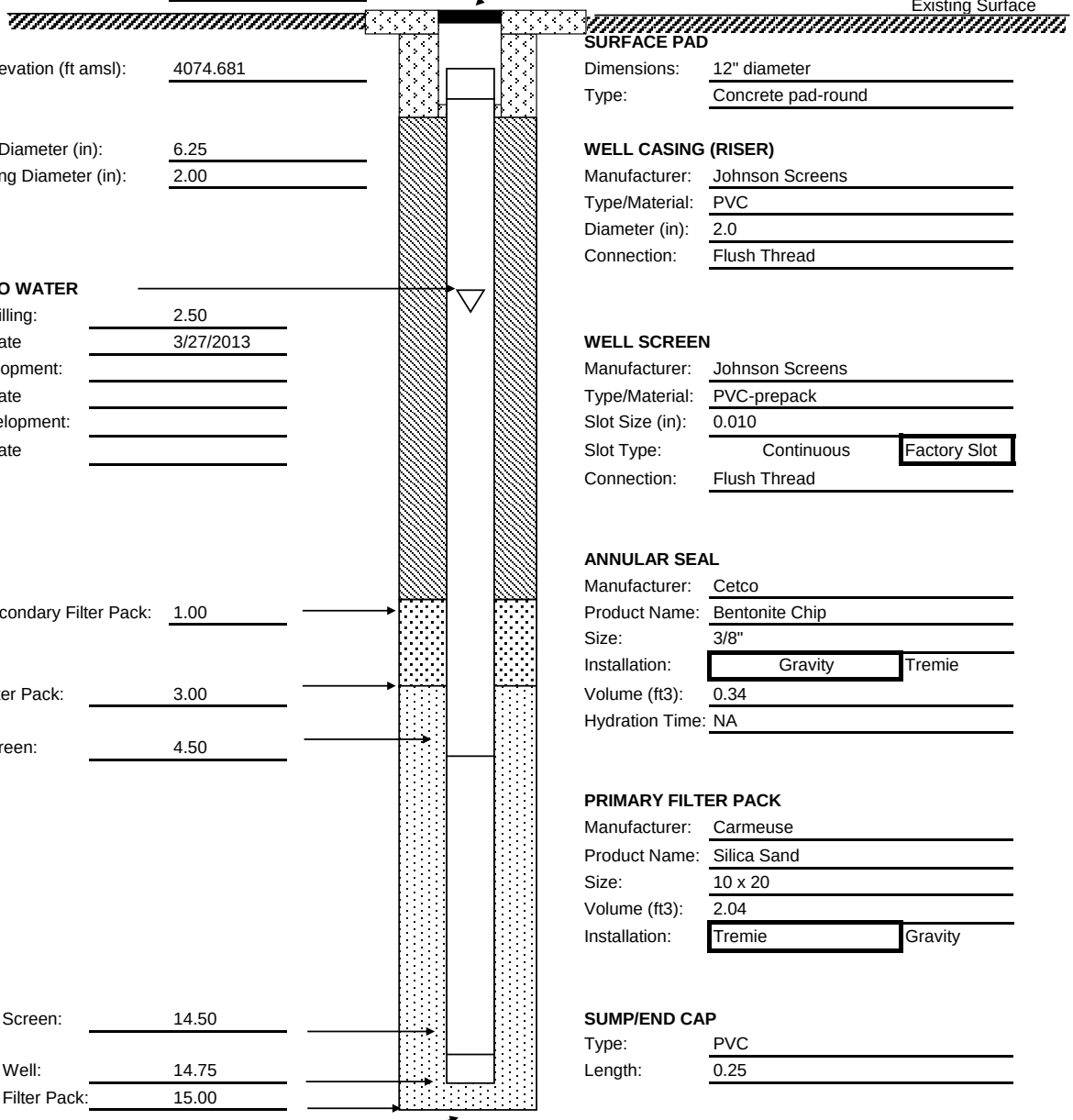
Top of Screen: 4.50

Bottom of Screen: 14.50

Bottom of Well: 14.75

Bottom of Filter Pack: 15.00

Borehole Depth: 15.00



PROTECTIVE CASING

Type: Flush Mount Cover

Dimensions: 8" diameter

Length: 12" deep

SURFACE PAD

Dimensions: 12" diameter

Type: Concrete pad-round

WELL CASING (RISER)

Manufacturer: Johnson Screens

Type/Material: PVC

Diameter (in): 2.0

Connection: Flush Thread

WELL SCREEN

Manufacturer: Johnson Screens

Type/Material: PVC-prepack

Slot Size (in): 0.010

Slot Type: Continuous | **Factory Slot**

Connection: Flush Thread

ANNULAR SEAL

Manufacturer: Cetco

Product Name: Bentonite Chip

Size: 3/8"

Installation: **Gravity** | Tremie

Volume (ft3): 0.34

Hydration Time: NA

PRIMARY FILTER PACK

Manufacturer: Carmeuse

Product Name: Silica Sand

Size: 10 x 20

Volume (ft3): 2.04

Installation: **Tremie** | Gravity

SUMP/END CAP

Type: PVC

Length: 0.25

BACKFILL MATERIAL

Type: NA

Volume: NA

Comments:

APPENDIX C

FIELD SAMPLING DOCUMENTATION

(Provided on Enclosed CD)

C-1

MW Sample Collection Forms (Nov 2006, Bhate)

MONITORING WELL SAMPLE COLLECTION FORM

bhate associates

LOCATION	Site:	SD-08	Location ID:	MW-08-01	Date: 11/13/2006
	Project Name:	Additional Investigation	Project No./Phase:		Recorded By: T. Lucero
EQUIPMENT	Pump Type/ID#:		Water Quality Meter/ID#:		PID Type/ID#:
	Water Level Indicator Type/ID#:		Other Equipment/ID#:		Decon Method:
	Tubing Type/Diameter (in):		Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	10.70	Casing: Type	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	19.57	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.87	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.42	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/13/2006	1124	10.70	1000	1000	22.38	6.47	12.65	71.9	7.3	-27.1	Clear, Petroleum odor
11/13/2006	1127	10.70	2000	1000	23.74	6.54	12.54	84.0	90	-29.7	Clear, Petroleum odor
11/13/2006	1131	10.70	3000	1000	23.49	6.65	12.58	68.8	60	-24.3	Clear, Petroleum odor
11/13/2006	1134	10.70	4000	1000	23.72	6.64	12.69	70.3	120	-27.5	Clear, Petroleum odor

Colorimeter Results

Time	Analyte	Dilution	Result	Units
Sample Time				
1140				
Sample Identification				
MW-08-01				

Conversions	**Stabilization Criteria**			
1 L = 0.26 gals	Temp	+/- 0.5	DO	+/- 0.2
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 10
	Cond	+/- 25	ORP	+/- 10

No. Containers/Volume/Type			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
3	40 ml	VOAs			8260	VOCs
2	1 L	Glass Amber			8270	SVOCs
2	1L	Glass Amber			8081A	Pesticides
1	500 ml	Plastic			200.7	RCRA Metals

MONITORING WELL SAMPLE COLLECTION FORM

bhate associates

LOCATION	Site:	SD-08	Location ID:	MW-08-05	Date: 11/13/2006
	Project Name:	Additional Investigation	Project No./Phase:		Recorded By: T. Lucero
EQUIPMENT	Pump Type/ID#:		Water Quality Meter/ID#:		PID Type/ID#:
	Water Level Indicator Type/ID#:		Other Equipment/ID#:		Decon Method:
	Tubing Type/Diameter (in):		Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	9.10	Casing: Type	Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC):	18.93	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	9.83	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.57	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/13/2006	0922	--	--	--	--	--	--	--	70	--	Multiparamter Probe inoperable
11/13/2006	0934	--	--	--	--	--	--	--	60	--	Multiparamter Probe inoperable
11/13/2006	0937	--	--	--	--	--	--	--	26	--	Multiparamter Probe inoperable

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units	3	40 ml	VOAs			8260	VOCs
Sample Time					2	1 L	Glass Amber			8270	SVOCs
0940											
Sample Identification					2	1L	Glass Amber			8081A	Pesticides
MW-08-05											
Conversions	Stabilization Criteria				1	500 ml	Plastic			200.7	RCRA Metals
1 L = 0.26 gals	Temp	+/- 0.5	DO	+/- 0.2							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 10							
	Cond	+/- 25	ORP	+/- 10							

MONITORING WELL SAMPLE COLLECTION FORM

bhate associates

LOCATION	Site:	SD-08	Location ID:	MW-08-07	Date: 12/1/2006
	Project Name:	Additional Investigation	Project No./Phase:		Recorded By: T. Lucero
EQUIPMENT	Pump Type/ID#:		Water Quality Meter/ID#:		PID Type/ID#:
	Water Level Indicator Type/ID#:		Other Equipment/ID#:		Decon Method:
	Tubing Type/Diameter (in):		Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	8.10	Casing: Type	Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC):	16.50	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.40	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.34	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
12/1/2006	1205		1,000	1,000	22.72	7.58	4.43	28.31			Initial reading
12/1/2006	1213		1,500	1,000	23.66	7.15	3.63	22.37			1 well volume removed
12/1/2006	1222		3,250	1,000	23.62	6.89	3.65	19.96			2 well volumes removed
12/1/2006	1228		5,000	1,000	23.33	6.80	3.57	22.6			3 well volumes removed

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs			8260	VOCs
Sample Time					2	1 L	Glass Amber			8270	SVOCs
1230											
Sample Identification					2	1L	Glass Amber			8081A	Pesticides
MW-08-07											
Conversions	**Stabilization Criteria**				1	500 ml	Plastic			200.7	RCRA Metals
1 L = 0.26 gals	Temp	+/- 0.5	DO	+/- 0.2							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 10							
	Cond	+/- 25	ORP	+/- 10							

MONITORING WELL SAMPLE COLLECTION FORM

bhate associates

LOCATION	Site:	SD-08	Location ID:	MW-08-08	Date: 11/16/2006
	Project Name:	Additional Investigation	Project No./Phase:		Recorded By: T. Lucero
EQUIPMENT	Pump Type/ID#:		Water Quality Meter/ID#:		PID Type/ID#:
	Water Level Indicator Type/ID#:		Other Equipment/ID#:		Decon Method:
	Tubing Type/Diameter (in):		Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	16.11	Casing: Type	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	7.19	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.92	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.43	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/16/2006	1208	7.19	200	1,000	21.80	7.56	30.20	47.0	250	242.0	Initial Reading
11/16/2006	1215	7.19	1,400	1,000	21.40	7.38	11.56	77.6	Error	235.1	
11/16/2006	1222	7.19	2,800	1,000	21.30	7.18	20.55	72.5	Error	258.7	
11/16/2006	1228	7.19	5,250	1,000	21.05	7.21	24.70	68.5	Error	257.1	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1245
Sample Identification
MW-08-08 & MW-08-08-D & MW-08-08-MS/MSD

Conversions	**Stabilization Criteria**			
1 L = 0.26 gals	Temp	+/- 0.5	DO	+/- 0.2
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 10
	Cond	+/- 25	ORP	+/- 10

No. Containers/Volume/Type			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
3	40 ml	VOAs			8260	VOCs
2	1 L	Glass Amber			8270	SVOCs
2	1L	Glass Amber			8081A	Pesticides
1	500 ml	Plastic			200.7	RCRA Metals

MONITORING WELL SAMPLE COLLECTION FORM

bhate associates

LOCATION	Site:	SD-08	Location ID:	S10-MW01	Date: 11/13/2006
	Project Name:	Additional Investigation	Project No./Phase:		Recorded By: T. Lucero
EQUIPMENT	Pump Type/ID#:		Water Quality Meter/ID#:		PID Type/ID#:
	Water Level Indicator Type/ID#:		Other Equipment/ID#:		Decon Method:
	Tubing Type/Diameter (in):		Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	10.41	Casing: Type	Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC):	21.68	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	11.27	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.80	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/13/2006	1033	10.41	1000	1000	20.34	6.80	15.74	71.3	19	-15.7	Yellowish color, slight odor
11/13/2006	1039	10.41	2000	1000	20.00	6.59	15.01	79.8	30	-15.9	Yellowish color, slight odor
11/13/2006	1042	10.41	3000	1000	20.07	6.54	14.76	74.1	37	-16.1	Yellowish color, slight odor
11/13/2006	1046	10.41	4000	1000	20.39	6.56	15.34	70.1	50	23.9	Yellowish color, slight odor

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units	3	40 ml	VOAs			8260	VOCs
Sample Time					2	1 L	Glass Amber			8270	SVOCs
1100											
Sample Identification					2	1L	Glass Amber			8081A	Pesticides
S10-MW01											
Conversions	Stabilization Criteria				1	500 ml	Plastic			200.7	RCRA Metals
1 L = 0.26 gals	Temp	+/- 0.5	DO	+/- 0.2							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 10							
	Cond	+/- 25	ORP	+/- 10							

C-2

Quarter 1 MW Sample Collection Forms (Jan 2012, NationView)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-01	Date: 1/26/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	13.33	Casing: Type PVC	Diam. (in) 2.00	Weather: 55F - Clear and Sunny
	(B) Total Well Depth (ft BTOC):	19.51	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	6.18	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.99	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/26/2012	1120	13.73	3,790	450	21.87	6.68	9.96	0.00	0.9	-70	Clear-Strong fuel and organic odor
1/26/2012	1127	13.73	7,580	450	22.02	6.69	10	0.00	0.7	-71	Clear-Strong fuel and organic odor
1/26/2012	1134	13.73	11,370	450	21.99	6.69	10.01	0.00	0.7	-71	Clear-Strong fuel and organic odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	None	N	300 / 9056	General chemistry; chloride, sulfate, fluoride, and nitrate-nitrite
Sample Time					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals- Total
Primary - 1140 Dup - 1155					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
Sample Identification					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
MW-08-01 & MW-08-01A											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-02	Date: 1/26/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.43	Casing: Type PVC	Diam. (in) 2.00	Weather: 45° Clear-Sunny-Wind calm
	(B) Total Well Depth (ft BTOC):	18.80	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	4.37	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.70	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/26/2012	1447	14.43	7,580	450	21.9	6.80	3.18	0.38	4.55	-3	petroleum and organic odor-clear-no sheen
1/26/2012	1457	14.44	11,370	450	21.9	6.79	3.18	0.20	1.59	-4	petroleum and organic odor-clear-no sheen
1/26/2012	1505	14.45	15,160	500	22.03	6.82	3.18	0.05	1.37	-13	petroleum and organic odor-clear-no sheen
1/26/2012	1515	14.46	18,950	500	22.02	6.80	3.18	0.00	0.49	-14	petroleum and organic odor-clear-no sheen
1/26/2012	1525	14.46	22,950	500	22.03	6.79	3.19	0.00	0.51	-13	petroleum and organic odor-clear-no sheen

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	None	N	300 / 9056	General chemistry; chloride, sulfate, fluoride, and nitrate-nitrite
Sample Time					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals- Total
1530					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
Sample Identification					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
MW-08-02											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-03	Date: 1/25/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	12.95	Casing: Type PVC	Diam. (in) 2.00	Weather: 60° Clear-Sunny-Wind ~5mph N-NW
	(B) Total Well Depth (ft BTOC):	23.25	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	10.30	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.65	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/25/2012	1528	12.95	3,790	450	20.29	7.21	10.8	0.44	1.74	77	Clear-No odor
1/25/2012	1546	13.68	10,043	450	20.65	7.21	12.2	0.00	1.22	85	Clear-No odor
1/25/2012	1600	13.74	16,296	450	20.72	7.21	12.50	0.00	1.05	89	Clear-No odor
1/25/2012	1615	13.76	22,549	450	20.7	7.21	13.4	0.00	0.76	91	Clear-No odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	None	N	300 / 9056	General chemistry; chloride, sulfate, fluoride, and nitrate-nitrite
Sample Time					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals- Total
1620					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
Sample Identification					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
MW-08-03											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-04	Date: 1/25/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	10.85	Casing: Type PVC	Diam. (in) 2.00	Weather: 55° Clear-Sunny-Wind calm
	(B) Total Well Depth (ft BTOC):	17.90	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.05	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.13	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/25/2012	1030	11.50	1,000	350	17.89	7.41	5.75	4.09	1.57	123	Clear-No odor
1/25/2012	1041	11.75	5,170	400	17.24	7.45	5.62	2.92	0.66	127	Clear-No odor
1/25/2012	1054	11.85	9,570	400	17.52	7.53	5.53	1.45	0.32	113	Clear-No odor
1/25/2012	1115	11.88	13,970	400	17.81	7.56	5.52	1.34	0.26	109	Clear-No odor
1/25/2012	1125	11.9	18,370	400	17.89	7.58	5.51	1.35	0.24	109	Clear-No odor

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time

1130

Sample Identification

MW-08-04

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	250 ml	Poly	None	N	300 / 9056	General chemistry; chloride, sulfate, fluoride, and nitrate-nitrite
1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals- Total
1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-05	Date: 1/25/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.64	Casing: Type PVC	Diam. (in) 2.00	Weather: 60° Clear-Sunny-Wind ~5mph N-NW
	(B) Total Well Depth (ft BTOC):	18.91	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.27	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.16	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/25/2012	1300	11.64	500	450	18.21	6.97	2.57	0.78	9.21	142	Clear-No odor
1/25/2012	1315	11.96	5,685	450	18.2	6.92	2.49	0.49	4.97	-5	Clear-No odor
1/25/2012	1325	12.00	17,018	450	18.24	6.94	2.48	0.75	1.73	1	Clear-No odor
1/25/2012	1339	12.02	15,160	450	18.26	7.01	2.48	0.99	0.80	7	Clear-No odor
1/25/2012	1351	12	22,740	450	18.28	6.97	2.48	1.10	0.33	21	Clear-No odor
1/25/2012	1403	12	26,530	450	18.3	6.99	2.48	1.10	0.29	26	Clear-No odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	None	N	300 / 9056	General chemistry; chloride, sulfate, fluoride, and nitrate-nitrite
Sample Time					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals- Total
1410					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
Sample Identification					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
MW-08-05											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-06	Date: 1/24/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	10.23	Casing: Type PVC	Diam. (in) 2.00	Weather: 46F-light rain-partly cloudy
	(B) Total Well Depth (ft BTOC):	15.02	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	4.79	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.77	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/24/2012	1420	10.23	8,717	700	Purge for 27min prior to measuring parameters						Clear-No odor
	1447	10.45	11,635	350	17.69	7.68	22	0.50	27.7	68	Clear-No odor
	1457	10.50	14,553	350	17.89	7.59	21.80	0.49	4.8	90	Clear-No odor
	1508	10.53	17,471	350	17.95	7.56	21.6	0.84	1.9	104	Clear-No odor
	1519	10.53	20,389	350	17.98	7.57	22	0.82	1.7	108	Clear-No odor
	1529	10.55	23,307	350	17.98	7.57	22.00	0.82	1.2	110	Clear-No odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	None	N	300 / 9056	General chemistry; chloride, sulfate, fluoride, and nitrate-nitrite
Sample Time					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals
1545					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
Sample Identification											
MW08-06											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-07	Date: 1/26/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	10.54	Casing: Type PVC	Diam. (in) 2.00	Weather: 50° Clear-Sunny
	(B) Total Well Depth (ft BTOC):	16.84	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	6.30	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.01	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/26/2012	0911	10.60	3,790	400	20.71	6.64	3.98	0.43	0.77	96	Clear-Strong fuel and organic odor
1/26/2012	0922	10.62	7,580	400	21.01	6.67	4.01	0.19	1.04	83	Clear-Strong fuel and organic odor
1/26/2012	0932	10.63	11,370	400	21.22	6.68	4.06	0.00	0.79	78	Clear-Strong fuel and organic odor
1/26/2012	0942	10.63	15,160	400	21.22	6.60	4.1	0.00	1.77	77	Clear-Strong fuel and organic odor
1/26/2012	0955	10.63	22,740	400	21.32	6.67	4.11	0.00	0.60	77	Clear-Strong fuel and organic odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	None	N	300 / 9056	General chemistry; chloride, sulfate, fluoride, and nitrate-nitrite
Sample Time					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals- Total
1000					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
Sample Identification					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
MW-08-07											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-08	Date: 1/25/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	9.87	Casing: Type PVC	Diam. (in) 2.00	Weather: 45° Clear-Sunny-Wind calm
	(B) Total Well Depth (ft BTOC):	16.05	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	6.18	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.99	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/25/2012	0828	10.73	3,800	500	19.2	7.21	30.6	0.00	1.20	-3	Clear-Mild organic odor
1/25/2012	0838	10.75	9,800	300	18.27	7.25	32.8	0.00	0.80	-4	Clear-Mild organic odor
1/25/2012	0850	10.75	13,800	300	19.22	7.25	32.80	0.00	1.30	1	Clear-Mild organic odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	None	N	300 / 9056	General chemistry; chloride, sulfate, fluoride, and nitrate-nitrite
Sample Time					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals- Total
900					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
Sample Identification					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
MW-08-08											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

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Quarter 2 MW Sample Collection Forms (Apr 2012, NationView)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: SD-08	Location ID: MW-08-01	Date: 4/25/2012
	Project Name: SD-08 Quarterly Groundwater Sampling	Project No./Phase: 10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type: (Geopump) Peristaltic	Water Quality Meter: YSI	PID Type/ID#: NA
	Water Level Indicator Type: Solinst	Other Equipment: Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in): 1/4" outer-diameter Poly.	Other Equipment:	PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC): 13.44	Casing: Type PVC Diam. (in) 2.00	Weather: 80F - Calm-Partly Cloudy
	(B) Total Well Depth (ft BTOC): 19.51	(E) Casing Volume Multiplier (gal/lin ft):	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A): 6.07	Screen Length (lin ft):	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E): 0.97	Screen Info: Type: Size:	Well Opening PID (ppm): NA

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/25/2012	1038	13.52	3,790	379	22.58	6.45	6.625	6.24	0.3	-55.3	Clear-Strong anerobic odor
4/25/2012	1048	13.50	7,580	379	22.58	6.45	9.63	6.54	0.9	-58.5	Clear-Strong anerobic odor
4/25/2012	1056	13.50	11,370	379	22.62	6.45	9.66	6.58	0.0	-61.8	Clear-Strong anerobic odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	HNO_3	N	6010B / 7470A	TAL Metals- Total
Sample Time					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
Primary - 1100					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
Sample Identification											
MW-08-01 & MW-08-01A											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-02	Date: 4/25/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	YSI	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.22	Casing: Type PVC	Diam. (in) 2.00	Weather: 75° Partly Cloudy-Calm
	(B) Total Well Depth (ft BTOC):	18.80	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	4.58	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.73	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/25/2012	0945	14.30	3,000	300	21.98	6.61	3.04	13.58	0.00	46.3	anerobic odor-clear-no sheen
4/25/2012	0951	14.32	6,000	300	22.01	6.63	3.03	13.81	0.00	23.6	anerobic odor-clear-no sheen
4/25/2012	1000	14.32	9,000	300	22.05	6.64	3.02	13.47	0.00	15.9	anerobic odor-clear-no sheen

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	HNO_3	N	6010B / 7470A	TAL Metals- Total
Sample Time					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
1015					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
Sample Identification											
MW-08-02											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-03	Date: 4/25/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	YSI	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	13.28	Casing: Type PVC	Diam. (in) 2.00	Weather: 70° Partly Cloudy-Calm
	(B) Total Well Depth (ft BTOC):	23.25	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	9.97	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.60	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/25/2012	0725	13.30	6,000	400	20.2	6.91	7.893	2.93	0.00	105.1	Clear-No odor
4/25/2012	0740	13.52	12,253	400	20.34	6.98	9.127	2.96	0.00	103.1	Clear-No odor
4/25/2012	0755	13.53	18,506	400	20.23	7.01	10.10	3.03	0.00	100.8	Clear-No odor
4/25/2012	0810	13.53	24,759	400	20.35	7.02	10.13	2.97	0.00	99	Clear-No odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	HNO_3	N	6010B / 7470A	TAL Metals- Total
Sample Time					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
815					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
Sample Identification											
MW-08-03											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-04	Date: 4/24/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	YSI	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.32	Casing: Type PVC	Diam. (in) 2.00	Weather: 86° Clear-Sunny-Wind calm
	(B) Total Well Depth (ft BTOC):	17.90	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	6.58	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.05	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/24/2012	1303	11.36	3,800	380	19.53	7.19	5.237	5.02	6.99	115.9	Clear-No odor
4/24/2012	1314	11.4	7,600	380	19.55	7.17	5.19	5.24	0.26	112.5	Clear-No odor
4/24/2012	1324	11.40	11,400	380	19.82	7.21	5.19	6.28	0.60	116	Clear-No odor
4/24/2012	1335	11.46	15,200	380	19.63	7.17	5.166	6.98	0.00	121.2	Clear-No odor
4/24/2012	1346	11.46	19,000	380	19.73	7.16	5.18	6.87	0.00	127.3	Clear-No odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	HNO_3	N	6010B / 7470A	TAL Metals- Total
Sample Time					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
1400					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
Sample Identification											
MW-08-04											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: SD-08	Location ID: MW-08-05	Date: 4/24/2012
	Project Name: SD-08 Quarterly Groundwater Sampling	Project No./Phase: 10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type: (Geopump) Peristaltic	Water Quality Meter: YSI	PID Type/ID#: NA
	Water Level Indicator Type: Solinst	Other Equipment: Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in): 1/4" outer-diameter Poly.	Other Equipment:	PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC): 12.04	Casing: Type PVC Diam. (in) 2.00	Weather: 93° Clear-Calm
	(B) Total Well Depth (ft BTOC): 18.91	(E) Casing Volume Multiplier (gal/lin ft):	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A): 6.87	Screen Length (lin ft):	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E): 1.10	Screen Info: Type: Size:	Well Opening PID (ppm): NA

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/24/2012	1500	12.10	4,250	425	19.04	6.76	2.4	7.74	4.47	84.6	Clear-No odor
4/24/2012	1513	12.18	8,500	425	18.91	6.82	2.306	10.80	0.00	60.6	Clear-No odor
4/24/2012	1523	12.20	12,750	425	18.8	6.85	2.31	10.20	0.00	53.2	Clear-No odor
4/24/2012	1538	12.20	17,000	425	18.92	6.87	2.34	10.66	0.00	39	Clear-No odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	HNO_3	N	6010B / 7470A	TAL Metals- Total
Sample Time					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
1545					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
Sample Identification											
MW-08-05											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-06	Date: 4/24/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	YSI	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	10.73	Casing: Type PVC	Diam. (in) 2.00	Weather: 75F-Calm-Clear
	(B) Total Well Depth (ft BTOC):	15.02	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	4.29	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.69	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/24/2012	1042	10.76	2,700	270	19.73	7.30	20	1.67	3.3	106	Clear-No odor
4/24/2012	1055	10.8	5,400	270	19.84	7.33	21.24	1.71	1.2	96.2	Clear-No odor
4/24/2012	1107	10.80	8,100	270	19.79	7.35	21.72	1.78	0.0	92.6	Clear-No odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	HNO_3	N	6010B / 7470A	TAL Metals (Total)
Sample Time					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals (Dissolved)
1120					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
Sample Identification											
MW08-06											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-07	Date: 4/25/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	YSI	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	10.83	Casing: Type PVC	Diam. (in) 2.00	Weather: 70° Partly Cloudy-Calm
	(B) Total Well Depth (ft BTOC):	16.84	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	6.01	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.96	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/25/2012	0835	10.90	3,800	380	21.6	6.57	4.3	9.92	0.52	81	Clear-Slight fuel and organic odor
4/25/2012	0845	10.92	7,600	380	21.14	6.56	4.15	9.98	0.00	75.4	Clear-Slight fuel and organic odor
4/25/2012	0900	10.92	11,400	380	21.15	6.56	4.15	10.72	0.00	70.9	Clear-Slight fuel and organic odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	HNO_3	N	6010B / 7470A	TAL Metals- Total
Sample Time					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
915					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
Sample Identification											
MW-08-07											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-08	Date: 4/24/2012
	Project Name:	SD-08 Quarterly Groundwater Sampling	Project No./Phase:	10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type:	(Geopump) Peristaltic	Water Quality Meter:	YSI	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" outer-diameter Poly.	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	9.99	Casing: Type PVC	Diam. (in) 2.00	Weather: 82° Clear-Calm
	(B) Total Well Depth (ft BTOC):	16.05	(E) Casing Volume Multiplier (gal/lin ft):		Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	6.06	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.97	Screen Info: Type:	Size:	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/24/2012	1154	10.02	3,800	380	20.24	6.82	28.7	1.37	0.18	106	Clear-No odor
4/24/2012	1204	10.04	7,600	380	20.5	6.89	29.93	1.27	0.02	102.1	Clear-No odor
4/24/2012	1214	10.06	11,400	380	20.62	6.92	30.68	1.24	0.00	89.6	Clear-No odor

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	HNO_3	N	6010B / 7470A	TAL Metals- Total
Sample Time					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
1230					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
Sample Identification											
MW-08-08											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: SD-08	Location ID: S10-MW01	Date: 4/25/2012
	Project Name: SD-08 Quarterly Groundwater Sampling	Project No./Phase: 10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type: (Geopump) Peristaltic	Water Quality Meter: YSI	PID Type/ID#: NA
	Water Level Indicator Type: Solinst	Other Equipment: Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in): 1/4" outer-diameter Poly.	Other Equipment:	PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC): 13.13	Casing: Type PVC Diam. (in) 2.00	Weather: 93F - Calm-Partly Cloudy
	(B) Total Well Depth (ft BTOC): 21.65	(E) Casing Volume Multiplier (gal/lin ft):	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A): 8.52	Screen Length (lin ft):	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E): 1.36	Screen Info: Type: Size:	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/25/2012	1413	13.20	5,300	530	20.54	6.92	13.8	2.66	1.6	65	No odor-No sheen
4/25/2012	1426	13.22	10,600	530	20.23	6.91	13.29	2.52	2.7	72.4	No odor-No sheen
4/25/2012	1435	13.22	15,900	530	20.21	6.93	12.70	2.69	0.5	77.1	No odor-No sheen

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	HNO_3	N	6010B / 7470A	TAL Metals- Total
Sample Time					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
1500					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
Sample Identification					1	1 L	Poly	None	N	300 / 9056	General chemistry; chloride, sulfate, fluoride, and nitrate-nitrite
S10-MW01/MS/MSD											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: SD-08	Location ID: SWMU183-MW03	Date: 4/25/2012
	Project Name: SD-08 Quarterly Groundwater Sampling	Project No./Phase: 10-0004	Recorded By: WB/BP
EQUIPMENT	Pump Type: (Geopump) Peristaltic	Water Quality Meter: YSI	PID Type/ID#: NA
	Water Level Indicator Type: Solinst	Other Equipment: Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in): 1/4" outer-diameter Poly.	Other Equipment:	PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC): 11.68	Casing: Type PVC Diam. (in) 1.00	Weather: 93F - Calm-Partly Cloudy
	(B) Total Well Depth (ft BTOC): 15.92	(E) Casing Volume Multiplier (gal/lin ft):	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A): 4.24	Screen Length (lin ft):	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E): 0.68	Screen Info: Type: Size:	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/25/2012	1253	11.70	2,000	200	22	7.30	6.709	3.48	4.7	-2.4	No odor-No sheen
4/25/2012	1300	11.70	3,000	200	22.17	7.48	6.542	3.41	0.7	-7.7	No odor-No sheen
4/25/2012	1303	11.70	4,000	200	22.03	7.52	6.47	3.27	0.5	-18.3	No odor-No sheen
4/25/2012	1310	11.72	5,000	200	22	7.54	6.423	3.35	0.1	-21.4	No odor-No sheen

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	250 ml	Poly	HNO_3	N	6010B / 7470A	TAL Metals- Total
Sample Time					1	500 ml	Poly	None	N	USEPA SM19 2540C	TDS
1330					1	250 ml	Poly	HNO_3	Y	6010B / 7470A	TAL Metals-Dissolved
Sample Identification					1	1 L	Poly	None	N	300 / 9056	General chemistry; chloride, sulfate, fluoride, and nitrate-nitrite
SWMU183-MW03											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

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Quarter 3 MW Sample Collection Forms (Jul 2012, NationView)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-01	Date: 7/23/2012
	Project Name:	Quarterly GW Sampling-Q3 July 2012	Project No./Phase:	10-0004	Recorded By: Z. Beck
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	13.98	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	19.51	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	5.53	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.88	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/23/2012	1250	13.98	0	500	29.45	4.49	0.00	11.42	74.5	132	Slight hydrocarbon odor -clear
7/23/2012	1257	14.27	3,500	500	28.37	4.24	0.00	7.75	66.5	143	Slight hydrocarbon odor -clear
7/23/2012	1304	14.24	7,000	500	26.62	4.11	0.00	7.19	63.9	149	Slight hydrocarbon odor -clear
7/23/2012	1311	14.26	10,500	500	26.49	4.08	0.00	6.79	78.4	151	Slight hydrocarbon odor -clear
7/23/2012	1318	14.27	14,000	500	26.38	4.07	0.00	6.46	82.8	151	Slight hydrocarbon odor -clear
7/23/2012	1325	14.27	17,500	500	26.49	4.07	0.00	6.40	81.9	153	Slight hydrocarbon odor -clear

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1330					1	250 ml	Plastic	HNO3	N	6010	Metals-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-01											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-02	Date: 7/23/2012
	Project Name:	Quarterly GW Sampling-Q3 July 2012	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.72	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	18.80	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	4.08	Screen Length (lin ft):	15.00	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.65	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/23/2012	1535	14.72	2,460	500	29.42	6.61	3.40	6.03	6.1	-67	Clear- Mild odor
7/23/2012	1540	14.97	4,920	500	29.58	6.51	3.25	5.35	6.3	-68	
7/23/2012	1545	15.02	7,380	500	29.08	6.48	3.22	5.08	6.7	-58	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1550					1	250 ml	Plastic	HNO3	N	6010	Metals-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-02											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: SD-08	Location ID: MW-08-03	Date: 7/23/2012
	Project Name: Quarterly GW Sampling-Q3 July 2012	Project No./Phase: 10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type: Geopump (Peristaltic)	Water Quality Meter: Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type: Solinst	Other Equipment: Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in): 1/4" OD Poly	Other Equipment:	PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC): 13.89	Casing: Type PVC Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC): 23.25	(E) Casing Volume Multiplier (gal/lin ft): 0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A): 9.36	Screen Length (lin ft): 15.00	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E): 1.50	Screen Info: Type: Factory Slot Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/23/2012	1415	13.89	5,700	500	32.25	6.82	25.6	0.16	0.0	119	Clear
7/23/2012	1425	14.42	11,400	500	27.06	7.11	13.8	0.00	0.0	107	
7/23/2012	1435	14.51	17,100	500	26.73	7.05	14.1	0.00	0.0	102	
7/23/2012	1445	14.60	22,800	500	26.49	7.04	15.1	0.00	0.0	98	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1450					1	250 ml	Plastic	HNO3	N	6010	Metals-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-03											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-04	Date: 7/23/2012
	Project Name:	Quarterly GW Sampling-Q3 July 2012	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.62	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	17.90	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	6.28	Screen Length (lin ft):	15.00	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.00	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/23/2012	1250	11.62	3,800	380	21.36	7.17	5.68	1.35	1.1	92	Clear
7/23/2012	1300	11.91	7,600	380	21.23	7.19	5.85	1.43	0.90	90	
7/23/2012	1310	12.20	11,400	380	21.40	7.14	5.74	1.61	0.52	94	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time

1315

Sample Identification

MW-08-04

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Metals-Total
1	250 ml	Plastic	None	N	2540	TDS

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-05	Date: 7/24/2012
	Project Name:	Quarterly GW Sampling-Q3 July 2012	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	12.68	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	18.91	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	6.23	Screen Length (lin ft):	15.00	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.00	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/24/2012	0925	12.68	3,790	500	20.58	7.20	3.15	0.23	10.5	-43	Roots/Debris
7/24/2012	0935	12.91	7,580	500	20.31	6.82	2.73	0.62	6.49	46	
7/24/2012	0945	13.15	11,370	500	20.26	6.86	2.73	0.64	5.91	68	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
950

Sample Identification
MW-08-05

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Metals-Total
1	250 ml	Plastic	None	N	2540	TDS

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: SD-08	Location ID: MW-08-06	Date: 7/23/2012
	Project Name: Quarterly GW Sampling-Q3 July 2012	Project No./Phase: 10-0004	Recorded By: Z. Beck
EQUIPMENT	Pump Type: Geopump (Peristaltic)	Water Quality Meter: Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type: Solinst	Other Equipment: Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in): 1/4" OD Poly	Other Equipment:	PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	Casing: Type PVC Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	(E) Casing Volume Multiplier (gal/lin ft): 0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	Screen Length (lin ft): 15.00	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	Screen Info: Type: Factory Slot Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/23/2012	1105	11.48	0	500	24.89	4.52	0.00	9.67	2.29	170	Clear
7/23/2012	1110	11.51	2,500	500	24.25	4.01	0.00	9.74	1.45	155	
7/23/2012	1115	11.57	5,000	500	23.44	3.87	0.00	10.10	0.83	148	
7/23/2012	1120	11.57	7,500	500	23.26	3.87	0.00	9.93	0.65	159	
7/23/2012	1125	11.57	10,000	500	23.30	3.86	0.00	9.72	0.42	164	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1140
Sample Identification
MW-08-06, MW-08-06-MS, & MW-08-06-MSD

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Metals-Total
1	250 ml	Plastic	None	N	2540	TDS

Conversions	**Stabilization Criteria**			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-07	Date: 7/23/2012
	Project Name:	Quarterly GW Sampling-Q3 July 2012	Project No./Phase:	10-0004	Recorded By: Z. Beck
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.37	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	16.84	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	5.47	Screen Length (lin ft):	15.00	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.88	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/23/2012	1422	11.42	0	500	26.12	6.65	0.007	10.67	115	105	Clear
7/23/2012	1429	11.42	3,500	500	25.62	6.47	0.009	10.02	90.3	119	Clear
7/23/2012	1436	11.42	7,000	500	25.65	6.55	0.010	9.66	85.2	123	Clear
7/23/2012	1443	11.43	10,500	500	24.44	6.35	0.010	9.18	80.3	129	Clear
7/23/2012	1450	11.42	14,000	500	24.94	6.34	0.007	6.83	86.4	126	Clear
7/23/2012	1457	11.42	17,500	500	24.88	6.34	0.007	7.11	97.7	122	Clear

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1515

Sample Identification
MW-08-07 & MW-08-07-A

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Metals-Total
1	250 ml	Plastic	None	N	2540	TDS

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-08	Date: 7/24/2012
	Project Name:	Quarterly GW Sampling-Q3 July 2012	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	10.74	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	17.90	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.16	Screen Length (lin ft):	15.00	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.15	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/24/2012	0805	11.01	4,360	500	20.53	6.88	36.6	0.58	237.0	61	Black discoloration
7/24/2012	0815	11.84	8,720	500	20.37	6.76	36.8	0.08	47.4	40	Sewage Odor (Organic)
7/24/2012	0825	12.20	13,080	500	20.27	6.76	36.8	0.00	15.2	30	
7/24/2012	0835	12.41	17,440	500	20.23	6.77	36.8	0.00	13.0	27	
7/24/2012	0845	12.63	21,800	500	20.25	6.77	36.7	0.00	12.4	28	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
850					1	250 ml	Plastic	HNO3	N	6010	Metals-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-08											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	S10-MW01	Date: 7/24/2012
	Project Name:	Quarterly GW Sampling-Q3 July 2012	Project No./Phase:	10-0004	Recorded By: Z. Beck
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	13.74	Casing: Type PVC	Diam. (in) 2.00	Weather: Partly Cloudy
	(B) Total Well Depth (ft BTOC):	21.65	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.91	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.26	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/24/2012	0800	13.93	0	500	21.03	7.43	21.1	2.23	10.1	161	Clear
7/24/2012	0810	14.03	5,000	500	20.37	7.48	21.3	0.00	2.6	168	Clear
7/24/2012	0820	14.06	10,000	500	20.69	7.39	18.7	0.00	2.0	-22	Clear
7/24/2012	0830	14.06	15,000	500	20.56	7.38	18.0	0.00	1.9	-21	Clear
7/24/2012	0840	14.08	20,000	500	20.74	7.38	18.5	0.00	1.9	-21	Clear

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
900					1	250 ml	Plastic	HNO3	N	6010	Metals-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
S10-MW01											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	S10-MW06	Date: 7/24/2012
	Project Name:	Quarterly GW Sampling-Q3 July 2012	Project No./Phase:	10-0004	Recorded By: Z. Beck
EQUIPMENT	Pump Type:	Bailer	Water Quality Meter:	N/A	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:		Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	N/A	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	10.79	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	21.98	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	11.19	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.79	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
											Due to access issues the well was bailed. Therefore, no parameters were collected. Approximately 2 gallons (a little over 1 well volume) was purged prior to sampling. No odor/ Clear

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
Sample Time											
1115											
Sample Identification											
S10-MW06											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	SWMU183-MW03	Date: 7/24/2012
	Project Name:	Quarterly GW Sampling-Q3 July 2012	Project No./Phase:	10-0004	Recorded By: Z. Beck
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	12.07	Casing: Type PVC	Diam. (in) 1.00	Weather:
	(B) Total Well Depth (ft BTOC):	15.92	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	3.85	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.15	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/24/2012	0932	13.57	0	250	22.75	7.40	8.56	1.37	3.3	-21	Clear
7/24/2012	0936	14.33	1,000	250	22.48	7.39	7.18	0.92	1.5	-22	Clear
7/24/2012	0940	14.96	2,000	250	22.06	7.40	6.77	0.00	1.7	159	Clear
7/24/2012	0944	15.43	3,000	250	22.06	7.45	6.55	0.00	0.0	158	Clear
7/24/2012	0948	15.46	4,000	250	22.2	7.46	6.52	0.00	0.0	162	Clear
7/24/2012	0952	15.43	5,000	250	22.24	7.45	6.55	0.00	0.0	162	Clear

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1015					1	250 ml	Plastic	HNO3	N	6010	Metals-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
SWMU183-MW03											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

C-5

Quarter 4 MW Sample Collection Forms (Oct 2012, NationView)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-01	Date: 10/23/2012
	Project Name:	Performance Monitoring	Project No./Phase:	10-0004	Recorded By: B. Wolfe
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.20	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, light wind, 85 degrees
	(B) Total Well Depth (ft BTOC):	19.35	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	5.15	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.82	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
10/23/2012	1140	14.37	1,000	500	24.60	5.89	64.01	1.80	25.97	-20	Removed approx 1 L prior to field
10/23/2012	1145	14.39	3,500	500	24.52	6.76	70.93	1.95	18.10	-36	measurment.
10/23/2012	1150	14.37	6,000	500	24.64	6.74	20.69	1.90	16.10	-34	Clear
10/23/2012	1155	14.37	8,500	500	24.73	6.75	9.58	1.91	14.05	-39	
10/23/2012	1200	14.37	11,000	500	25.21	6.70	9.50	1.88	13.12	-38	
10/23/2012	1205	14.37	13,500	500	25.30	6.71	9.46	1.70	11.10	-37	
10/23/2012	1210	14.37	16,000	500	25.48	6.69	9.49	1.32	6.18	-37	
10/23/2012	1215	14.36	18,500	500	25.43	6.69	9.43	1.31	3.08	-37	
10/23/2012	1220	14.37	21,000	500	25.41	6.70	9.45	1.30	4.10	-37	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1220					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-01											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-02	Date: 10/23/2012
	Project Name:	Performance Monitoring	Project No./Phase:	10-0004	Recorded By: B. Wolfe
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.92	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, light wind, 72 degrees
	(B) Total Well Depth (ft BTOC):	18.55	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	3.63	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.58	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
10/23/2012	0940	14.56	500	500	21.60	6.91	3.55	1.17	22.47	-36	Purged 0.5 L prior to field measurment
10/23/2012	0945	14.42	3,000	500	21.80	6.90	3.40	0.90	10.70	-34	
10/23/2012	0950	14.38	5,500	500	22.30	6.92	3.41	0.54	8.97	-33	
10/23/2012	0955	14.35	8,000	500	22.60	6.93	3.42	0.47	6.90	-30	Clear
10/23/2012	1000	14.33	10,500	500	22.55	6.93	3.43	0.30	3.58	-30	
10/23/2012	1005	14.34	13,000	500	22.56	6.93	3.43	0.29	3.50	-29	
10/23/2012	1010	14.35	15,500	500	22.70	6.90	3.43	0.30	2.97	-27	
10/23/2012	1015	14.36	18,000	500	22.83	6.90	3.44	0.33	3.10	-25	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1020
Sample Identification
MW-08-02

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-03	Date: 10/23/2012
	Project Name:	Performance Monitoring	Project No./Phase:	10-0004	Recorded By: B. Wolfe
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.15	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, 68 degrees
	(B) Total Well Depth (ft BTOC):	23.10	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.95	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.43	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
10/23/2012	0800	14.25	500	500	19.20	7.05	0.039	9.72	140	134	Slightly cloudy
10/23/2012	0805	14.39	3,000	500	19.21	7.07	0.039	9.21	110	135	clearing
10/23/2012	0810	14.39	5,500	500	19.20	7.05	0.037	9.18	50.1	130	
10/23/2012	0815	14.38	8,000	500	19.18	7.09	0.037	9.19	10.91	129	clear
10/23/2012	0820	14.35	10,500	500	19.20	7.05	0.037	9.10	6.08	128	
10/23/2012	0825	14.34	13,000	500	19.21	7.04	0.037	9.08	4.90	129	
10/23/2012	0830	14.35	15,500	500	19.20	7.02	0.039	9.11	3.52	128	
10/23/2012	0835	14.36	18,000	500	19.22	7.05	0.037	9.10	3.87	127	
10/23/2012	0840	14.35	20,500	500	19.20	7.04	0.037	9.10	3.50	128	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
840					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-03											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-04	Date: 10/23/2012
	Project Name:	Performance Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	12.22	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	17.89	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	5.67	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.90	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
10/23/2012	1045	13.82	3,411	500	20.15	7.32	5.97	1.79	1.09	100	Clear, no odor
10/23/2012	1052	15.73	6,822	500	20.30	7.22	5.73	1.67	1.38	93	
10/23/2012	1059	16.42	10,233	500	20.42	7.09	5.74	1.65	1.28	105	
10/23/2012	1106	16.34	13,644	500	20.40	7.10	5.73	1.65	0.43	110	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1110					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-04											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-05	Date: 10/23/2012
	Project Name:	Performance Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	12.83	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	18.88	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	6.05	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.97	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
10/23/2012	1145	13.07	3,676	500	21.24	6.85	2.85	0.83	2.32	94	Clear, no odor
10/23/2012	1152	13.08	7,352	500	21.13	6.80	2.71	0.22	0.84	92	plant material (roots?)
10/23/2012	1159	13.10	11,028	500	21.11	6.81	2.72	0.24	1.44	102	
10/23/2012	1206	13.13	14,704	500	21.12	6.81	2.73	0.22	0.64	106	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1210					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-05											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-06	Date: 10/23/2012
	Project Name:	Performance Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.58	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	15.03	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	3.45	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.55	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
10/23/2012	0920	11.80	2,085	500	20.35	7.46	20.4	0.06	3.53	121	Clear, no odor
10/23/2012	0924	11.82	4,170	500	20.29	7.44	21.0	0.04	3.50	114	
10/23/2012	0928	11.81	6,255	500	20.30	7.42	21.6	0.02	3.27	106	
10/23/2012	0932	11.82	8,340	500	20.30	7.42	21.0	0.02	1.09	101	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
0940					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-06 / MW-08-06-MS / MW-08-06-MSD											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-07	Date: 10/23/2012
	Project Name:	Performance Monitoring	Project No./Phase:	10-0004	Recorded By: B. Wolfe
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.56	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	16.40	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	4.84	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.77	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
10/23/2012	1335	11.59	1,000	500	26.61	6.98	4.92	0.85	1.19	73	Purged approx. 1 L prior to field
10/23/2012	1400	11.59	3,500	500	26.20	6.90	4.90	0.47	1.30	72	measurement
10/23/2012	1405	11.59	6,000	500	26.08	6.85	4.89	0.44	2.10	72	
10/23/2012	1410	11.59	8,500	500	26.04	6.82	4.88	0.38	2.69	72	
10/23/2012	1415	11.59	11,000	500	25.92	6.81	4.88	0.29	3.01	73	
10/23/2012	1420	11.59	13,500	500	25.85	6.80	4.87	0.21	1.18	74	
10/23/2012	1425	11.59	16,000	500	25.84	6.80	4.84	0.19	1.01	73	
10/23/2012	1430	11.59	18,500	500	25.78	6.81	4.85	0.18	1.40	72	
10/23/2012	1435	11.59	21,000	500	25.75	6.81	4.84	0.18	1.13	72	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1440					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-07 / MW-08-07-A											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-08	Date: 10/22/2012
	Project Name:	Performance Monitoring	Project No./Phase:	10-0004	Recorded By: B. Wolfe
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	10.93	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, light wind, 78 degrees
	(B) Total Well Depth (ft BTOC):	15.85	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	4.92	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.79	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
10/22/2012	1555	11.39	1,000	500	22.50	6.85	35.3	1.19	1.08	126	Purged approx. 1 L prior to field
10/22/2012	1600	11.51	3,500	500	22.38	6.88	35.2	0.90	0.87	127	measurement
10/22/2012	1605	11.58	6,000	500	22.38	6.89	35.1	0.52	0.76	123	clear
10/22/2012	1610	11.62	8,500	500	22.33	6.91	35.5	0.49	0.76	121	clear
10/22/2012	1615	11.60	11,000	500	22.32	6.90	35.3	0.51	0.76	120	clear
10/22/2012	1620	11.61	13,500	500	22.28	6.93	35.2	0.50	0.70	122	clear
10/22/2012	1625	11.66	16,000	500	22.27	6.93	35.2	0.49	0.74	122	clear
10/22/2012	1630	11.67	18,500	500	22.26	6.94	35.2	0.51	0.76	122	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1630					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-08											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	S10-MW01	Date: 10/24/2012
	Project Name:	Performance Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	13.93	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	21.60	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.67	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.23	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
10/24/2012	0755	14.14	4,662	500	18.88	7.13	20.8	0.09	2.90	179	
10/24/2012	0804	14.18	9,324	500	19.15	7.09	19.5	0.06	1.21	161	
10/24/2012	0813	14.21	13,986	500	19.24	7.09	18.7	0.06	0.65	143	
10/24/2012	0822	14.23	18,648	500	19.30	7.10	18.7	0.05	0.65	128	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
0830
Sample Identification
S10-MW01 / S10-MW01-A

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	S10-MW06	Date: 10/23/2012
	Project Name:	Performance Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.02	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	22.09	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	11.07	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.77	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
10/23/2012	0815	11.32	6,708	500	19.68	7.20	16.2	0.08	4.40	119	Clear, no odor
10/23/2012	0829	11.32	13,416	500	19.92	7.17	16.1	0.00	4.74	101	
10/23/2012	0842	11.36	20,124	500	20.04	7.16	16.10	0.00	7.35	89	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
0845					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
S10-MW06											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	SWMU183-MW03	Date: 10/23/2012
	Project Name:	Performance Monitoring	Project No./Phase:	10-0004	Recorded By: B. Wolfe
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Lamotte Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	12.20	Casing: Type PVC	Diam. (in) 1.00	Weather: Partly cloudy, light wind, 82 degrees
	(B) Total Well Depth (ft BTOC):	16.10	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	3.90	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.16	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
10/23/2012	1630	12.68	500	500	24.25	7.18	7.17	0.74	3.21	109	Purged approx. 0.5 L prior to field
10/23/2012	1635	12.72	3,000	500	24.20	7.19	7.01	0.47	3.01	107	measurement
10/23/2012	1640	12.73	5,500	500	23.90	7.31	6.86	0.28	2.45	100	clear
10/23/2012	1645	12.73	8,000	500	23.80	7.44	6.80	0.20	1.80	93	
10/23/2012	1650	12.74	10,500	500	23.53	7.57	6.85	0.13	1.04	84	
10/23/2012	1655	12.73	13,000	500	23.51	7.63	6.83	0.14	0.90	83	
10/23/2012	1700	12.73	15,500	500	23.31	7.68	6.83	0.15	1.01	83	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1705					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
SWMU183-MW03											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

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Quarter 5 MW Sample Collection Forms (Jan 2013, NationView)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-01	Date: 1/22/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: Z. Beck
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.41	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	21.65	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.24	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.16	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/22/2013	0952	14.41	0	500	16.58	6.06	11.1	0.00	4.65	-25	Clear - Odor present
1/22/2013	1001	14.65	4,500	500	20.46	5.85	10.3	0.00	3.09	-66	Clear - Odor present
1/22/2013	1010	14.65	9,000	500	20.58	5.86	10.4	0.00	2.40	-71	Clear - Odor present
1/22/2013	1019	14.66	13,500	500	20.89	5.87	10.3	0.00	1.57	-75	Clear - Odor present
1/22/2013	1028	14.66	18,000	500	20.36	5.87	10.4	0.00	2.91	-40	Clear - Odor present

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1100					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-01											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-02	Date: 1/22/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: T. Lucero / D. McNeil
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	15.16	Casing: Type PVC	Diam. (in) 2.00	Weather: Partly Cloudy, ~40°F
	(B) Total Well Depth (ft BTOC):	18.76	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	3.60	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.58	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/22/2013	0945	15.36	2,200	250	21.19	6.39	3.52	6.83	4.77	29	Clear, No odor
1/22/2013	0954	15.38	4,400	250	21.30	6.42	3.53	5.90	1.63	18	Clear, No odor
1/22/2013	1003	15.40	6,600	250	21.59	6.46	3.54	5.02	0.65	12	Clear, No odor
1/22/2013	1012	15.41	8,800	250	21.71	6.51	3.54	3.32	0.35	5	Clear, No odor
1/22/2013	1021	15.42	11,000	250	21.71	6.54	3.54	3.27	0.31	4	Clear, No odor
1/22/2013	1030	15.42	13,200	250	21.74	6.55	3.54	3.18	0.26	2	Clear, No odor

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1045
Sample Identification
MW-08-02

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-03	Date: 1/21/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: T. Lucero / D. McNeil
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.25	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, ~50°F
	(B) Total Well Depth (ft BTOC):	23.30	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	9.05	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.45	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/21/2013	1525	14.82	5,500	500	21.84	7.09	18.3	0.59	3.47	143	Clear, No odor
1/21/2013	1536	14.98	11,000	500	21.80	7.02	16.0	0.30	1.97	106	Clear, No odor
1/21/2013	1547	15.03	16,500	500	21.81	7.05	16.7	0.24	1.61	122	Clear, No odor
1/21/2013	1558	15.06	22,000	500	21.82	7.05	16.9	0.24	1.14	124	Clear, No odor
1/21/2013	1609	15.07	27,500	500	21.82	7.07	17.0	0.22	0.99	125	Clear, No odor

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1615

Sample Identification
MW-08-03

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-04	Date: 1/21/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: T. Lucero / D. McNeil
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	12.21	Casing: Type PVC	Diam. (in) 2.00	Weather: Partly Cloudy, ~40°F
	(B) Total Well Depth (ft BTOC):	17.90	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	5.69	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.91	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/21/2013	1040	15.14	3,450	300	19.02	7.12	6.01	3.32	1.09	81	Clear, No odor
1/21/2013	1052	16.50	6,900	300	18.75	7.08	6.01	9.15	0.87	111	Clear, No odor
1/21/2013	1103	16.81	10,350	300	18.68	7.07	5.98	9.06	0.83	114	Clear, No odor
1/21/2013	1114	16.81	13,800	300	18.70	7.08	5.90	9.08	0.85	110	Clear, No odor

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1120

Sample Identification
MW-08-04

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-05	Date: 1/21/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: T. Lucero / D. McNeil
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	12.90	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, ~50°F
	(B) Total Well Depth (ft BTOC):	18.88	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	5.98	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.96	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/21/2013	1201	13.16	3,650	250	20.15	6.60	2.92	0.47	4.64	77	Clear, No odor
1/21/2013	1216	13.21	7,300	250	20.15	6.69	2.92	0.59	0.66	84	Clear, No odor
1/21/2013	1231	13.20	10,950	250	20.20	6.72	2.91	0.66	0.46	95	Clear, No odor
1/21/2013	1246	13.21	11,300	250	20.29	6.72	2.92	0.69	0.29	92	Clear, No odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1255					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-05											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-06	Date: 1/21/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: Z. Beck
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.55	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	15.02	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	3.47	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.56	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/21/2013	1350	11.66	2,250	250	19.48	7.23	24.5	0.00	4.46	139	
1/21/2013	1359	11.69	4,500	250	19.44	7.28	24.7	0.00	1.24	138	
1/21/2013	1408	11.70	6,750	250	19.45	7.29	24.6	0.00	0.72	137	
1/21/2013	1417	11.70	9,000	250	19.51	7.31	24.3	0.00	0.89	137	
1/21/2013	1426	11.70	11,250	250	19.63	7.28	24.2	0.00	0.61	139	
1/21/2013	1435	11.70	13,500	250	19.65	7.27	24.2	0.00	0.52	141	

Colorimeter Results				
Time	**Analyte**	**Dilution**	**Result**	**Units**
Sample Time				
1500				
Sample Identification				
MW-08-06 / MW-08-06-MS / MW-08-06-MSD				

Conversions	**Stabilization Criteria**			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-07	Date: 1/22/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: T. Lucero / D. McNeil
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.76	Casing: Type PVC	Diam. (in) 2.00	Weather: Partly Cloudy, ~35°F
	(B) Total Well Depth (ft BTOC):	16.39	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	4.63	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.74	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/22/2013	0816	11.80	2,800	250	19.84	6.49	5.42	0.77	3.67	73	Clear, No odor
1/22/2013	0827	11.80	5,600	250	20.29	6.51	5.26	0.44	1.12	71	Clear, No odor
1/22/2013	0838	11.80	8,400	250	20.89	6.76	5.18	0.29	0.42	54	Clear, No odor
1/22/2013	0849	11.81	11,200	250	21.01	6.75	5.15	0.24	0.30	55	Clear, No odor
1/22/2013	0900	11.81	14,000	250	21.09	6.76	5.13	0.20	0.34	55	Clear, No odor

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
910

Sample Identification
MW-08-07 / MW-08-07-A

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-08	Date: 1/21/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: Z. Beck
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.03	Casing: Type PVC	Diam. (in) 2.00	Weather: Sunny - Cool
	(B) Total Well Depth (ft BTOC):	16.05	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	5.02	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.80	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/21/2013	1045	11.33	3,000	500	18.75	6.83	36.7	0.00	0.90	203	Clear- No odor
1/21/2013	1051	11.49	6,000	500	19.03	6.71	35.7	0.00	0.20	179	Clear- No odor
1/21/2013	1057	11.61	9,000	500	19.15	6.71	35.2	0.00	0.00	182	Clear- No odor
1/21/2013	1103	11.69	12,000	500	19.19	6.72	35.2	0.00	0.00	182	Clear- No odor
1/21/2013	1109	11.75	15,000	500	19.27	6.72	35.4	0.00	0.00	182	Clear- No odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1115					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-08											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	S10-MW01	Date: 1/22/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: Z. Beck
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	13.89	Casing: Type PVC	Diam. (in) 1.00	Weather: Sunny - Cool
	(B) Total Well Depth (ft BTOC):	21.65	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.56	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.37	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/22/2013	0814	13.89	0	500	14.00	6.82	19.4	0.00	6.25	171	
1/22/2013	0824	14.18	5,000	500	16.25	6.63	16.0	0.00	10.5	178	
1/22/2013	0834	14.21	10,000	500	16.45	6.65	13.9	0.00	8.40	171	
1/22/2013	0844	14.21	15,000	500	16.81	6.66	13.4	0.00	5.50	180	
1/22/2013	0854	14.22	20,000	500	17.11	6.65	13.4	0.00	3.70	187	
1/22/2013	0904	14.22	25,000	500	16.98	6.66	13.3	0.00	2.40	189	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
0915					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
S10-MW01 / S10-MW01-A											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	S10-MW06	Date: 1/21/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: T. Lucero / D. McNeil
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.11	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, ~50°F
	(B) Total Well Depth (ft BTOC):	22.16	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	11.05	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.77	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/21/2013	1350	11.50	6,700	500	20.12	7.03	16.4	1.69	10.8	146	Clear, No odor
1/21/2013	1403	11.51	13,400	500	20.07	7.04	16.6	1.07	7.50	141	Clear, No odor
1/21/2013	1416	11.51	20,100	500	20.08	7.06	16.7	0.58	6.64	142	Clear, No odor
1/21/2013	1429	11.52	26,800	500	20.09	7.07	16.7	0.33	4.19	144	Clear, No odor
1/21/2013	1442	11.51	33,500	500	20.07	7.06	16.6	0.34	2.82	144	Clear, No odor
1/21/2013	1455	11.52	40,200	500	20.08	7.07	16.7	0.31	2.14	145	Clear, No odor

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1500
Sample Identification
S10-MW06

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

Conversions	**Stabilization Criteria**			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	SWMU183-MW03	Date: 1/21/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: Z. Beck
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	12.46	Casing: Type PVC	Diam. (in) 1.00	Weather: Sunny - Cool
	(B) Total Well Depth (ft BTOC):	15.92	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	3.46	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.14	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
1/21/2013	1214	13.63	1,000	250	19.35	6.94	9.12	0.00	21.6	4	Clear
1/21/2013	1218	14.21	2,000	250	19.57	7.01	8.22	0.00	4.83	20	Clear
1/21/2013	1222	14.38	3,000	250	19.77	7.04	7.98	0.00	3.58	31	Clear
1/21/2013	1226	14.54	4,000	250	19.96	7.11	7.80	0.00	2.59	46	Clear
1/21/2013	1230	14.63	5,000	250	20.05	7.18	7.71	0.00	2.18	57	Clear
1/21/2013	1234	14.71	6,000	250	20.02	7.25	7.65	0.00	1.36	65	Clear
1/21/2013	1238	14.74	7,000	250	20.06	7.30	7.62	0.00	1.40	69	Clear
1/21/2013	1242	14.77	8,000	250	20.10	7.32	7.60	0.00	0.90	73	Clear

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1245

Sample Identification
SWMU183-MW03

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	CL/NO2/NO3/FL/SO4
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

C-7

Quarter 6 MW Sample Collection Forms (Apr 2013, NationView)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-01	Date: 4/8/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: R. Pochel
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.51	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear- Windy
	(B) Total Well Depth (ft BTOC):	21.65	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.14	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.14	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/8/2013	1320	14.50	1,000	250	23.27	6.85	9.50	4.24	55.8	-1	Odor, clear
4/8/2013	1325	14.50	2,250	250	24.74	6.80	9.35	2.61	34.3	-8	
4/8/2013	1330	14.50	3,500	250	24.82	6.78	9.42	2.25	26.2	-8	
4/8/2013	1335	14.50	4,750	250	24.30	6.73	9.47	1.50	11.3	-10	
4/8/2013	1340	14.50	6,000	250	24.30	6.71	9.48	1.16	7.62	-11	
4/8/2013	1345	14.50	7,250	250	23.34	6.70	9.50	1.02	5.73	-14	
4/8/2013	1350	14.50	8,500	250	23.34	6.69	9.50	1.00	3.46	-14	
4/8/2013	1355	14.50	9,750	250	23.35	6.69	9.50	0.98	2.80	-14	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1400					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-01 & MW-08-01-A											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-02	Date: 4/8/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: R. Pochel / T. Lucero
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	15.02	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, Windy, 73 F
	(B) Total Well Depth (ft BTOC):	18.76	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	3.74	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.59	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/8/2013	1055	15.02	1,000	250	22.56	7.01	3.53	0.93	1.02	39	
4/8/2013	1100	15.02	1,750	250	22.28	6.80	3.57	0.82	0.45	28	
4/8/2013	1105	15.02	2,500	250	22.17	6.77	3.56	0.81	0.52	24	
4/8/2013	1110	15.02	3,250	250	22.18	6.76	3.54	0.78	0.20	22	
4/8/2013	1115	15.02	4,000	250	22.23	6.76	3.53	0.75	0.20	21	
4/8/2013	1120	15.02	4,750	250	22.22	6.76	3.53	0.72	0.31	21	
4/8/2013	1125	15.02	5,500	250	22.22	6.76	3.53	0.71	0.33	22	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1130					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-02 & MW-08-02-A											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-03	Date: 4/8/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: R. Pochel
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.31	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	23.30	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.99	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.44	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/8/2013	1540	14.31	950	200	23.35	7.75	20.1	0.56	1.71	142	Clear
4/8/2013	1545	14.32	1,950	200	22.37	7.39	12.3	0.44	1.12	140	Clear
4/8/2013	1550	14.31	2,950	200	22.58	7.30	16.0	0.44	1.51	130	Clear
4/8/2013	1555	14.31	3,950	200	22.55	7.29	15.7	0.42	1.39	125	Clear
4/8/2013	1600	14.31	4,950	200	22.49	7.29	15.7	0.43	1.27	122	Clear
4/8/2013	1605	14.31	5,950	200	22.66	7.29	15.7	0.43	1.08	120	
4/8/2013	1610	14.31	6,950	200	22.66	7.29	15.8	0.43	1.08	120	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1615					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-03											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-04	Date: 4/8/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: T. Lucero
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	12.30	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear / Windy
	(B) Total Well Depth (ft BTOC):	17.90	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	5.60	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.90	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/8/2013	1300		1,000	250	20.07	7.01	3.2	16.27	11	102.3	
4/8/2013	1305		2,250	250	19.76	6.92	3.22	13.34	7.0	107.7	
4/8/2013	1310		3,500	250	19.68	6.91	3.21	10.89	6.1	111.1	
4/8/2013	1315		4,750	250	19.67	6.91	3.22	10.44	5.4	111.8	
4/8/2013	1320		6,000	250	19.53	6.96	3.21	10.31	3.4	112.4	
4/8/2013	1325		7,250	250	19.53	6.96	3.20	10.30	3.2	112.8	
4/8/2013	1330		8,500	250	19.45	6.96	3.21	10.30	2.8	112.7	
4/8/2013	1335		9,750	250	19.37	6.94	3.15	10.28	1.4	112.8	
4/8/2013	1340		11,000	250	19.38	6.94	3.18	10.28	1.4	112.9	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1345
Sample Identification
MW-08-04

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	Nitrate
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-05	Date: 4/9/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: R. Pochel
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	13.10	Casing: Type PVC	Diam. (in) 2.00	Weather:
	(B) Total Well Depth (ft BTOC):	18.88	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	5.78	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.92	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/9/2013	1015	13.10	950	200	16.9	7.21	3.43	1.23	3.00	113	
4/9/2013	1020	13.10	1,950	200	16.95	7.21	3.43	1.23	3.45	113	
4/9/2013	1025	13.10	2,950	200	16.98	7.22	3.17	1.19	3.16	108	
4/9/2013	1030	13.10	3,950	200	16.97	7.22	3.15	1.21	2.06	108	
4/9/2013	1035	13.10	4,950	200	16.98	7.22	3.15	1.24	1.54	108	
4/9/2013	1040	13.10	5,950	200	16.99	7.22	3.13	1.26	1.22	108	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1045

Sample Identification
MW-08-05

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	Nitrate
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-06	Date: 4/8/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: T. Lucero
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.67	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear / Windy
	(B) Total Well Depth (ft BTOC):	15.02	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	3.35	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.53	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/8/2013	1410	11.67	1,000	250	18.93	7.05	14.80	0.91	6.0	121.4	
4/8/2013	1415		2,250	250	18.86	7.13	14.30	1.22	5.8	117.9	
4/8/2013	1420		3,500	250	18.88	7.13	14.28	1.28	4.9	117.4	
4/8/2013	1425		4,750	250	18.92	7.13	14.27	1.30	3.7	117.1	
4/8/2013	1430		6,000	250	18.91	7.13	14.20	1.37	2.8	117.0	
4/8/2013	1435		7,250	250	18.9	7.13	14.20	1.36	1.9	116.9	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1440

Sample Identification
MW-08-06 / MW-08-06-MS / MW-08-06-MSD

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	Nitrate
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-07	Date: 4/8/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By:
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.79	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, Windy
	(B) Total Well Depth (ft BTOC):	16.39	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	4.60	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.73	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/8/2013	1430	11.79	200	200	24.00	6.75	4.64	1.57	2.34	73	Clear
4/8/2013	1435	11.80	1,750	200	24.01	6.75	4.64	1.55	2.01	74	
4/8/2013	1440	11.79	2,750	200	24.16	6.74	4.63	1.48	1.61	75	
4/8/2013	1445	11.80	3,750	200	24.02	6.74	4.62	2.95	1.31	73	
4/8/2013	1450	11.80	4,750	200	24.09	6.74	4.59	2.94	0.70	73	
4/8/2013	1455	11.79	5,750	200	24.01	6.74	4.64	2.89	0.89	75	
4/8/2013	1500	11.80	6,750	200	24.07	6.74	4.60	2.88	0.88	77	
4/8/2013	1505	11.80	7,750	200	24.13	6.74	4.59	2.90	0.89	79	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1510					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-07											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-08	Date: 4/8/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: T. Lucero
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.12	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, Windy
	(B) Total Well Depth (ft BTOC):	16.05	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	4.93	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.79	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/8/2013	1510	11.12	1,000	250	20.89	6.74	25.46	0.02	8.7	54.9	
4/8/2013	1515	11.14	2,250	250	20.73	6.68	24.21	0.24	2.4	64.2	
4/8/2013	1520	11.19	3,500	250	20.73	6.68	23.81	0.26	2.4	64.9	
4/8/2013	1525	11.21	4,750	250	20.29	6.64	23.67	0.41	1.0	65.8	
4/8/2013	1530	11.21	6,000	250	20.19	6.63	23.64	0.46	1.0	71.2	
4/8/2013	1535	11.21	7,250	250	20.15	6.63	23.60	0.46	0.90	72.0	
4/8/2013	1540	11.21	8,500	250	20.41	6.62	28.75	0.44	0.70	76.0	
4/8/2013	1545	11.21	9,750	250	20.41	6.62	28.55	0.44	0.70	76.0	
4/8/2013	1550	11.21	11,000	250	20.41	6.61	28.65	0.45	0.70	76.0	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1555					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-08											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	S10-MW01	Date: 4/9/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: T. Lucero
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.04	Casing: Type PVC	Diam. (in) 1.00	Weather:
	(B) Total Well Depth (ft BTOC):	21.65	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.61	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.21	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/9/2013	1040	14.04	1,000	500	17.95	6.68	12.80	2.51	12	127.3	
4/9/2013	1045	14.11	3,500	500	18.33	6.61	12.79	2.13	8.9	128.0	
4/9/2013	1050	14.21	6,000	500	18.27	6.62	12.65	1.76	7.4	127.7	
4/9/2013	1055	14.25	8,500	500	18.22	6.64	11.11	1.21	6.4	125.1	
4/9/2013	1100	14.31	11,000	500	18.22	6.68	10.23	0.59	4.9	121.7	
4/9/2013	1105	14.31	13,500	500	18.22	6.68	10.18	0.57	2.3	121.4	
4/9/2013	1110	14.31	16,000	500	18.22	6.68	10.17	0.54	2.1	121.3	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1115

Sample Identification
S10-MW01

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	Nitrate
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	S10-MW02	Date: 4/9/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: R. Pochel
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.90	Casing: Type PVC	Diam. (in) 1.00	Weather: Cloudy, Cool, 51 F
	(B) Total Well Depth (ft BTOC):	16.65	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	1.75	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.28	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/9/2013	0807	15.20	850	100	22.40	7.97	3.07	6.20	4.83	180	Water level low but constant flow.
4/9/2013	0810	15.20	1,150	100	22.18	7.70	3.18	5.77	3.12	189	Water dropping but static
4/9/2013	0815	15.45	1,650	100	21.97	7.62	3.24	5.13	0.79	192	at 15.45 BTOC
4/9/2013	0820	15.45	2,150	100	21.47	7.53	3.38	3.57	0.94	199	
4/9/2013	0825	15.45	2,650	100	21.46	7.52	3.40	3.55	0.82	200	
4/9/2013	0830	15.45	3,150	100	21.45	7.51	3.42	3.54	0.83	200	
4/9/2013	0835	15.45	3,650	100	21.44	7.51	3.40	3.56	0.29	203	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
0835

Sample Identification
S10-MW02

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	Nitrate
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	S10-MW06	Date: 4/9/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: T. Lucero
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.20	Casing: Type PVC	Diam. (in) 2.00	Weather: Overcast, 54 F
	(B) Total Well Depth (ft BTOC):	22.16	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	10.96	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.75	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/9/2013	0915	11.20	1,000	500	17.51	6.50	11.59	1.33	9.6	117.3	
4/9/2013	0925	11.23	6,000	500	17.50	6.50	11.64	1.30	6.7	117.4	
4/9/2013	0935	11.31	11,000	500	17.52	6.53	11.32	0.99	4.2	118.7	
4/9/2013	0945	11.34	16,000	500	17.60	6.53	11.38	0.98	4.0	118.4	
4/9/2013	0955	11.34	21,000	500	17.61	6.54	11.40	0.97	3.9	119.5	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1000					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
S10-MW06											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	SWMU183-MW03	Date: 4/9/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: R. Pochel
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	12.70	Casing: Type PVC	Diam. (in) 1.00	Weather: Cloudy, Cool
	(B) Total Well Depth (ft BTOC):	16.00	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	3.30	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.13	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
4/9/2013	0910	12.70	750	50	18.18	7.35	7.23	6.31	3.1	219	
4/9/2013	0915	14.15	1,000	50	18.08	7.38	7.34	5.94	2.77	218	
4/9/2013	0920	14.10	1,250	50	18.14	7.38	7.29	5.45	1.87	218	
4/9/2013	0925	14.10	1,500	50	18.67	7.40	7.18	5.46	1.80	216	
4/9/2013	0930	14.10	1,750	50	18.40	7.50	7.27	5.44	1.48	190	
4/9/2013	0935	14.10	2,000	50	19.26	7.52	7.20	5.42	1.22	200	
4/9/2013	0940	14.10	2,250	50	19.20	7.55	7.00	5.43	1.38	201	
4/9/2013	0945	14.10	2,500	50	19.21	7.55	7.00	5.45	1.65	203	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
0950					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
SWMU183-MW03											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

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Quarter 7 MW Sample Collection Forms (Jul 2013, NationView)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-01	Date: 7/29/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	13.83	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, Sunny, 71 F
	(B) Total Well Depth (ft BTOC):	19.62	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	5.79	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.93	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/29/2013	0850	14.14	3,525	500	23.49	6.47	6.61	0.56	4.2	-93.5	Slight Fuel Odor
7/29/2013	0858	14.18	7,525	500	23.46	6.50	6.61	0.58	3.4	-102.9	Clear
7/29/2013	0906	14.19	11,525	500	23.42	6.51	6.93	0.60	1.8		

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
0910					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-01											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-02	Date: 7/29/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.34	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, Sunny 78 F
	(B) Total Well Depth (ft BTOC):	18.58	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	4.24	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.68	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/29/2013	0950	14.66	2,577	500	23.96	6.51	2.28	0.09	2.40	-51.8	Clear, no odor
7/29/2013	0956	14.68	5,577	500	23.94	6.55	2.19	0.08	1.20	-52.4	
7/29/2013	1002	14.69	8,577	500	23.91	6.58	2.12	0.08	1.00	-51.9	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1005					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-02											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-03	Date: 7/29/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	13.41	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, sunny, 66 F
	(B) Total Well Depth (ft BTOC):	23.23	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	9.82	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.57	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/29/2013	0748	14.06	5,950	500	22.02	7.17	1.97	1.37	5.7	161.6	Clear, slight fuel odor
7/29/2013	0800	14.15	11,950	500	22.02	7.14	1.89	1.31	5.0	162.1	
7/29/2013	0812	14.28	17,950	500	21.99	7.14	1.86	1.28	4.9	160.6	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
0815					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-03											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-04	Date: 7/23/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.61	Casing: Type PVC	Diam. (in) 2.00	Weather: Partly Cloudy, 74 F
	(B) Total Well Depth (ft BTOC):	17.90	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	6.29	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.01	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/23/2013	0820	16.34	11,484	500	19.62	7.09	2.68	12.79	1.2	280.0	Clear, no odor
7/23/2013	0828	16.62	15,312	500	19.68	7.08	2.68	12.94	1.1	288.7	
7/23/2013	0835	16.94	19,140	500	19.74	7.08	2.68	12.99	1.1	290.5	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
0835					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-04											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-05	Date: 7/27/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	12.45	Casing: Type PVC	Diam. (in) 2.00	Weather: Partly Cloudy, 78 F
	(B) Total Well Depth (ft BTOC):	18.94	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	6.49	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.04	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/23/2013	1006	12.67	3,942	500	21.41	6.59	1.45	4.27	5.5	189.7	Clear, no odor
7/23/2013	1014	12.72	7,942	500	21.31	6.60	1.39	4.31	3.5	217.7	roots
7/23/2013	1022	12.73	11,884	500	21.23	6.62	1.34	4.39	1.3	241.8	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1025					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-05											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-06	Date: 7/22/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.07	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, Sunny
	(B) Total Well Depth (ft BTOC):	14.48	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	3.41	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.55	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/22/2013	1050	11.48	2,085	500	20.32	7.07	28.13	0.91	0.9	281.7	Removed 3 volumes prior to collecting
7/22/2013	1054	11.55	4,170	500	20.28	7.08	28.11	0.90	0.9	282.5	field parameters
7/22/2013	1058	11.63	6,255	500	20.25	7.08	28.11	0.90	0.9	283.3	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1100

Sample Identification
MW-08-06 & MW-08-06-MS & MW-08-06-MSD

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	Nitrate
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-07	Date: 7/29/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	10.87	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, Sunny 79 F
	(B) Total Well Depth (ft BTOC):	16.44	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	5.57	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.89	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/29/2013	1043	10.93	3,373	500	23.87	6.49	2.09	0.10	4.4	-1.1	Slight fuel odor, clear
7/29/2013	1050	10.96	6,873	500	23.80	6.53	2.04	0.10	3.2	2.6	
7/29/2013	1057	10.94	10,373	500	23.74	6.58	2.01	0.11	2.4	8.4	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1100					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-07											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	MW-08-08	Date: 7/23/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	10.71	Casing: Type PVC	Diam. (in) 2.00	Weather: Partly Cloudy
	(B) Total Well Depth (ft BTOC):	15.98	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	5.27	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.84	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/23/2013	0910	11.29	3,184	500	21.31	6.34	2.76	4.58	13.0	200.3	
7/23/2013	0917	11.58	6,368	500	21.30	6.32	2.75	3.41	2.6	179.7	
7/23/2013	0924	11.78	9,552	500	21.39	6.32	2.77	3.39	1.7	156.9	
7/23/2013	0931	11.96	12,736	500	21.36	6.32	2.76	3.38	1.1	140.1	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
0935					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
MW-08-08											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	S10-MW01	Date: 7/23/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	13.66	Casing: Type PVC	Diam. (in) 1.00	Weather: Sunny, 81 F
	(B) Total Well Depth (ft BTOC):	21.65	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.99	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.28	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/23/2013	1059	14.00	4,851	500	20.79	6.59	7.22	2.65	2.8	268.9	
7/23/2013	1109	14.04	9,851	500	20.64	6.62	7.10	2.59	1.9	274.1	
7/23/2013	1119	14.09	14,702	500	20.58	6.63	7.01	2.52	1.4	280.4	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1120					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
S10-MW01 & S10-MW01-A											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	S10-MW02	Date: 7/24/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	14.64	Casing: Type PVC	Diam. (in) 1.00	Weather: Clear, Sunny, 84 F
	(B) Total Well Depth (ft BTOC):	16.76	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	2.12	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.34	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/24/2013	1105	14.91	1,500	500	24.46	6.85	2.07	19.05	8.1	0.5	
7/24/2013	1108	14.98	3,000	500	23.81	7.04	1.98	22.24	6.9	19	
7/24/2013	1111	15.03	4,500	500	23.49	7.05	2.00	23.76	6.1	31.1	
7/24/2013	1114	15.11	6,000	500	23.27	7.06	1.97	23.95	5.9	38.7	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1120					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
S10-MW02											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	S10-MW06	Date: 7/24/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	2.27	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, sunny, 74 F
	(B) Total Well Depth (ft BTOC):	15.48	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	13.21	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	2.11	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/24/2013	0820	4.52	8,000	500	19.36	6.70	8.05	0.73	2.3	185.0	
7/24/2013	0836	5.00	16,000	500	19.27	6.69	7.82	0.75	2.4	183.2	
7/24/2013	0852	5.38	24,000	500	19.19	6.68	7.76	0.77	2.1	180.1	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
0855

Sample Identification
S10-MW06 & S10-MW06-A

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	Nitrate
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	SD08-MW10	Date: 7/24/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	12.23	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, sunny, 82 F
	(B) Total Well Depth (ft BTOC):	19.88	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.65	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.22	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/24/2013	1017	13.16	4,624	500	22.57	6.43	2.35	5.82	12.0	-29.9	
7/24/2013	1027	13.50	9,624	500	22.51	6.47	2.31	5.89	12.0	-19.6	
7/24/2013	1037	13.87	14,624	500	22.39	6.49	2.28	5.93	10.0	-22.1	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time
1040

Sample Identification
SD08-MW10

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU
	Cond	+/- 10%	ORP	N/A

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
1	500 ml	Plastic	None	N	300	Nitrate
1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
1	250 ml	Plastic	None	N	2540	TDS

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	SD08-MW11	Date: 7/31/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	13.79	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, sunny, 81 F
	(B) Total Well Depth (ft BTOC):	20.52	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	6.73	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.08	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/31/2013	0920	14.76	4,093	500	21.28	6.76	16.43	0.91	5.3	123.6	Clear, no odor
7/31/2013	0929	15.58	8,593	500	21.15	6.76	15.81	0.93	3.0	124.1	
7/31/2013	0938	16.28	13,093	500	21.12	6.74	15.32	0.95	1.3	122.0	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
0940					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
SD08-MW11											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	SD08-MW12	Date: 7/22/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	3.46	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, sunny
	(B) Total Well Depth (ft BTOC):	15.49	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	12.03	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.92	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/22/2013	0950	4.06	7,277	500	21.84	6.63	59.70	0.15	4.8	270.4	Purged 3 volumes prior to collection of
7/22/2013	1004	4.10	14,554	500	21.76	6.63	59.83	0.16	3.8	261.8	field parameters, clear, no odor
7/22/2013	1019	4.13	21,831	500	21.71	6.63	59.85	0.16	2.9	253.6	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1020					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
SD08-MW12											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	SD08-MW13	Date: 7/31/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	1.89	Casing: Type PVC	Diam. (in) 2.00	Weather: Clear, sunny, 70 F
	(B) Total Well Depth (ft BTOC):	15.27	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	13.38	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	2.14	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/31/2013	0750	4.09	8,114	500	19.76	6.76	9.55	0.25	3.5	183.3	Clear, no odor
7/31/2013	0807	4.46	16,614	500	19.49	6.75	9.64	0.25	2.1	177.3	
7/31/2013	0824	4.62	25,114	500	19.41	6.75	9.68	0.26	1.8	175.6	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
0825					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
SD08-MW13											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SD-08	Location ID:	SWMU183-MW03	Date: 7/29/2013
	Project Name:	Long Term Monitoring	Project No./Phase:	10-0004	Recorded By: B. Parrish
EQUIPMENT	Pump Type:	Geopump (Peristaltic)	Water Quality Meter:	Horiba U-52	PID Type/ID#: NA
	Water Level Indicator Type:	Solinst	Other Equipment:	Hanna Turbidity Meter	Decon Method: Liquinox soap & DI water rinse
	Tubing Type/Diameter (in):	1/4" OD Poly	Other Equipment:		PPE Level: **D** C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	11.83	Casing: Type PVC	Diam. (in) 1.00	Weather: Clear, sunny, 82 F
	(B) Total Well Depth (ft BTOC):	15.90	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	4.07	Screen Length (lin ft):		Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.17	Screen Info: Type: Factory Slot	Slot Size: 0.010-inch	Well Opening PID (ppm): NA

CASING INFO											
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mL/min)	Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
7/29/2013	1123	13.42	644	500	24.30	6.82	2.49	0.18	12	-80.1	
7/29/2013	1136	13.70	1,394	500	24.50	6.83	2.48	0.18	10	-95.2	
7/29/2013	1139	14.10	2,144	500	23.93	6.84	2.46	0.16	9.10	-99.7	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					1	500 ml	Plastic	None	N	300	Nitrate
Sample Time					1	250 ml	Plastic	HNO3	Y	6010	Metals-Dissolved
1145					1	250 ml	Plastic	HNO3	N	6010	Mercury-Total
Sample Identification					1	250 ml	Plastic	None	N	2540	TDS
SWMU183-MW03											
Conversions	**Stabilization Criteria**										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTU							
	Cond	+/- 10%	ORP	N/A							

C-9

Quarter 8 MW Sample Collection Forms (Nov 2013, NationView)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/07/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 12.96	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 19.65	Screen Length (lin ft):	Sample Depth (ft): 16.50'
	(C) Water Column Thickness (ft) (B-A): 6.69	Screen Info: Type: Size:	
	Casing Volume: 1.07 gallons = 4055 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (gallon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/07/13	0934	13.30	4500	500	23.86	6.15	10.46	9.39	6.2	103.3	
	0943	13.32	9000	500	23.94	6.16	10.65	10.05	2.5	107.6	
	0952	13.33	13500	500	23.99	6.16	10.70	10.01	3.1	108.9	

Colorimeter Results				
Time	Analyte	Dilution	Result	Units
Sample Time				
0955				
Sample Identification				
MW-08-01				
Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs
	Cond	+/-10%	ORP	+/- 10

No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/06/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 13.73	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 18.82	Screen Length (lin ft):	Sample Depth (ft): 16.50'
	(C) Water Column Thickness (ft) (B-A): 5.09	Screen Info: Type: Size:	
	Casing Volume: 0.81 gallons = 3070 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (gallon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/06/13	1417	14.04	3500	500	24.68	6.13	3.96	0.02	2.6	59.5	
	1424	14.07	7000	500	24.77	6.14	3.98	0.02	1.5	62.4	
	1431	14.08	10500	500	24.73	6.13	4.00	0.02	1.2	64.3	

Colorimeter Results				
Time	Analyte	Dilution	Result	Units
Sample Time				
1435				
Sample Identification				
MW-08-02				
Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs
	Cond	+/-10%	ORP	+/- 10

No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/07/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 12.69	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 23.29	Screen Length (lin ft):	Sample Depth (ft): 18'-0"
	(C) Water Column Thickness (ft) (B-A): 10.60	Screen Info: Type: Size:	
	Casing Volume: 1.70 gallons = 6428 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (gallon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/07/13	0825	13.40	6500	500	22.41	6.63	14.10	3.57	8.9	75.4	
	0838	13.46	13000	500	22.57	6.64	14.61	3.69	8.9	74.2	
	0851	13.52	19500	500	22.68	6.64	14.68	3.71	5.3	70.4	

Colorimeter Results				
Time	Analyte	Dilution	Result	Units
Sample Time				
0855				
Sample Identification				
MW-08-03				
Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs
	Cond	+/-10%	ORP	+/- 10

No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/05/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 10.69	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 17.92	Screen Length (lin ft):	Sample Depth (ft): 14.60'
	(C) Water Column Thickness (ft) (B-A): 7.23	Screen Info: Type: Size:	
	Casing Volume: 1.61 gallons = 4396 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (gallon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/05/13	0928	12.29	4500	500	21.03	6.71	5.51	0.41	2.2	108.9	
	0937	12.71	9000	500	21.05	6.80	5.55	0.39	1.1	106.3	
	0946	12.81	13500	500	21.07	6.88	5.63	0.39	0.9	102.9	

Colorimeter Results				
Time	Analyte	Dilution	Result	Units
Sample Time				
0950				
Sample Identification				
MW-08-04				
Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs
	Cond	+/-10%	ORP	+/- 10

No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/05/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 11.53	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 18.90	Screen Length (lin ft):	Sample Depth (ft): 15'-0"
	(C) Water Column Thickness (ft) (B-A): 7.37	Screen Info: Type: Size:	
	Casing Volume: 1.18 gallons = 4472 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (gallon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/05/13	1026	11.76	4500	500	21.92	6.41	2.65	0.02	5.3	136.3	
	1035	11.78	9000	500	21.96	6.42	2.65	0.02	3.1	138.1	
	1044	11.81	13500	500	22.00	6.42	2.64	0.01	1.8	139.2	

Colorimeter Results				
Time	Analyte	Dilution	Result	Units
Sample Time				
1050				
Sample Identification				
MW-08-05				
Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs
	Cond	+/-10%	ORP	+/- 10

No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/05/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 10.25	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 14.65	Screen Length (lin ft):	Sample Depth (ft) 12.60'
	(C) Water Column Thickness (ft) (B-A): 4.40	Screen Info: Type: Size:	
	Casing Volume: 0.70 gallons = 2653 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (galllon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/05/13	0741	10.53	3000	500	20.84	6.93	22.01	0.26	4.7	146.6	
	0747	10.56	6000	500	20.83	6.92	22.64	0.25	2.6	142.0	
	0753	10.59	9000	500	20.85	6.91	22.89	0.25	2.4	138.3	

Colorimeter Results				
Time	Analyte	Dilution	Result	Units
Sample Time				
0800				
Sample Identification				
MW-08-06				

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs
	Cond	+/-10%	ORP	+/- 10

No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/06/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 10.33	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 16.39	Screen Length (lin ft):	Sample Depth (ft): 14'-0"
	(C) Water Column Thickness (ft) (B-A): 06.06	Screen Info: Type: Size:	
	Casing Volume: 0.97 gallons = 3676 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (gallon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/06/13	1313	10.41	4000	500	24.70	6.08	6.02	0.02	6.5	98.0	Mild Fuel Odor
	1321	10.42	8000	500	24.78	6.08	5.65	0.02	2.4	93.7	
	1329	10.42	12000	500	24.79	6.08	5.59	0.02	1.9	91.5	

Colorimeter Results				
Time	Analyte	Dilution	Result	Units
Sample Time				
1335				
Sample Identification				
MW-08-07				

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs
	Cond	+/-10%	ORP	+/- 10

No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/06/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 09.33	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 16.00	Screen Length (lin ft):	Sample Depth (ft): 13'-0"
	(C) Water Column Thickness (ft) (B-A): 06.67	Screen Info: Type: Size:	
	Casing Volume: 1.07 gallons = 4055 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (gallon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/06/13	1126	10.23	4500	500	22.13	6.21	29.49	0.02	3.6	177.9	
	1135	10.58	9000	500	22.04	6.23	30.44	0.02	3.2	178.2	
	1144	10.76	13500	500	22.05	6.24	31.27	0.01	2.9	179.3	

Colorimeter Results					No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units							
Sample Time											
1150											
Sample Identification											
MW-08-08											
Conversions	Stabilization Criteria										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs							
	Cond	+/-10%	ORP	+/- 10							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/05/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 12.67	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 21.66	Screen Length (lin ft):	Sample Depth (ft): 17'-0"
	(C) Water Column Thickness (ft) (B-A): 8.99	Screen Info: Type: Size:	
	Casing Volume: 1.44 gallons = 5458 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (gallon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/05/13	1128	12.94	5500	500	20.90	6.49	20.15	0.03	4.0	112.0	
	1139	12.95	11000	500	20.89	6.40	20.01	0.02	2.1	110.7	
	1150	12.96	16500	500	21.01	6.41	19.91	0.02	1.4	109.1	

Colorimeter Results					No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units							
Sample Time											
1155											
Sample Identification											
S10-MW01											
Conversions	Stabilization Criteria										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs							
	Cond	+/-10%	ORP	+/- 10							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/06/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 13.16	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 16.84	Screen Length (lin ft):	Sample Depth (ft): 15'-0"
	(C) Water Column Thickness (ft) (B-A): 3.68	Screen Info: Type: Size:	
	Casing Volume: 0.59 gallons = 2236 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (gallon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/06/13	0810	13.72	2500	250	21.37	6.83	3.28	0.58	1.7	81.7	
	0820	13.90	5000	250	21.55	6.83	3.31	0.55	1.0	87.0	
	0830	14.01	7500	250	21.58	6.82	3.34	0.53	0.8	89.1	

Colorimeter Results				
Time	Analyte	Dilution	Result	Units
Sample Time				
0835				
Sample Identification				
S10-MW02				
Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs
	Cond	+/-10%	ORP	+/- 10

No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/04/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 10.19	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 21.15	Screen Length (lin ft):	Sample Depth (ft) 16'-0"
	(C) Water Column Thickness (ft) (B-A): 10.96	Screen Info: Type: Size:	
	Casing Volume: 1.75 gallons = 6632 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (galllon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/04/13	1151	10.58	6500	500	21.67	6.59	15.90	1.20	9.0	182.5	
	1204	10.60	13000	500	21.71	6.60	15.97	1.19	11	180.7	
	1217	10.61	19500	500	21.72	6.60	16.05	1.15	6.6	178.2	

Colorimeter Results				
Time	Analyte	Dilution	Result	Units
Sample Time				
1230				
Sample Identification				
S10-MW06				
Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs
	Cond	+/-10%	ORP	+/- 10

No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/06/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 11.16	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 19.88	Screen Length (lin ft):	Sample Depth (ft): 16'-0"
	(C) Water Column Thickness (ft) (B-A): 8.72	Screen Info: Type: Size:	
	Casing Volume: 1.40 gallons = 5306 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (gallon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/06/13	1023	12.05	5500	500	22.92	6.11	4.62	0.02	6.5	135.0	
	1034	12.44	11000	500	22.89	6.12	4.58	0.02	3.0	134.4	
	1045	12.65	16500	500	22.82	6.12	4.57	0.03	1.9	131.0	

Colorimeter Results					No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units							
Sample Time											
1050											
Sample Identification											
SD08-MW10											
Conversions	Stabilization Criteria										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs							
	Cond	+/-10%	ORP	+/- 10							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/06/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 12.74	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 20.51	Screen Length (lin ft):	Sample Depth (ft): 17'-0"
	(C) Water Column Thickness (ft) (B-A): 7.77	Screen Info: Type: Size:	
	Casing Volume: 1.24 gallons = 4718 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (gallon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/06/13	0920	13.71	5000	500	21.18	6.42	21.63	0.01	1.8	38.0	
	0930	14.44	10000	500	21.37	6.43	21.59	0.01	1.7	36.9	
	0940	15.10	15000	500	21.38	6.82	21.14	0.01	1.2	36.1	

Colorimeter Results					No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units							
Sample Time											
0945											
Sample Identification											
SD08-MW11											
Conversions	Stabilization Criteria										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs							
	Cond	+/-10%	ORP	+/- 10							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/04/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 3.18	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 15.50	Screen Length (lin ft):	Sample Depth (ft) 10'-0"
	(C) Water Column Thickness (ft) (B-A): 12.32	Screen Info: Type: Size:	
	Casing Volume: 1.97 gallons = 7466 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (galllon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/04/13	1430	3.58	7500	500	21.52	6.31	46.13	0.09	4.0	116.7	
	1445	3.59	15000	500	21.47	6.31	48.81	0.08	2.1	114.5	
	1500	3.60	22500	500	21.49	6.31	48.89	0.08	1.8	112.9	

Colorimeter Results				
Time	Analyte	Dilution	Result	Units
Sample Time				
1505				
Sample Identification				
SD08-MW12				
Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs
	Cond	+/-10%	ORP	+/- 10

No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/04/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 1.66	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 15.48	Screen Length (lin ft):	Sample Depth (ft) 9'-0"
	(C) Water Column Thickness (ft) (B-A): 13.82	Screen Info: Type: Size:	
	Casing Volume: 2.21 gallons = 8376 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (galllon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/04/13	1310	3.49	8500	500	20.64	6.29	47.45	0.02	4.3	130.0	
	1327	3.57	17000	500	20.60	6.29	49.48	0.02	2.5	126.8	
	1344	3.73	25500	500	20.57	6.29	50.18	0.03	2.4	124.3	

Colorimeter Results					No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units							
Sample Time											
1350											
Sample Identification											
SD08-MW13											
Conversions	Stabilization Criteria										
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%							
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs							
	Cond	+/-10%	ORP	+/- 10							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site: Holloman AFB	Location ID: SD-08	Date 11/05/2013
	Project Name: SD-08	Project No./Phase: 10-0004.01.010	Recorded By: B Parrish
EQUIPMENT	Pump Type/ID#: Geopump	Water Quality Meter/ID#: YSI650	PID Type/ID#:
	Water Level Indicator : Heron	Other Equipment/ID#: La Motte turbidimeter	Decon Method:
	Tubing Type/Diameter (in): ¼" Polyethylene	Other Equipment/ID#.	PPE Level: D
WELL INFO	A) Initial Depth to Water (ft BTOC) 11.15	Casing Type PVC Diam. (in) 2.00	Weather: Clear
	(B) Total Well Depth (ft BTOC): 15.95	Screen Length (lin ft):	Sample Depth (ft): 14'-0"
	(C) Water Column Thickness (ft) (B-A): 4.80	Screen Info: Type: Size:	
	Casing Volume: 0.77 gallons = 2918 mL		

CASING INFO										
Riser/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier (gallon ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLI)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/1)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
11/05/13	1401	13.97	3000	250	23.44	6.89	7.88	0.02	2.3	191.9	
	1413	14.26	6000	250	23.31	6.90	7.81	0.02	1.3	189.2	
	1425	14.42	9000	250	23.36	6.89	7.79	0.02	1.1	189.9	

Colorimeter Results				
Time	Analyte	Dilution	Result	Units
Sample Time				
1430				
Sample Identification				
SWMU183-MW03				
Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/-0.1	Turb	+/- 5 NTUs
	Cond	+/-10%	ORP	+/- 10

No. Containers	Volume/Type		Preserv.	Filter (YiN)	Method	Parameter(s)

APPENDIX D

ANALYTICAL DATA PACKAGES

(Provided on Enclosed CD)

D-1

Additional Investigation (2006-07, Bhate)

Southeast ACCUTEST LABORATORIES

11/10/14

Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

PROJECT 9050361.01.04

Accutest Job Number: F44814

Sampling Date: 10/27/06

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **124**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Jean Dent-Smith 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 (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

Bhate Environmental Associates, Inc.

Job No: F44814

HOLMN
Project No: PROJECT 9050361.01.04

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F44814-1	10/27/06	09:45	JM	10/28/06	SO	Soil	SD-08-SB22-2
F44814-2	10/27/06	10:00	JM	10/28/06	SO	Soil	SD-08-SB22-7
F44814-2D	10/27/06	10:00	JM	10/28/06	SO	Soil Dup/MSD	SD-08-SB22-7
F44814-2S	10/27/06	10:00	JM	10/28/06	SO	Soil Matrix Spike	SD-08-SB22-7
F44814-3	10/27/06	10:00	JM	10/28/06	AQ	Equipment Blank	SD-08-SB22-EB
F44814-4	10/27/06	00:00	JM	10/28/06	AQ	Trip Blank Water	TRIP BLANK
F44814-5	10/27/06	00:00	JM	10/28/06	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Bhate Environmental Associates, Inc. **Job No:** F44814

Site: HOLMN **Report Date** 11/15/2006 2:29:51

3 Samples, 2 Trip Blanks were collected on 10/27/2006 and received at Accutest on 10/28/2006 properly preserved, at 0.8 Deg. C and intact. These Samples received an Accutest job number of F44814. 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:** VJ1069

All method blanks for this batch meet method specific criteria.

Sample(s) F44907-1MS, F44907-1MSD were used as the QC samples indicated.

The following samples were run outside of holding time for method SW846 8260B: F44814-3, F44814-4 Sample analyzed beyond hold time; reported results are considered minimum values.

Matrix Spike Recovery(s) for p-Chlorotoluene are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 1,2,4-Trimethylbenzene are outside control limits. Probable cause due to matrix interference.

F44814-4: Sample analyzed beyond hold time; reported results are considered minimum values.

F44814-3: Sample analyzed beyond hold time; reported results are considered minimum values.

Matrix: SO **Batch ID:** VG1573

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F44735-2MS, F44735-2MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Acrolein, Vinyl Acetate are outside control limits.

Matrix Spike Recovery(s) for Acrolein are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Acrolein are outside control limits. Probable cause due to matrix interference.

Matrix: SO **Batch ID:** VG1574

All samples were analyzed within the recommended method holding time.

Sample(s) F44814-2MS, F44814-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for Vinyl Acetate are outside control limits. Passed in MS/MSD, SW-846 8000 requirements are met.

MS/MSD Recovery(s) for Acrolein are outside control limits. See Blank Spike. Probable cause due to matrix interference.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP18327

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) F44781-2MS, F44781-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Pentachlorophenol are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Chloronaphthalene, 2-Methylnaphthalene, 2-Nitroaniline, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Bromophenyl phenyl ether, 4-Chloroaniline, 4-Nitroaniline, Benzidine, Dibenzofuran, Pentachlorophenol are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for 2-Methylnaphthalene, 2-Nitroaniline, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, 4-Nitroaniline, Benzidine, Benzyl Alcohol, Dibenzofuran, Pentachlorophenol are outside control limits for sample OP18327-MSD. Probable cause due to sample homogeneity.

Matrix: SO **Batch ID:** OP18426

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) F44814-2MS, F44814-2MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for Benzidine are outside control limits. See Blank Spike. Probable cause due to matrix interference.

Extractables by GC By Method SW846 8081A

Matrix: AQ **Batch ID:** OP18355

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) F44745-1MS, F44745-1MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP18466

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F44814-2MS, F44814-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix: AQ **Batch ID:** MP10617

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) F44741-8ADUP, F44741-8AMS, F44741-8AMSD, F44741-8ASDL were used as the QC samples for metals.

RPD(s) for Duplicate for Barium, Cadmium, Chromium, Lead are outside control limits for sample MP10617-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Cadmium, Chromium, Lead are outside control limits for sample MP10617-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP10652

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) F44835-1DUP, F44835-1MS, F44835-1MSD, F44835-1SDL were used as the QC samples for metals.

Matrix: SO **Batch ID:** MP10628

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) F44814-2DUP, F44814-2MS, F44814-2MSD, F44814-2SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Barium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

RPD(s) for Duplicate for Cadmium are outside control limits for sample MP10628-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for MSD for Barium are outside control limits for sample MP10628-S2. High RPD due to possible sample nonhomogeneity.

RPD(s) for Serial Dilution for Arsenic, Cadmium, Lead, Chromium are outside control limits for sample MP10628-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP10628-SD1 for Chromium: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7470A

Matrix: AQ **Batch ID:** MP10594

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) F44699-1MS, F44699-1MSD, F44699-1DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Mercury are outside control limits for sample MP10594-D1. RPD acceptable due to low duplicate and sample concentrations.

Metals By Method SW846 7471A

Matrix: SO **Batch ID:** MP10603

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) F44814-2MS, F44814-2MSD, F44814-2DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Mercury are outside control limits for sample MP10603-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA 160.3 M

Matrix: SO **Batch ID:** GN22800

Sample(s) F44808-1DUP were used as the QC samples for Solids, Percent.

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: November 15, 2006

Svetlana Izosimova, QAO (signature on file)

Summary of Hits

Job Number: F44814
Account: Bhate Environmental Associates, Inc.
Project: HOLMN
Collected: 10/27/06

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F44814-1	**SD-08-SB22-2**					
Diethyl phthalate		930	430	110	ug/kg	SW846 8270C
4,4'-DDE		1.1 J	4.4	0.89	ug/kg	SW846 8081A
Arsenic		3.0	1.1	0.52	mg/kg	SW846 6010B
Barium		114	27	0.11	mg/kg	SW846 6010B
Cadmium		0.13 J	0.54	0.027	mg/kg	SW846 6010B
Chromium		14.3	1.3	0.12	mg/kg	SW846 6010B
Lead		5.3 J	13	0.27	mg/kg	SW846 6010B
Mercury		0.0092 J	0.099	0.0079	mg/kg	SW846 7471A
F44814-2	**SD-08-SB22-7**					
Arsenic		3.1	0.90	0.44	mg/kg	SW846 6010B
Barium		87.2	23	0.090	mg/kg	SW846 6010B
Cadmium		0.024 J	0.45	0.023	mg/kg	SW846 6010B
Chromium		11.9	1.1	0.10	mg/kg	SW846 6010B
Lead		4.2 J	11	0.23	mg/kg	SW846 6010B
Mercury		0.021 J	0.091	0.0073	mg/kg	SW846 7471A
F44814-3	**SD-08-SB22-EB**					
Bromodichloromethane [a]		2.0	1.0	0.50	ug/l	SW846 8260B
Chloroform [a]		2.8	1.0	0.50	ug/l	SW846 8260B
Barium		0.76 J	200	0.40	ug/l	SW846 6010B
Lead		2.7 J	5.0	1.7	ug/l	SW846 6010B

F44814-4 **TRIP BLANK**

No hits reported in this sample.

F44814-5 **TRIP BLANK**

No hits reported in this sample.

(a) Sample analyzed beyond hold time; reported results are considered minimum values.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD-08-SB22-2		
Lab Sample ID:	F44814-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	74.3
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0040981.D	1	11/02/06	SH	10/28/06 11:45	n/a	VG1573
Run #2							

	Initial Weight
Run #1	4.82 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	70	35	ug/kg	
75-05-8	Acetonitrile	ND	70	49	ug/kg	
107-02-8	Acrolein	ND	35	21	ug/kg	
107-13-1	Acrylonitrile	ND	35	17	ug/kg	
107-05-1	Allyl chloride	ND	35	7.0	ug/kg	
71-43-2	Benzene	ND	7.0	2.8	ug/kg	
100-44-7	Benzyl Chloride	ND	7.0	4.2	ug/kg	
108-86-1	Bromobenzene	ND	7.0	2.8	ug/kg	
74-97-5	Bromochloromethane	ND	7.0	2.8	ug/kg	
75-27-4	Bromodichloromethane	ND	7.0	2.8	ug/kg	
75-25-2	Bromoform	ND	7.0	2.8	ug/kg	
104-51-8	n-Butylbenzene	ND	7.0	4.2	ug/kg	
135-98-8	sec-Butylbenzene	ND	7.0	2.8	ug/kg	
98-06-6	tert-Butylbenzene	ND	7.0	2.8	ug/kg	
108-90-7	Chlorobenzene	ND	7.0	2.8	ug/kg	
75-00-3	Chloroethane	ND	7.0	4.2	ug/kg	
67-66-3	Chloroform	ND	7.0	2.8	ug/kg	
544-10-5	1-Chlorohexane	ND	7.0	2.8	ug/kg	
95-49-8	o-Chlorotoluene	ND	7.0	2.8	ug/kg	
106-43-4	p-Chlorotoluene	ND	7.0	2.8	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	35	17	ug/kg	
75-15-0	Carbon disulfide	ND	7.0	2.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.0	2.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.0	2.8	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	7.0	2.8	ug/kg	
563-58-6	1,1-Dichloropropene	ND	7.0	2.8	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.0	4.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	7.0	2.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	7.0	2.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.0	2.8	ug/kg	
142-28-9	1,3-Dichloropropane	ND	7.0	2.8	ug/kg	
594-20-7	2,2-Dichloropropane	ND	7.0	2.8	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-2		
Lab Sample ID:	F44814-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	74.3
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	7.0	2.8	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.0	4.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	7.0	2.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.0	2.8	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	35	7.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	7.0	2.8	ug/kg	
95-50-1	o-Dichlorobenzene	ND	7.0	2.8	ug/kg	
106-46-7	p-Dichlorobenzene	ND	7.0	2.8	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	7.0	2.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.0	2.8	ug/kg	
100-41-4	Ethylbenzene	ND	7.0	2.8	ug/kg	
97-63-2	Ethyl methacrylate	ND	35	7.0	ug/kg	
76-13-1	Freon 113	ND	7.0	2.8	ug/kg	
591-78-6	2-Hexanone	ND	35	14	ug/kg	
87-68-3	Hexachlorobutadiene	ND	7.0	2.8	ug/kg	
110-54-3	Hexane	ND	7.0	4.2	ug/kg	
98-82-8	Isopropylbenzene	ND	7.0	2.8	ug/kg	
99-87-6	p-Isopropyltoluene	ND	7.0	2.8	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	35	14	ug/kg	
126-98-7	Methacrylonitrile	ND	35	14	ug/kg	
74-83-9	Methyl bromide	ND	7.0	2.8	ug/kg	
74-87-3	Methyl chloride	ND	7.0	2.8	ug/kg	
74-88-4	Methyl iodide	ND	14	2.8	ug/kg	
80-62-6	Methyl methacrylate	ND	35	7.0	ug/kg	
74-95-3	Methylene bromide	ND	7.0	2.8	ug/kg	
75-09-2	Methylene chloride	ND	14	7.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	35	14	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	7.0	2.8	ug/kg	
91-20-3	Naphthalene	ND	7.0	2.8	ug/kg	
76-01-7	Pentachloroethane	ND	35	7.0	ug/kg	
107-12-0	Propionitrile	ND	70	14	ug/kg	
103-65-1	n-Propylbenzene	ND	7.0	2.8	ug/kg	
100-42-5	Styrene	ND	7.0	2.8	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	7.0	2.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.0	2.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.0	2.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.0	2.8	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.0	2.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	7.0	3.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.0	2.8	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-2		
Lab Sample ID:	F44814-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	74.3
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	7.0	4.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	7.0	2.8	ug/kg	
127-18-4	Tetrachloroethylene	ND	7.0	2.8	ug/kg	
108-88-3	Toluene	ND	7.0	2.8	ug/kg	
79-01-6	Trichloroethylene	ND	7.0	2.8	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.0	2.8	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	35	14	ug/kg	
75-01-4	Vinyl chloride	ND	7.0	2.8	ug/kg	
108-05-4	Vinyl Acetate	ND	35	14	ug/kg	
	m,p-Xylene	ND	14	4.2	ug/kg	
95-47-6	o-Xylene	ND	7.0	2.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		78-123%
2037-26-5	Toluene-D8	93%		71-137%
460-00-4	4-Bromofluorobenzene	90%		61-157%
17060-07-0	1,2-Dichloroethane-D4	96%		74-125%

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Report of Analysis

Client Sample ID:	SD-08-SB22-2		
Lab Sample ID:	F44814-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	74.3
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L034665.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781
Run #2							

	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	1100	430	ug/kg	
95-57-8	2-Chlorophenol	ND	210	43	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	43	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	43	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	43	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	430	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	430	86	ug/kg	
95-48-7	2-Methylphenol	ND	210	43	ug/kg	
	3&4-Methylphenol	ND	210	43	ug/kg	
88-75-5	2-Nitrophenol	ND	210	43	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	430	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	430	ug/kg	
108-95-2	Phenol	ND	210	43	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	43	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	43	ug/kg	
83-32-9	Acenaphthene	ND	210	43	ug/kg	
208-96-8	Acenaphthylene	ND	210	43	ug/kg	
120-12-7	Anthracene	ND	210	43	ug/kg	
92-87-5	Benzidine	ND	2100	1100	ug/kg	
56-55-3	Benzo(a)anthracene	ND	210	43	ug/kg	
50-32-8	Benzo(a)pyrene	ND	210	43	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	210	43	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	210	86	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	210	43	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	210	43	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	430	110	ug/kg	
100-51-6	Benzyl Alcohol	ND	210	43	ug/kg	
91-58-7	2-Chloronaphthalene	ND	210	43	ug/kg	
106-47-8	4-Chloroaniline	ND	430	170	ug/kg	
218-01-9	Chrysene	ND	210	43	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	210	43	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	210	86	ug/kg	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-2		
Lab Sample ID:	F44814-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	74.3
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	210	43	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	210	43	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	210	43	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	210	43	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	210	43	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	210	86	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	210	86	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	430	210	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	210	86	ug/kg	
132-64-9	Dibenzofuran	ND	210	43	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	430	110	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	430	210	ug/kg	
84-66-2	Diethyl phthalate	930	430	110	ug/kg	
131-11-3	Dimethyl phthalate	ND	430	110	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	430	210	ug/kg	
206-44-0	Fluoranthene	ND	210	43	ug/kg	
86-73-7	Fluorene	ND	210	43	ug/kg	
118-74-1	Hexachlorobenzene	ND	210	43	ug/kg	
87-68-3	Hexachlorobutadiene	ND	210	86	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	210	86	ug/kg	
67-72-1	Hexachloroethane	ND	210	86	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	210	86	ug/kg	
78-59-1	Isophorone	ND	210	43	ug/kg	
91-57-6	2-Methylnaphthalene	ND	210	43	ug/kg	
88-74-4	2-Nitroaniline	ND	430	110	ug/kg	
99-09-2	3-Nitroaniline	ND	430	110	ug/kg	
100-01-6	4-Nitroaniline	ND	430	150	ug/kg	
91-20-3	Naphthalene	ND	210	43	ug/kg	
98-95-3	Nitrobenzene	ND	210	43	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	210	86	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	43	ug/kg	
85-01-8	Phenanthrene	ND	210	43	ug/kg	
129-00-0	Pyrene	ND	210	86	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	43	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		45-114%
4165-62-2	Phenol-d5	61%		44-124%
118-79-6	2,4,6-Tribromophenol	74%		50-128%

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Report of Analysis

Client Sample ID:	SD-08-SB22-2		
Lab Sample ID:	F44814-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	74.3
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		41-123%
321-60-8	2-Fluorobiphenyl	59%		46-122%
1718-51-0	Terphenyl-d14	75%		45-135%

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Report of Analysis

Client Sample ID:	SD-08-SB22-2		
Lab Sample ID:	F44814-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8081A SW846 3550B	**Percent Solids:**	74.3
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT03311.D	1	11/12/06	VS	11/09/06	OP18466	GTT117
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	2.2	0.89	ug/kg	
319-84-6	alpha-BHC	ND	2.2	0.89	ug/kg	
319-85-7	beta-BHC	ND	2.2	0.89	ug/kg	
319-86-8	delta-BHC	ND	2.2	0.89	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	2.2	0.89	ug/kg	
5103-71-9	alpha-Chlordane	ND	2.2	0.89	ug/kg	
5103-74-2	gamma-Chlordane	ND	2.2	0.89	ug/kg	
60-57-1	Dieldrin	ND	2.2	0.89	ug/kg	
72-54-8	4,4'-DDD	ND	4.4	0.89	ug/kg	
72-55-9	4,4'-DDE	1.1	4.4	0.89	ug/kg	J
50-29-3	4,4'-DDT	ND	4.4	1.3	ug/kg	
72-20-8	Endrin	ND	4.4	0.89	ug/kg	
1031-07-8	Endosulfan sulfate	ND	4.4	0.89	ug/kg	
7421-93-4	Endrin aldehyde	ND	4.4	1.8	ug/kg	
53494-70-5	Endrin ketone	ND	4.4	0.89	ug/kg	
959-98-8	Endosulfan-I	ND	2.2	0.89	ug/kg	
33213-65-9	Endosulfan-II	ND	4.4	0.89	ug/kg	
76-44-8	Heptachlor	ND	2.2	0.89	ug/kg	
1024-57-3	Heptachlor epoxide	ND	2.2	0.89	ug/kg	
72-43-5	Methoxychlor	ND	4.4	1.8	ug/kg	
8001-35-2	Toxaphene	ND	110	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		60-142%
2051-24-3	Decachlorobiphenyl	82%		61-153%

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Report of Analysis

Client Sample ID:	SD-08-SB22-2		
Lab Sample ID:	F44814-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
		Percent Solids:	74.3
Project:	HOLMN		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.0	1.1	0.52	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]
Barium	114	27	0.11	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]
Cadmium	0.13 J	0.54	0.027	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]
Chromium	14.3	1.3	0.12	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]
Lead	5.3 J	13	0.27	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]
Mercury	0.0092 J	0.099	0.0079	mg/kg	1	10/31/06	10/31/06	MS	SW846 7471A [1]	SW846 7471A [3]
Selenium	0.27 U	13	0.27	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]
Silver	0.12 U	1.3	0.12	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA5317
(2) Instrument QC Batch: MA5326
(3) Prep QC Batch: MP10603
(4) Prep QC Batch: MP10628

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SD-08-SB22-7		
Lab Sample ID:	F44814-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	82.1
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0040991.D	1	11/03/06	SH	10/28/06 11:45	n/a	VG1574
Run #2							

	Initial Weight
Run #1	5.61 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	54	27	ug/kg	
75-05-8	Acetonitrile	ND	54	38	ug/kg	
107-02-8	Acrolein	ND	27	16	ug/kg	
107-13-1	Acrylonitrile	ND	27	14	ug/kg	
107-05-1	Allyl chloride	ND	27	5.4	ug/kg	
71-43-2	Benzene	ND	5.4	2.2	ug/kg	
100-44-7	Benzyl Chloride	ND	5.4	3.3	ug/kg	
108-86-1	Bromobenzene	ND	5.4	2.2	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	2.2	ug/kg	
75-25-2	Bromoform	ND	5.4	2.2	ug/kg	
104-51-8	n-Butylbenzene	ND	5.4	3.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.4	2.2	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.4	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.4	3.3	ug/kg	
67-66-3	Chloroform	ND	5.4	2.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.4	2.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.4	2.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.4	2.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	27	14	ug/kg	
75-15-0	Carbon disulfide	ND	5.4	2.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.4	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	2.2	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.4	2.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.4	3.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.4	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	2.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.4	2.2	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.4	2.2	ug/kg	

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Report of Analysis

Client Sample ID:	SD-08-SB22-7		
Lab Sample ID:	F44814-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	82.1
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.4	2.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	3.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	2.2	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	27	5.4	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.4	2.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.4	2.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.4	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	2.2	ug/kg	
97-63-2	Ethyl methacrylate	ND	27	5.4	ug/kg	
76-13-1	Freon 113	ND	5.4	2.2	ug/kg	
591-78-6	2-Hexanone	ND	27	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.4	2.2	ug/kg	
110-54-3	Hexane	ND	5.4	3.3	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	2.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.4	2.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	27	11	ug/kg	
126-98-7	Methacrylonitrile	ND	27	11	ug/kg	
74-83-9	Methyl bromide	ND	5.4	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.4	2.2	ug/kg	
74-88-4	Methyl iodide	ND	11	2.2	ug/kg	
80-62-6	Methyl methacrylate	ND	27	5.4	ug/kg	
74-95-3	Methylene bromide	ND	5.4	2.2	ug/kg	
75-09-2	Methylene chloride	ND	11	5.4	ug/kg	
78-93-3	Methyl ethyl ketone	ND	27	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.4	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.4	2.2	ug/kg	
76-01-7	Pentachloroethane	ND	27	5.4	ug/kg	
107-12-0	Propionitrile	ND	54	11	ug/kg	
103-65-1	n-Propylbenzene	ND	5.4	2.2	ug/kg	
100-42-5	Styrene	ND	5.4	2.2	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.4	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	2.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	2.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.4	2.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	2.2	ug/kg	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-7		
Lab Sample ID:	F44814-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	82.1
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	3.3	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.4	2.2	ug/kg	
108-88-3	Toluene	ND	5.4	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	2.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	2.2	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	27	11	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	2.2	ug/kg	
108-05-4	Vinyl Acetate	ND	27	11	ug/kg	
	m,p-Xylene	ND	11	3.3	ug/kg	
95-47-6	o-Xylene	ND	5.4	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		78-123%
2037-26-5	Toluene-D8	92%		71-137%
460-00-4	4-Bromofluorobenzene	92%		61-157%
17060-07-0	1,2-Dichloroethane-D4	95%		74-125%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-7		
Lab Sample ID:	F44814-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	82.1
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L034666.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	990	400	ug/kg	
95-57-8	2-Chlorophenol	ND	200	40	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	40	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	40	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	40	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	990	400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	400	79	ug/kg	
95-48-7	2-Methylphenol	ND	200	40	ug/kg	
	3&4-Methylphenol	ND	200	40	ug/kg	
88-75-5	2-Nitrophenol	ND	200	40	ug/kg	
100-02-7	4-Nitrophenol	ND	990	400	ug/kg	
87-86-5	Pentachlorophenol	ND	990	400	ug/kg	
108-95-2	Phenol	ND	200	40	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	40	ug/kg	
83-32-9	Acenaphthene	ND	200	40	ug/kg	
208-96-8	Acenaphthylene	ND	200	40	ug/kg	
120-12-7	Anthracene	ND	200	40	ug/kg	
92-87-5	Benzidine	ND	2000	990	ug/kg	
56-55-3	Benzo(a)anthracene	ND	200	40	ug/kg	
50-32-8	Benzo(a)pyrene	ND	200	40	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	200	40	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	200	79	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	200	40	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	200	40	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	400	99	ug/kg	
100-51-6	Benzyl Alcohol	ND	200	40	ug/kg	
91-58-7	2-Chloronaphthalene	ND	200	40	ug/kg	
106-47-8	4-Chloroaniline	ND	400	160	ug/kg	
218-01-9	Chrysene	ND	200	40	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	200	40	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	200	79	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-7		
Lab Sample ID:	F44814-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	82.1
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	200	40	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	40	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	200	40	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	200	40	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	200	40	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	200	79	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	200	79	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	400	200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	200	79	ug/kg	
132-64-9	Dibenzofuran	ND	200	40	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	400	99	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	400	200	ug/kg	
84-66-2	Diethyl phthalate	ND	400	99	ug/kg	
131-11-3	Dimethyl phthalate	ND	400	99	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	400	200	ug/kg	
206-44-0	Fluoranthene	ND	200	40	ug/kg	
86-73-7	Fluorene	ND	200	40	ug/kg	
118-74-1	Hexachlorobenzene	ND	200	40	ug/kg	
87-68-3	Hexachlorobutadiene	ND	200	79	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	200	79	ug/kg	
67-72-1	Hexachloroethane	ND	200	79	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	200	79	ug/kg	
78-59-1	Isophorone	ND	200	40	ug/kg	
91-57-6	2-Methylnaphthalene	ND	200	40	ug/kg	
88-74-4	2-Nitroaniline	ND	400	99	ug/kg	
99-09-2	3-Nitroaniline	ND	400	99	ug/kg	
100-01-6	4-Nitroaniline	ND	400	140	ug/kg	
91-20-3	Naphthalene	ND	200	40	ug/kg	
98-95-3	Nitrobenzene	ND	200	40	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	200	79	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	40	ug/kg	
85-01-8	Phenanthrene	ND	200	40	ug/kg	
129-00-0	Pyrene	ND	200	79	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	200	40	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		45-114%
4165-62-2	Phenol-d5	56%		44-124%
118-79-6	2,4,6-Tribromophenol	63%		50-128%

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-7		
Lab Sample ID:	F44814-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	82.1
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	53%		41-123%
321-60-8	2-Fluorobiphenyl	54%		46-122%
1718-51-0	Terphenyl-d14	63%		45-135%

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-7		
Lab Sample ID:	F44814-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8081A SW846 3550B	**Percent Solids:**	82.1
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT03312.D	1	11/12/06	VS	11/09/06	OP18466	GTT117
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	2.0	0.80	ug/kg	
319-84-6	alpha-BHC	ND	2.0	0.80	ug/kg	
319-85-7	beta-BHC	ND	2.0	0.80	ug/kg	
319-86-8	delta-BHC	ND	2.0	0.80	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	2.0	0.80	ug/kg	
5103-71-9	alpha-Chlordane	ND	2.0	0.80	ug/kg	
5103-74-2	gamma-Chlordane	ND	2.0	0.80	ug/kg	
60-57-1	Dieldrin	ND	2.0	0.80	ug/kg	
72-54-8	4,4'-DDD	ND	4.0	0.80	ug/kg	
72-55-9	4,4'-DDE	ND	4.0	0.80	ug/kg	
50-29-3	4,4'-DDT	ND	4.0	1.2	ug/kg	
72-20-8	Endrin	ND	4.0	0.80	ug/kg	
1031-07-8	Endosulfan sulfate	ND	4.0	0.80	ug/kg	
7421-93-4	Endrin aldehyde	ND	4.0	1.6	ug/kg	
53494-70-5	Endrin ketone	ND	4.0	0.80	ug/kg	
959-98-8	Endosulfan-I	ND	2.0	0.80	ug/kg	
33213-65-9	Endosulfan-II	ND	4.0	0.80	ug/kg	
76-44-8	Heptachlor	ND	2.0	0.80	ug/kg	
1024-57-3	Heptachlor epoxide	ND	2.0	0.80	ug/kg	
72-43-5	Methoxychlor	ND	4.0	1.6	ug/kg	
8001-35-2	Toxaphene	ND	100	50	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		60-142%
2051-24-3	Decachlorobiphenyl	90%		61-153%

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-7		
Lab Sample ID:	F44814-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
		Percent Solids:	82.1
Project:	HOLMN		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.1	0.90	0.44	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]
Barium	87.2	23	0.090	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]
Cadmium	0.024 J	0.45	0.023	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]
Chromium	11.9	1.1	0.10	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]
Lead	4.2 J	11	0.23	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]
Mercury	0.021 J	0.091	0.0073	mg/kg	1	10/31/06	10/31/06	MS	SW846 7471A [1]	SW846 7471A [3]
Selenium	0.23 U	11	0.23	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]
Silver	0.10 U	1.1	0.10	mg/kg	1	11/02/06	11/03/06	DM	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA5317
(2) Instrument QC Batch: MA5326
(3) Prep QC Batch: MP10603
(4) Prep QC Batch: MP10628

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SD-08-SB22-EB		
Lab Sample ID:	F44814-3	**Date Sampled:**	10/27/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/28/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	J026078.D	1	11/13/06	AB	n/a	n/a	VJ1069
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	2.0	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	2.8	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-EB		
Lab Sample ID:	F44814-3	**Date Sampled:**	10/27/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/28/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-EB		
Lab Sample ID:	F44814-3	**Date Sampled:**	10/27/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/28/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		86-115%
17060-07-0	1,2-Dichloroethane-D4	104%		73-126%
2037-26-5	Toluene-D8	93%		86-112%
460-00-4	4-Bromofluorobenzene	103%		83-119%

(a) Sample analyzed beyond hold time; reported results are considered minimum values.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-EB		
Lab Sample ID:	F44814-3	**Date Sampled:**	10/27/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L034505.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	9.8	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.9	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	9.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	4.9	ug/l	
95-48-7	2-Methylphenol	ND	4.9	2.0	ug/l	
	3&4-Methylphenol	ND	4.9	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	9.8	ug/l	
87-86-5	Pentachlorophenol	ND	25	9.8	ug/l	
108-95-2	Phenol	ND	4.9	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	2.0	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.98	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.98	ug/l	
92-87-5	Benzidine	ND	25	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.98	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.98	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.98	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.98	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.9	0.98	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.9	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.98	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	9.8	3.9	ug/l	
218-01-9	Chrysene	ND	4.9	0.98	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.98	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-EB		
Lab Sample ID:	F44814-3	**Date Sampled:**	10/27/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.98	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.9	0.98	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.98	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.98	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.98	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.8	4.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	2.0	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.9	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.9	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	4.9	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.9	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	2.5	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.98	ug/l	
86-73-7	Fluorene	ND	4.9	0.98	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.98	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.9	2.0	ug/l	
67-72-1	Hexachloroethane	ND	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	2.0	ug/l	
78-59-1	Isophorone	ND	4.9	0.98	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.98	ug/l	
88-74-4	2-Nitroaniline	ND	9.8	3.9	ug/l	
99-09-2	3-Nitroaniline	ND	9.8	3.9	ug/l	
100-01-6	4-Nitroaniline	ND	9.8	3.9	ug/l	
91-20-3	Naphthalene	ND	4.9	0.98	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.98	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.9	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	2.0	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.98	ug/l	
129-00-0	Pyrene	ND	4.9	0.98	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.98	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		19-90%
4165-62-2	Phenol-d5	19%		10-68%
118-79-6	2,4,6-Tribromophenol	53%		36-137%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB22-EB		
Lab Sample ID:	F44814-3	**Date Sampled:**	10/27/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	56%		49-119%
321-60-8	2-Fluorobiphenyl	57%		45-118%
1718-51-0	Terphenyl-d14	70%		46-135%

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:	SD-08-SB22-EB		
Lab Sample ID:	F44814-3	**Date Sampled:**	10/27/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/28/06
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT03035.D	1	11/05/06	SKW	10/31/06	OP18355	GTT110
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.049	0.019	ug/l	
319-84-6	alpha-BHC	ND	0.049	0.015	ug/l	
319-85-7	beta-BHC	ND	0.049	0.019	ug/l	
319-86-8	delta-BHC	ND	0.049	0.019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.049	0.015	ug/l	
5103-71-9	alpha-Chlordane	ND	0.049	0.015	ug/l	
5103-74-2	gamma-Chlordane	ND	0.049	0.015	ug/l	
60-57-1	Dieldrin	ND	0.049	0.015	ug/l	
72-54-8	4,4'-DDD	ND	0.097	0.019	ug/l	
72-55-9	4,4'-DDE	ND	0.097	0.019	ug/l	
50-29-3	4,4'-DDT	ND	0.097	0.019	ug/l	
72-20-8	Endrin	ND	0.097	0.039	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.097	0.019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.097	0.039	ug/l	
53494-70-5	Endrin ketone	ND	0.097	0.019	ug/l	
959-98-8	Endosulfan-I	ND	0.049	0.015	ug/l	
33213-65-9	Endosulfan-II	ND	0.097	0.019	ug/l	
76-44-8	Heptachlor	ND	0.049	0.019	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.049	0.015	ug/l	
72-43-5	Methoxychlor	ND	0.097	0.039	ug/l	
8001-35-2	Toxaphene	ND	2.4	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		60-138%
2051-24-3	Decachlorobiphenyl	81%		31-148%

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Report of Analysis

Client Sample ID:	SD-08-SB22-EB		
Lab Sample ID:	F44814-3	**Date Sampled:**	10/27/06
Matrix:	AQ - Equipment Blank	**Date Received:**	10/28/06
		Percent Solids:	n/a
Project:	HOLMN		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	11/01/06	11/07/06	RS	SW846 6010B [3]	SW846 3010A [6]
Barium	0.76 J	200	0.40	ug/l	1	11/01/06	11/02/06	RS	SW846 6010B [2]	SW846 3010A [5]
Cadmium	0.30 U	5.0	0.30	ug/l	1	11/01/06	11/02/06	RS	SW846 6010B [2]	SW846 3010A [5]
Chromium	0.60 U	10	0.60	ug/l	1	11/01/06	11/02/06	RS	SW846 6010B [2]	SW846 3010A [5]
Lead	2.7 J	5.0	1.7	ug/l	1	11/01/06	11/02/06	RS	SW846 6010B [2]	SW846 3010A [5]
Mercury	0.10 U	1.0	0.10	ug/l	1	10/30/06	10/30/06	MS	SW846 7470A [1]	SW846 7470A [4]
Selenium	2.8 U	10	2.8	ug/l	1	11/01/06	11/07/06	RS	SW846 6010B [3]	SW846 3010A [6]
Silver	0.90 U	10	0.90	ug/l	1	11/01/06	11/02/06	RS	SW846 6010B [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA5314
(2) Instrument QC Batch: MA5320
(3) Instrument QC Batch: MA5331
(4) Prep QC Batch: MP10594
(5) Prep QC Batch: MP10617
(6) Prep QC Batch: MP10652

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F44814-4	**Date Sampled:**	10/27/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/28/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	J026079.D	1	11/13/06	AB	n/a	n/a	VJ1069
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F44814-4	**Date Sampled:**	10/27/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/28/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

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Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F44814-4	**Date Sampled:**	10/27/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/28/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		86-115%
17060-07-0	1,2-Dichloroethane-D4	104%		73-126%
2037-26-5	Toluene-D8	93%		86-112%
460-00-4	4-Bromofluorobenzene	104%		83-119%

(a) Sample analyzed beyond hold time; reported results are considered minimum values.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F44814-5	**Date Sampled:**	10/27/06
Matrix:	SO - Trip Blank Soil	**Date Received:**	10/28/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0040983.D	1	11/02/06	SH	n/a	n/a	VG1573
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	25	ug/kg	
75-05-8	Acetonitrile	ND	50	35	ug/kg	
107-02-8	Acrolein	ND	25	15	ug/kg	
107-13-1	Acrylonitrile	ND	25	13	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	2.0	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	3.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	2.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	2.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	2.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	3.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	3.0	ug/kg	
67-66-3	Chloroform	ND	5.0	2.0	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	2.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	2.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	13	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	2.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	3.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	2.0	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F44814-5	**Date Sampled:**	10/27/06
Matrix:	SO - Trip Blank Soil	**Date Received:**	10/28/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	3.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	2.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	2.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	2.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	2.0	ug/kg	
591-78-6	2-Hexanone	ND	25	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	3.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	2.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/kg	
126-98-7	Methacrylonitrile	ND	25	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	2.0	ug/kg	
80-62-6	Methyl methacrylate	ND	25	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	10	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	2.0	ug/kg	
100-42-5	Styrene	ND	5.0	2.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.0	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F44814-5	**Date Sampled:**	10/27/06
Matrix:	SO - Trip Blank Soil	**Date Received:**	10/28/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	3.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	2.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	10	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	10	ug/kg	
	m,p-Xylene	ND	10	3.0	ug/kg	
95-47-6	o-Xylene	ND	5.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		78-123%
2037-26-5	Toluene-D8	92%		71-137%
460-00-4	4-Bromofluorobenzene	88%		61-157%
17060-07-0	1,2-Dichloroethane-D4	96%		74-125%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range 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

F44814

BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

Page 1 of 1

Project Number 9050361.01.04

P.O. NA

Chain of Custody Number [1]:102720062

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: Jim Moore

Field Sample ID (20 Characters Max)	IRPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)		BA Code [3]	Sample Number [3]	Sample Matrix [4]	Sample Analysis Requested [5]: VOC 8260	SVOC 8270	Pest 8081	RCRA Metals 6010/7470					Quality Assurance Samples [6]: Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
*SD-08-SB22-2	SD-08-SB22-2	27/10/2006	0945	1'	2'	N	1	SO	4	☒	☒	☒	☒							2
*SD-08-SB22-7	SD-08-SB22-7	27/10/2006	1000	6'	7'	N	1	SO	4	☒	☒	☒	☒							2
*SD-08-SB22-7ms	SD-08-SB22-7ms	27/10/2006	1000	6'	7'	MS	1	SO	4	☒	☒	☒	☒							2
*SD-08-SB22-7msd	SD-08-SB22-7msd	27/10/2006	1000	6'	7'	SD	1	SO	4	☒	☒	☒	☒							2
SD-08-SB22-EB	SD-08-SB22-EB	27/10/2006	1000	0'	0'	EB	1	AQ	8	☒	☒	☒	☒							2
Trip Blank	Field QC	27/10/2006	0945			TB		AQ	2	☒										2

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15 * 8oz jars Ok'ed by lab
Orlando, FL 32811 Email Results to rrenvironmental@zlanet.com;keving@zlanet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.		10-27-2006	1600			
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FEDEX

Analytical Lab: Accutest Lab

Lab Recipient:

Shipped No.:

Airbill Number:

Delivery Location: Orlando FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-e) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number. Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes. GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SD = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

0.8

5.1

5

F44814: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44814 CLIENT: Bhate PROJECT: SD 08

DATE/TIME RECEIVED: 10/25/06 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.8

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8581 0350 1606

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

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
- [x] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? 02

NUMBER OF 5035 FIELD KITS ? 02/12

NUMBER OR LAB FILTERED METALS ? 2

SUMMARY OF COMMENTS: Soil trip not on coc + water trip on coc

TECHNICIAN SIGNATURE/DATE: 10/25/06 TECHNICIAN SIGNATURE/DATE: ASBD 10/03/06

5.1 5

F44814: Chain of Custody
Page 2 of 2

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1573-MB	G0040961.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-1, F44814-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	25	ug/kg	
75-05-8	Acetonitrile	ND	50	35	ug/kg	
107-02-8	Acrolein	ND	25	15	ug/kg	
107-13-1	Acrylonitrile	ND	25	13	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	2.0	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	3.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	2.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	2.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	2.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	3.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	3.0	ug/kg	
67-66-3	Chloroform	ND	5.0	2.0	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	2.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	2.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	13	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	2.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	3.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	3.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1573-MB	G0040961.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-1, F44814-5

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	2.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	2.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	2.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	2.0	ug/kg	
591-78-6	2-Hexanone	ND	25	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	3.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	2.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/kg	
126-98-7	Methacrylonitrile	ND	25	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	2.0	ug/kg	
80-62-6	Methyl methacrylate	ND	25	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	10	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	2.0	ug/kg	
100-42-5	Styrene	ND	5.0	2.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.0	ug/kg	

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1573-MB	G0040961.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-1, F44814-5

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	3.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	2.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	10	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	10	ug/kg	
	m,p-Xylene	ND	10	3.0	ug/kg	
95-47-6	o-Xylene	ND	5.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	78-123%
2037-26-5	Toluene-D8	91%	71-137%
460-00-4	4-Bromofluorobenzene	94%	61-157%
17060-07-0	1,2-Dichloroethane-D4	97%	74-125%

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1574-MB	G0040990.D	1	11/03/06	SH	n/a	n/a	VG1574

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	25	ug/kg	
75-05-8	Acetonitrile	ND	50	35	ug/kg	
107-02-8	Acrolein	ND	25	15	ug/kg	
107-13-1	Acrylonitrile	ND	25	13	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	2.0	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	3.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	2.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	2.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	2.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	3.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	3.0	ug/kg	
67-66-3	Chloroform	ND	5.0	2.0	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	2.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	2.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	13	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	2.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	3.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	3.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1574-MB	G0040990.D	1	11/03/06	SH	n/a	n/a	VG1574

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-2

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	2.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	2.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	2.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	2.0	ug/kg	
591-78-6	2-Hexanone	ND	25	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	3.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	2.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/kg	
126-98-7	Methacrylonitrile	ND	25	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	2.0	ug/kg	
80-62-6	Methyl methacrylate	ND	25	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	10	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	2.0	ug/kg	
100-42-5	Styrene	ND	5.0	2.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.0	ug/kg	

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1574-MB	G0040990.D	1	11/03/06	SH	n/a	n/a	VG1574

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-2

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	3.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	2.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	10	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	10	ug/kg	
	m,p-Xylene	ND	10	3.0	ug/kg	
95-47-6	o-Xylene	ND	5.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	78-123%
2037-26-5	Toluene-D8	89%	71-137%
460-00-4	4-Bromofluorobenzene	93%	61-157%
17060-07-0	1,2-Dichloroethane-D4	96%	74-125%

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1069-MB	J026070.D	1	11/13/06	AB	n/a	n/a	VJ1069

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-3, F44814-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1069-MB	J026070.D	1	11/13/06	AB	n/a	n/a	VJ1069

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-3, F44814-4

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1069-MB	J026070.D	1	11/13/06	AB	n/a	n/a	VJ1069

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-3, F44814-4

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	86-115%
17060-07-0	1,2-Dichloroethane-D4	101%	73-126%
2037-26-5	Toluene-D8	93%	86-112%
460-00-4	4-Bromofluorobenzene	101%	83-119%

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1573-BS	G0040960.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-1, F44814-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	233	93	51-136
75-05-8	Acetonitrile	500	425	85	50-150 [a]
107-02-8	Acrolein	250	464	186*	28-180
107-13-1	Acrylonitrile	250	258	103	43-151
107-05-1	Allyl chloride	50	47.6	95	50-150 [a]
71-43-2	Benzene	50	55.8	112	74-124
100-44-7	Benzyl Chloride	50	51.4	103	50-150 [a]
108-86-1	Bromobenzene	50	53.2	106	78-117
74-97-5	Bromochloromethane	50	50.9	102	77-126
75-27-4	Bromodichloromethane	50	51.9	104	74-124
75-25-2	Bromoform	50	49.9	100	79-127
104-51-8	n-Butylbenzene	50	56.5	113	75-131
135-98-8	sec-Butylbenzene	50	58.1	116	78-128
98-06-6	tert-Butylbenzene	50	56.1	112	76-126
108-90-7	Chlorobenzene	50	54.7	109	78-117
75-00-3	Chloroethane	50	60.4	121	63-147
67-66-3	Chloroform	50	56.9	114	75-121
544-10-5	1-Chlorohexane	50	58.2	116	76-137
95-49-8	o-Chlorotoluene	50	54.5	109	79-124
106-43-4	p-Chlorotoluene	50	56.0	112	79-124
110-75-8	2-Chloroethyl vinyl ether	250	264	106	31-165
75-15-0	Carbon disulfide	50	59.6	119	59-148
56-23-5	Carbon tetrachloride	50	57.9	116	67-131
75-34-3	1,1-Dichloroethane	50	57.3	115	71-118
75-35-4	1,1-Dichloroethylene	50	56.3	113	64-126
563-58-6	1,1-Dichloropropene	50	56.8	114	73-132
96-12-8	1,2-Dibromo-3-chloropropane	50	47.7	95	71-128
106-93-4	1,2-Dibromoethane	50	51.2	102	78-117
107-06-2	1,2-Dichloroethane	50	52.9	106	72-120
78-87-5	1,2-Dichloropropane	50	54.3	109	74-126
142-28-9	1,3-Dichloropropane	50	51.0	102	77-117
594-20-7	2,2-Dichloropropane	50	59.5	119	66-126
124-48-1	Dibromochloromethane	50	51.4	103	78-120
75-71-8	Dichlorodifluoromethane	50	31.8	64	33-172
156-59-2	cis-1,2-Dichloroethylene	50	53.9	108	75-124
10061-01-5	cis-1,3-Dichloropropene	50	55.3	111	72-120

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1573-BS	G0040960.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-1, F44814-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	50	46.8	94	50-150 [a]
541-73-1	m-Dichlorobenzene	50	56.5	113	79-119
95-50-1	o-Dichlorobenzene	50	55.7	111	78-119
106-46-7	p-Dichlorobenzene	50	57.4	115	78-117
156-60-5	trans-1,2-Dichloroethylene	50	55.6	111	70-122
10061-02-6	trans-1,3-Dichloropropene	50	56.9	114	75-118
100-41-4	Ethylbenzene	50	54.4	109	77-120
97-63-2	Ethyl methacrylate	50	47.5	95	50-150 [a]
76-13-1	Freon 113	50	58.2	116	66-147
591-78-6	2-Hexanone	250	232	93	68-136
87-68-3	Hexachlorobutadiene	50	59.1	118	69-139
110-54-3	Hexane	50	57.7	115	55-166
98-82-8	Isopropylbenzene	50	58.7	117	79-134
99-87-6	p-Isopropyltoluene	50	58.4	117	80-134
108-10-1	4-Methyl-2-pentanone	250	231	92	69-136
126-98-7	Methacrylonitrile	500	488	98	50-150 [a]
74-83-9	Methyl bromide	50	51.7	103	52-156
74-87-3	Methyl chloride	50	58.2	116	63-142
74-88-4	Methyl iodide	50	53.0	106	65-133
80-62-6	Methyl methacrylate	50	46.4	93	63-143
74-95-3	Methylene bromide	50	52.3	105	74-121
75-09-2	Methylene chloride	50	57.1	114	51-142
78-93-3	Methyl ethyl ketone	250	233	93	63-138
1634-04-4	Methyl Tert Butyl Ether	50	50.7	101	77-131
91-20-3	Naphthalene	50	52.3	105	75-134
76-01-7	Pentachloroethane	50	55.1	110	50-150 [a]
107-12-0	Propionitrile	500	496	99	50-150 [a]
103-65-1	n-Propylbenzene	50	56.5	113	77-125
100-42-5	Styrene	50	53.6	107	74-120
630-20-6	1,1,1,2-Tetrachloroethane	50	52.7	105	76-118
71-55-6	1,1,1-Trichloroethane	50	58.3	117	70-131
79-34-5	1,1,2,2-Tetrachloroethane	50	51.8	104	76-121
79-00-5	1,1,2-Trichloroethane	50	50.0	100	77-118
87-61-6	1,2,3-Trichlorobenzene	50	56.5	113	76-129
96-18-4	1,2,3-Trichloropropane	50	52.3	105	75-121
120-82-1	1,2,4-Trichlorobenzene	50	56.3	113	73-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1573-BS	G0040960.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-1, F44814-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	50	55.1	110	79-121
108-67-8	1,3,5-Trimethylbenzene	50	56.2	112	78-126
127-18-4	Tetrachloroethylene	50	53.9	108	68-127
108-88-3	Toluene	50	54.0	108	74-118
79-01-6	Trichloroethylene	50	57.9	116	72-122
75-69-4	Trichlorofluoromethane	50	54.9	110	60-147
110-57-6	Trans-1,4-Dichloro-2-Butene	50	50.9	102	68-131
75-01-4	Vinyl chloride	50	45.4	91	64-144
108-05-4	Vinyl Acetate	250	354	142*	47-132
	m,p-Xylene	100	112	112	79-122
95-47-6	o-Xylene	50	54.7	109	75-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	78-123%
2037-26-5	Toluene-D8	97%	71-137%
460-00-4	4-Bromofluorobenzene	96%	61-157%
17060-07-0	1,2-Dichloroethane-D4	98%	74-125%

(a) Advisory control limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1574-BS	G0040989.D	1	11/03/06	SH	n/a	n/a	VG1574

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	245	98	51-136
75-05-8	Acetonitrile	500	482	96	50-150 [a]
107-02-8	Acrolein	250	393	157	28-180
107-13-1	Acrylonitrile	250	277	111	43-151
107-05-1	Allyl chloride	50	43.4	87	50-150 [a]
71-43-2	Benzene	50	49.7	99	74-124
100-44-7	Benzyl Chloride	50	49.9	100	50-150 [a]
108-86-1	Bromobenzene	50	47.9	96	78-117
74-97-5	Bromochloromethane	50	49.4	99	77-126
75-27-4	Bromodichloromethane	50	47.7	95	74-124
75-25-2	Bromoform	50	48.2	96	79-127
104-51-8	n-Butylbenzene	50	52.5	105	75-131
135-98-8	sec-Butylbenzene	50	51.1	102	78-128
98-06-6	tert-Butylbenzene	50	49.2	98	76-126
108-90-7	Chlorobenzene	50	50.1	100	78-117
75-00-3	Chloroethane	50	59.2	118	63-147
67-66-3	Chloroform	50	51.5	103	75-121
544-10-5	1-Chlorohexane	50	50.3	101	76-137
95-49-8	o-Chlorotoluene	50	47.8	96	79-124
106-43-4	p-Chlorotoluene	50	49.0	98	79-124
110-75-8	2-Chloroethyl vinyl ether	250	259	104	31-165
75-15-0	Carbon disulfide	50	51.6	103	59-148
56-23-5	Carbon tetrachloride	50	50.6	101	67-131
75-34-3	1,1-Dichloroethane	50	50.2	100	71-118
75-35-4	1,1-Dichloroethylene	50	49.5	99	64-126
563-58-6	1,1-Dichloropropene	50	50.8	102	73-132
96-12-8	1,2-Dibromo-3-chloropropane	50	46.8	94	71-128
106-93-4	1,2-Dibromoethane	50	49.9	100	78-117
107-06-2	1,2-Dichloroethane	50	50.1	100	72-120
78-87-5	1,2-Dichloropropane	50	49.6	99	74-126
142-28-9	1,3-Dichloropropane	50	47.0	94	77-117
594-20-7	2,2-Dichloropropane	50	52.7	105	66-126
124-48-1	Dibromochloromethane	50	46.8	94	78-120
75-71-8	Dichlorodifluoromethane	50	41.5	83	33-172
156-59-2	cis-1,2-Dichloroethylene	50	47.6	95	75-124
10061-01-5	cis-1,3-Dichloropropene	50	51.6	103	72-120

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1574-BS	G0040989.D	1	11/03/06	SH	n/a	n/a	VG1574

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	50	48.4	97	50-150 [a]
541-73-1	m-Dichlorobenzene	50	49.7	99	79-119
95-50-1	o-Dichlorobenzene	50	49.9	100	78-119
106-46-7	p-Dichlorobenzene	50	50.0	100	78-117
156-60-5	trans-1,2-Dichloroethylene	50	49.7	99	70-122
10061-02-6	trans-1,3-Dichloropropene	50	52.9	106	75-118
100-41-4	Ethylbenzene	50	48.0	96	77-120
97-63-2	Ethyl methacrylate	50	47.3	95	50-150 [a]
76-13-1	Freon 113	50	51.7	103	66-147
591-78-6	2-Hexanone	250	234	94	68-136
87-68-3	Hexachlorobutadiene	50	48.7	97	69-139
110-54-3	Hexane	50	48.4	97	55-166
98-82-8	Isopropylbenzene	50	51.9	104	79-134
99-87-6	p-Isopropyltoluene	50	50.5	101	80-134
108-10-1	4-Methyl-2-pentanone	250	235	94	69-136
126-98-7	Methacrylonitrile	500	508	102	50-150 [a]
74-83-9	Methyl bromide	50	46.7	93	52-156
74-87-3	Methyl chloride	50	64.3	129	63-142
74-88-4	Methyl iodide	50	48.7	97	65-133
80-62-6	Methyl methacrylate	50	46.6	93	63-143
74-95-3	Methylene bromide	50	50.0	100	74-121
75-09-2	Methylene chloride	50	51.1	102	51-142
78-93-3	Methyl ethyl ketone	250	241	96	63-138
1634-04-4	Methyl Tert Butyl Ether	50	49.2	98	77-131
91-20-3	Naphthalene	50	47.5	95	75-134
76-01-7	Pentachloroethane	50	52.3	105	50-150 [a]
107-12-0	Propionitrile	500	522	104	50-150 [a]
103-65-1	n-Propylbenzene	50	49.2	98	77-125
100-42-5	Styrene	50	48.9	98	74-120
630-20-6	1,1,1,2-Tetrachloroethane	50	48.2	96	76-118
71-55-6	1,1,1-Trichloroethane	50	51.4	103	70-131
79-34-5	1,1,2,2-Tetrachloroethane	50	50.9	102	76-121
79-00-5	1,1,2-Trichloroethane	50	47.4	95	77-118
87-61-6	1,2,3-Trichlorobenzene	50	48.4	97	76-129
96-18-4	1,2,3-Trichloropropane	50	52.1	104	75-121
120-82-1	1,2,4-Trichlorobenzene	50	49.2	98	73-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1574-BS	G0040989.D	1	11/03/06	SH	n/a	n/a	VG1574

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	50	49.4	99	79-121
108-67-8	1,3,5-Trimethylbenzene	50	49.0	98	78-126
127-18-4	Tetrachloroethylene	50	47.8	96	68-127
108-88-3	Toluene	50	48.0	96	74-118
79-01-6	Trichloroethylene	50	52.2	104	72-122
75-69-4	Trichlorofluoromethane	50	50.9	102	60-147
110-57-6	Trans-1,4-Dichloro-2-Butene	50	51.3	103	68-131
75-01-4	Vinyl chloride	50	47.1	94	64-144
108-05-4	Vinyl Acetate	250	360	144*	47-132
	m,p-Xylene	100	99.1	99	79-122
95-47-6	o-Xylene	50	48.7	97	75-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	78-123%
2037-26-5	Toluene-D8	97%	71-137%
460-00-4	4-Bromofluorobenzene	93%	61-157%
17060-07-0	1,2-Dichloroethane-D4	102%	74-125%

(a) Advisory control limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1069-BS	J026069.D	1	11/13/06	AB	n/a	n/a	VJ1069

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-3, F44814-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	101	81	44-142
75-05-8	Acetonitrile	250	195	78	50-150 [a]
107-02-8	Acrolein	125	105	84	32-168
107-13-1	Acrylonitrile	125	116	93	35-130
107-05-1	Allyl chloride	25	16.8	67	50-150 [a]
71-43-2	Benzene	25	26.7	107	80-120
100-44-7	Benzyl Chloride	25	23.7	95	50-150 [a]
108-86-1	Bromobenzene	25	26.2	105	76-114
74-97-5	Bromochloromethane	25	23.9	96	75-121
75-27-4	Bromodichloromethane	25	24.0	96	75-120
75-25-2	Bromoform	25	24.3	97	60-129
104-51-8	n-Butylbenzene	25	27.2	109	76-122
135-98-8	sec-Butylbenzene	25	27.7	111	84-122
98-06-6	tert-Butylbenzene	25	27.0	108	77-124
108-90-7	Chlorobenzene	25	25.7	103	82-112
75-00-3	Chloroethane	25	32.4	130	67-148
67-66-3	Chloroform	25	25.7	103	78-118
544-10-5	1-Chlorohexane	25	28.1	112	82-130
95-49-8	o-Chlorotoluene	25	26.1	104	80-121
106-43-4	p-Chlorotoluene	25	26.9	108	78-120
110-75-8	2-Chloroethyl vinyl ether	125	127	102	23-132
75-15-0	Carbon disulfide	25	27.1	108	65-147
56-23-5	Carbon tetrachloride	25	26.6	106	69-137
75-34-3	1,1-Dichloroethane	25	26.1	104	75-117
75-35-4	1,1-Dichloroethylene	25	25.7	103	67-134
563-58-6	1,1-Dichloropropene	25	26.7	107	84-127
96-12-8	1,2-Dibromo-3-chloropropane	25	21.9	88	54-125
106-93-4	1,2-Dibromoethane	25	24.7	99	68-116
107-06-2	1,2-Dichloroethane	25	24.3	97	68-121
78-87-5	1,2-Dichloropropane	25	26.0	104	78-122
142-28-9	1,3-Dichloropropane	25	24.2	97	72-116
594-20-7	2,2-Dichloropropane	25	26.1	104	68-134
124-48-1	Dibromochloromethane	25	24.3	97	68-118
75-71-8	Dichlorodifluoromethane	25	25.0	100	43-173
156-59-2	cis-1,2-Dichloroethylene	25	24.7	99	81-120
10061-01-5	cis-1,3-Dichloropropene	25	25.6	102	73-115

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1069-BS	J026069.D	1	11/13/06	AB	n/a	n/a	VJ1069

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-3, F44814-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	25	20.0	80	50-150 [a]
541-73-1	m-Dichlorobenzene	25	26.3	105	78-116
95-50-1	o-Dichlorobenzene	25	26.1	104	77-115
106-46-7	p-Dichlorobenzene	25	25.8	103	77-113
156-60-5	trans-1,2-Dichloroethylene	25	25.7	103	74-125
10061-02-6	trans-1,3-Dichloropropene	25	26.6	106	69-115
100-41-4	Ethylbenzene	25	25.3	101	82-115
97-63-2	Ethyl methacrylate	25	22.4	90	50-150 [a]
76-13-1	Freon 113	25	26.6	106	72-148
591-78-6	2-Hexanone	125	116	93	60-125
87-68-3	Hexachlorobutadiene	25	28.4	114	62-138
110-54-3	Hexane	25	25.7	103	70-148
98-82-8	Isopropylbenzene	25	27.9	112	83-129
99-87-6	p-Isopropyltoluene	25	27.2	109	85-125
108-10-1	4-Methyl-2-pentanone	125	116	93	61-128
126-98-7	Methacrylonitrile	250	205	82	50-150 [a]
74-83-9	Methyl bromide	25	27.0	108	60-165
74-87-3	Methyl chloride	25	35.3	141	58-152
74-88-4	Methyl iodide	25	25.7	103	61-140
80-62-6	Methyl methacrylate	25	20.8	83	71-128
74-95-3	Methylene bromide	25	24.9	100	75-114
75-09-2	Methylene chloride	25	23.0	92	66-125
78-93-3	Methyl ethyl ketone	125	109	87	58-127
1634-04-4	Methyl Tert Butyl Ether	25	23.9	96	67-127
91-20-3	Naphthalene	25	22.7	91	62-129
76-01-7	Pentachloroethane	25	25.2	101	50-150 [a]
107-12-0	Propionitrile	250	230	92	50-150 [a]
103-65-1	n-Propylbenzene	25	27.2	109	80-122
100-42-5	Styrene	25	26.5	106	58-125
630-20-6	1,1,1,2-Tetrachloroethane	25	25.0	100	73-118
71-55-6	1,1,1-Trichloroethane	25	26.5	106	78-132
79-34-5	1,1,2,2-Tetrachloroethane	25	24.6	98	67-119
79-00-5	1,1,2-Trichloroethane	25	24.2	97	74-115
87-61-6	1,2,3-Trichlorobenzene	25	25.0	100	65-125
96-18-4	1,2,3-Trichloropropane	25	25.2	101	68-114
120-82-1	1,2,4-Trichlorobenzene	25	26.0	104	66-122

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1069-BS	J026069.D	1	11/13/06	AB	n/a	n/a	VJ1069

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-3, F44814-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	25	26.3	105	77-119
108-67-8	1,3,5-Trimethylbenzene	25	27.1	108	81-120
127-18-4	Tetrachloroethylene	25	27.5	110	75-126
108-88-3	Toluene	25	25.7	103	81-114
79-01-6	Trichloroethylene	25	25.4	102	80-115
75-69-4	Trichlorofluoromethane	25	25.4	102	65-163
110-57-6	Trans-1,4-Dichloro-2-Butene	25	21.6	86	38-130
75-01-4	Vinyl chloride	25	28.5	114	70-151
108-05-4	Vinyl Acetate	125	121	97	42-146
	m,p-Xylene	50	52.5	105	83-118
95-47-6	o-Xylene	25	26.1	104	77-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	86-115%
17060-07-0	1,2-Dichloroethane-D4	98%	73-126%
2037-26-5	Toluene-D8	98%	86-112%
460-00-4	4-Bromofluorobenzene	100%	83-119%

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44735-2MS	G0040964.D	1	11/02/06	SH	n/a	n/a	VG1573
F44735-2MSD	G0040965.D	1	11/02/06	SH	n/a	n/a	VG1573
F44735-2	G0040962.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-1, F44814-5

CAS No.	Compound	F44735-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		339	209	62	348	253	73	19	14-140/33
75-05-8	Acetonitrile	ND		677	366	54	696	424	61	15	50-150/30 [a]
107-02-8	Acrolein	ND		339	706	208*	348	758	218*	7	20-144/42
107-13-1	Acrylonitrile	ND		339	245	72	348	280	80	13	22-116/31
107-05-1	Allyl chloride	ND		67.7	58.5	86	69.6	61.7	89	5	50-150/30 [a]
71-43-2	Benzene	ND		67.7	68.0	100	69.6	74.6	107	9	63-135/23
100-44-7	Benzyl Chloride	ND		67.7	51.5	76	69.6	55.9	80	8	50-150/30 [a]
108-86-1	Bromobenzene	ND		67.7	64.4	95	69.6	76.2	109	17	56-145/30
74-97-5	Bromochloromethane	ND		67.7	58.5	86	69.6	65.5	94	11	64-120/23
75-27-4	Bromodichloromethane	ND		67.7	62.7	93	69.6	68.6	99	9	63-126/23
75-25-2	Bromoform	ND		67.7	53.8	79	69.6	59.0	85	9	54-109/24
104-51-8	n-Butylbenzene	ND		67.7	72.5	107	69.6	83.6	120	14	45-159/32
135-98-8	sec-Butylbenzene	ND		67.7	73.7	109	69.6	81.3	117	10	54-164/31
98-06-6	tert-Butylbenzene	ND		67.7	69.9	103	69.6	79.2	114	12	60-161/30
108-90-7	Chlorobenzene	ND		67.7	67.8	100	69.6	72.7	104	7	64-130/24
75-00-3	Chloroethane	ND		67.7	78.0	115	69.6	87.7	126	12	53-172/28
67-66-3	Chloroform	ND		67.7	69.5	103	69.6	75.6	109	8	68-131/24
544-10-5	1-Chlorohexane	ND		67.7	72.8	107	69.6	77.0	111	6	52-162/26
95-49-8	o-Chlorotoluene	ND		67.7	66.6	98	69.6	76.3	110	14	59-162/32
106-43-4	p-Chlorotoluene	ND		67.7	68.4	101	69.6	77.1	111	12	59-155/29
110-75-8	2-Chloroethyl vinyl ether	ND		339	276	81	348	309	89	11	16-159/31
75-15-0	Carbon disulfide	ND		67.7	71.3	105	69.6	79.2	114	10	47-165/29
56-23-5	Carbon tetrachloride	ND		67.7	70.9	105	69.6	75.1	108	6	64-148/24
75-34-3	1,1-Dichloroethane	ND		67.7	69.6	103	69.6	75.4	108	8	64-130/25
75-35-4	1,1-Dichloroethylene	ND		67.7	68.4	101	69.6	74.1	106	8	55-149/28
563-58-6	1,1-Dichloropropene	ND		67.7	71.9	106	69.6	77.1	111	7	67-148/25
96-12-8	1,2-Dibromo-3-chloropropane	ND		67.7	45.5	67	69.6	52.0	75	13	39-105/33
106-93-4	1,2-Dibromoethane	ND		67.7	54.9	81	69.6	60.0	86	9	55-107/24
107-06-2	1,2-Dichloroethane	ND		67.7	59.9	88	69.6	66.0	95	10	60-114/22
78-87-5	1,2-Dichloropropane	ND		67.7	63.7	94	69.6	72.1	104	12	65-128/23
142-28-9	1,3-Dichloropropane	ND		67.7	56.0	83	69.6	61.3	88	9	58-114/25
594-20-7	2,2-Dichloropropane	ND		67.7	70.5	104	69.6	73.3	105	4	60-144/27
124-48-1	Dibromochloromethane	ND		67.7	57.8	85	69.6	61.9	89	7	60-119/23
75-71-8	Dichlorodifluoromethane	ND		67.7	38.7	57	69.6	43.4	62	11	41-185/30
156-59-2	cis-1,2-Dichloroethylene	ND		67.7	65.5	97	69.6	69.3	100	6	66-132/24
10061-01-5	cis-1,3-Dichloropropene	ND		67.7	64.0	94	69.6	70.8	102	10	57-118/25

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44735-2MS	G0040964.D	1	11/02/06	SH	n/a	n/a	VG1573
F44735-2MSD	G0040965.D	1	11/02/06	SH	n/a	n/a	VG1573
F44735-2	G0040962.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-1, F44814-5

CAS No.	Compound	F44735-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	ND		67.7	48.3	71	69.6	57.2	82	17	50-150/30 [a]
541-73-1	m-Dichlorobenzene	ND		67.7	69.7	103	69.6	77.5	111	11	59-138/28
95-50-1	o-Dichlorobenzene	ND		67.7	66.3	98	69.6	75.6	109	13	56-128/27
106-46-7	p-Dichlorobenzene	ND		67.7	69.4	102	69.6	79.0	113	13	57-134/26
156-60-5	trans-1,2-Dichloroethylene	ND		67.7	69.0	102	69.6	74.4	107	8	63-137/27
10061-02-6	trans-1,3-Dichloropropene	ND		67.7	65.2	96	69.6	70.1	101	7	58-115/25
100-41-4	Ethylbenzene	ND		67.7	67.6	100	69.6	71.9	103	6	63-142/25
97-63-2	Ethyl methacrylate	ND		67.7	49.7	73	69.6	55.7	80	11	50-150/30 [a]
76-13-1	Freon 113	ND		67.7	70.6	104	69.6	78.4	113	10	61-169/28
591-78-6	2-Hexanone	ND		339	225	66	348	253	73	12	35-109/34
87-68-3	Hexachlorobutadiene	ND		67.7	71.7	106	69.6	79.0	113	10	17-160/37
110-54-3	Hexane	ND		67.7	67.2	99	69.6	73.1	105	8	28-170/32
98-82-8	Isopropylbenzene	ND		67.7	72.3	107	69.6	76.8	110	6	59-177/29
99-87-6	p-Isopropyltoluene	ND		67.7	71.1	105	69.6	79.5	114	11	53-168/31
108-10-1	4-Methyl-2-pentanone	ND		339	234	69	348	257	74	9	44-99/32
126-98-7	Methacrylonitrile	ND		677	480	71	696	551	79	14	50-150/30 [a]
74-83-9	Methyl bromide	ND		67.7	83.0	123	69.6	86.1	124	4	38-188/27
74-87-3	Methyl chloride	ND		67.7	70.0	103	69.6	76.9	110	9	57-160/29
74-88-4	Methyl iodide	ND		67.7	64.1	95	69.6	72.1	104	12	52-150/30
80-62-6	Methyl methacrylate	ND		67.7	47.8	71	69.6	55.0	79	14	56-106/27
74-95-3	Methylene bromide	ND		67.7	58.5	86	69.6	64.2	92	9	56-109/24
75-09-2	Methylene chloride	10.4	J	67.7	73.6	93	69.6	80.6	101	9	40-183/34
78-93-3	Methyl ethyl ketone	ND		339	212	63	348	249	72	16	27-112/32
1634-04-4	Methyl Tert Butyl Ether	ND		67.7	54.9	81	69.6	61.9	89	12	53-122/28
91-20-3	Naphthalene	ND		67.7	52.7	78	69.6	61.4	88	15	20-116/35
76-01-7	Pentachloroethane	ND		67.7	63.1	93	69.6	70.3	101	11	50-150/30 [a]
107-12-0	Propionitrile	ND		677	461	68	696	522	75	12	50-150/30 [a]
103-65-1	n-Propylbenzene	ND		67.7	69.8	103	69.6	80.7	116	14	59-163/31
100-42-5	Styrene	ND		67.7	64.9	96	69.6	69.4	100	7	54-130/26
630-20-6	1,1,1,2-Tetrachloroethane	ND		67.7	64.7	96	69.6	70.0	101	8	64-131/24
71-55-6	1,1,1-Trichloroethane	ND		67.7	72.2	107	69.6	77.2	111	7	70-149/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		67.7	53.0	78	69.6	63.1	91	17	45-121/33
79-00-5	1,1,2-Trichloroethane	ND		67.7	55.9	83	69.6	60.9	87	9	60-114/25
87-61-6	1,2,3-Trichlorobenzene	ND		67.7	63.4	94	69.6	71.4	103	12	24-135/31
96-18-4	1,2,3-Trichloropropane	ND		67.7	53.9	80	69.6	62.0	89	14	39-125/32
120-82-1	1,2,4-Trichlorobenzene	ND		67.7	66.7	98	69.6	74.9	108	12	23-142/31

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44735-2MS	G0040964.D	1	11/02/06	SH	n/a	n/a	VG1573
F44735-2MSD	G0040965.D	1	11/02/06	SH	n/a	n/a	VG1573
F44735-2	G0040962.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-1, F44814-5

CAS No.	Compound	F44735-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	ND		67.7	69.6	103	69.6	78.2	112	12	50-161/32
108-67-8	1,3,5-Trimethylbenzene	ND		67.7	70.4	104	69.6	79.7	114	12	57-164/31
127-18-4	Tetrachloroethylene	ND		67.7	72.6	107	69.6	78.6	113	8	54-154/27
108-88-3	Toluene	ND		67.7	68.0	100	69.6	73.2	105	7	62-142/29
79-01-6	Trichloroethylene	ND		67.7	69.6	103	69.6	76.2	109	9	59-143/25
75-69-4	Trichlorofluoromethane	ND		67.7	68.0	100	69.6	76.2	109	11	59-171/28
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		67.7	52.6	78	69.6	62.1	89	17	41-114/31
75-01-4	Vinyl chloride	ND		67.7	55.0	81	69.6	62.3	90	12	64-165/27
108-05-4	Vinyl Acetate	ND		339	331	98	348	361	104	9	13-113/42
	m,p-Xylene	ND		135	140	103	139	149	107	6	61-146/25
95-47-6	o-Xylene	ND		67.7	67.4	99	69.6	72.3	104	7	60-141/25

CAS No.	Surrogate Recoveries	MS	MSD	F44735-2	Limits
1868-53-7	Dibromofluoromethane	101%	99%	99%	78-123%
2037-26-5	Toluene-D8	99%	97%	93%	71-137%
460-00-4	4-Bromofluorobenzene	94%	98%	95%	61-157%
17060-07-0	1,2-Dichloroethane-D4	95%	89%	95%	74-125%

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44814-2MS	G0040992.D	1	11/03/06	SH	n/a	n/a	VG1574
F44814-2MSD	G0040993.D	1	11/03/06	SH	n/a	n/a	VG1574
F44814-2	G0040991.D	1	11/03/06	SH	n/a	n/a	VG1574

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-2

CAS No.	Compound	F44814-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		263	148	56	256	166	65	11	14-140/33
75-05-8	Acetonitrile	ND		525	281	54	512	289	56	3	50-150/30 [a]
107-02-8	Acrolein	ND		263	626	238*	256	611	239*	2	20-144/42
107-13-1	Acrylonitrile	ND		263	178	68	256	186	73	4	22-116/31
107-05-1	Allyl chloride	ND		52.5	46.5	89	51.2	46.4	91	0	50-150/30 [a]
71-43-2	Benzene	ND		52.5	54.3	103	51.2	53.6	105	1	63-135/23
100-44-7	Benzyl Chloride	ND		52.5	38.8	74	51.2	38.4	75	1	50-150/30 [a]
108-86-1	Bromobenzene	ND		52.5	54.0	103	51.2	51.7	101	4	56-145/30
74-97-5	Bromochloromethane	ND		52.5	45.6	87	51.2	46.3	90	2	64-120/23
75-27-4	Bromodichloromethane	ND		52.5	48.9	93	51.2	47.6	93	3	63-126/23
75-25-2	Bromoform	ND		52.5	41.0	78	51.2	41.2	81	0	54-109/24
104-51-8	n-Butylbenzene	ND		52.5	59.6	114	51.2	58.1	114	3	45-159/32
135-98-8	sec-Butylbenzene	ND		52.5	60.0	114	51.2	57.8	113	4	54-164/31
98-06-6	tert-Butylbenzene	ND		52.5	56.7	108	51.2	56.1	110	1	60-161/30
108-90-7	Chlorobenzene	ND		52.5	56.5	108	51.2	53.9	105	5	64-130/24
75-00-3	Chloroethane	ND		52.5	66.3	126	51.2	65.1	127	2	53-172/28
67-66-3	Chloroform	ND		52.5	54.8	104	51.2	54.5	106	1	68-131/24
544-10-5	1-Chlorohexane	ND		52.5	59.3	113	51.2	60.0	117	1	52-162/26
95-49-8	o-Chlorotoluene	ND		52.5	55.2	105	51.2	53.1	104	4	59-162/32
106-43-4	p-Chlorotoluene	ND		52.5	56.8	108	51.2	54.6	107	4	59-155/29
110-75-8	2-Chloroethyl vinyl ether	ND		263	199	76	256	207	81	4	16-159/31
75-15-0	Carbon disulfide	ND		52.5	58.1	111	51.2	57.5	112	1	47-165/29
56-23-5	Carbon tetrachloride	ND		52.5	56.7	108	51.2	56.2	110	1	64-148/24
75-34-3	1,1-Dichloroethane	ND		52.5	53.9	103	51.2	54.0	106	0	64-130/25
75-35-4	1,1-Dichloroethylene	ND		52.5	55.4	106	51.2	53.1	104	4	55-149/28
563-58-6	1,1-Dichloropropene	ND		52.5	56.2	107	51.2	56.8	111	1	67-148/25
96-12-8	1,2-Dibromo-3-chloropropane	ND		52.5	32.4	62	51.2	34.9	68	7	39-105/33
106-93-4	1,2-Dibromoethane	ND		52.5	42.6	81	51.2	43.1	84	1	55-107/24
107-06-2	1,2-Dichloroethane	ND		52.5	44.7	85	51.2	45.8	89	2	60-114/22
78-87-5	1,2-Dichloropropane	ND		52.5	50.9	97	51.2	49.9	98	2	65-128/23
142-28-9	1,3-Dichloropropane	ND		52.5	43.6	83	51.2	43.6	85	0	58-114/25
594-20-7	2,2-Dichloropropane	ND		52.5	56.9	108	51.2	56.9	111	0	60-144/27
124-48-1	Dibromochloromethane	ND		52.5	45.7	87	51.2	45.0	88	2	60-119/23
75-71-8	Dichlorodifluoromethane	ND		52.5	45.6	87	51.2	45.5	89	0	41-185/30
156-59-2	cis-1,2-Dichloroethylene	ND		52.5	50.5	96	51.2	50.0	98	1	66-132/24
10061-01-5	cis-1,3-Dichloropropene	ND		52.5	49.6	94	51.2	49.3	96	1	57-118/25

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44814-2MS	G0040992.D	1	11/03/06	SH	n/a	n/a	VG1574
F44814-2MSD	G0040993.D	1	11/03/06	SH	n/a	n/a	VG1574
F44814-2	G0040991.D	1	11/03/06	SH	n/a	n/a	VG1574

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-2

CAS No.	Compound	F44814-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	ND		52.5	37.4	71	51.2	37.8	74	1	50-150/30 [a]
541-73-1	m-Dichlorobenzene	ND		52.5	56.0	107	51.2	54.7	107	2	59-138/28
95-50-1	o-Dichlorobenzene	ND		52.5	53.4	102	51.2	52.3	102	2	56-128/27
106-46-7	p-Dichlorobenzene	ND		52.5	57.1	109	51.2	55.5	108	3	57-134/26
156-60-5	trans-1,2-Dichloroethylene	ND		52.5	54.1	103	51.2	53.9	105	0	63-137/27
10061-02-6	trans-1,3-Dichloropropene	ND		52.5	50.9	97	51.2	50.0	98	2	58-115/25
100-41-4	Ethylbenzene	ND		52.5	55.5	106	51.2	54.1	106	3	63-142/25
97-63-2	Ethyl methacrylate	ND		52.5	37.9	72	51.2	38.4	75	1	50-150/30 [a]
76-13-1	Freon 113	ND		52.5	56.7	108	51.2	56.1	110	1	61-169/28
591-78-6	2-Hexanone	ND		263	153	58	256	164	64	7	35-109/34
87-68-3	Hexachlorobutadiene	ND		52.5	52.9	101	51.2	51.8	101	2	17-160/37
110-54-3	Hexane	ND		52.5	51.5	98	51.2	51.9	101	1	28-170/32
98-82-8	Isopropylbenzene	ND		52.5	59.8	114	51.2	59.6	116	0	59-177/29
99-87-6	p-Isopropyltoluene	ND		52.5	59.4	113	51.2	56.7	111	5	53-168/31
108-10-1	4-Methyl-2-pentanone	ND		263	162	62	256	169	66	4	44-99/32
126-98-7	Methacrylonitrile	ND		525	341	65	512	358	70	5	50-150/30 [a]
74-83-9	Methyl bromide	ND		52.5	77.4	147	51.2	68.9	135	12	38-188/27
74-87-3	Methyl chloride	ND		52.5	69.6	133	51.2	67.7	132	3	57-160/29
74-88-4	Methyl iodide	ND		52.5	52.1	99	51.2	51.6	101	1	52-150/30
80-62-6	Methyl methacrylate	ND		52.5	32.9	63	51.2	35.3	69	7	56-106/27
74-95-3	Methylene bromide	ND		52.5	43.9	84	51.2	44.2	86	1	56-109/24
75-09-2	Methylene chloride	ND		52.5	51.6	98	51.2	52.5	103	2	40-183/34
78-93-3	Methyl ethyl ketone	ND		263	143	54	256	152	59	6	27-112/32
1634-04-4	Methyl Tert Butyl Ether	ND		52.5	40.2	77	51.2	41.6	81	3	53-122/28
91-20-3	Naphthalene	ND		52.5	40.5	77	51.2	41.2	81	2	20-116/35
76-01-7	Pentachloroethane	ND		52.5	55.2	105	51.2	51.2	100	8	50-150/30 [a]
107-12-0	Propionitrile	ND		525	316	60	512	343	67	8	50-150/30 [a]
103-65-1	n-Propylbenzene	ND		52.5	58.5	111	51.2	56.4	110	4	59-163/31
100-42-5	Styrene	ND		52.5	54.0	103	51.2	52.2	102	3	54-130/26
630-20-6	1,1,1,2-Tetrachloroethane	ND		52.5	52.5	100	51.2	52.9	103	1	64-131/24
71-55-6	1,1,1-Trichloroethane	ND		52.5	56.8	108	51.2	56.1	110	1	70-149/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		52.5	39.8	76	51.2	40.6	79	2	45-121/33
79-00-5	1,1,2-Trichloroethane	ND		52.5	43.7	83	51.2	43.8	86	0	60-114/25
87-61-6	1,2,3-Trichlorobenzene	ND		52.5	49.7	95	51.2	48.5	95	2	24-135/31
96-18-4	1,2,3-Trichloropropane	ND		52.5	39.3	75	51.2	39.6	77	1	39-125/32
120-82-1	1,2,4-Trichlorobenzene	ND		52.5	52.8	101	51.2	52.4	102	1	23-142/31

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44814-2MS	G0040992.D	1	11/03/06	SH	n/a	n/a	VG1574
F44814-2MSD	G0040993.D	1	11/03/06	SH	n/a	n/a	VG1574
F44814-2	G0040991.D	1	11/03/06	SH	n/a	n/a	VG1574

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-2

CAS No.	Compound	F44814-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	ND		52.5	58.4	111	51.2	55.5	108	5	50-161/32
108-67-8	1,3,5-Trimethylbenzene	ND		52.5	58.2	111	51.2	56.3	110	3	57-164/31
127-18-4	Tetrachloroethylene	ND		52.5	57.0	109	51.2	57.7	113	1	54-154/27
108-88-3	Toluene	ND		52.5	56.6	108	51.2	55.3	108	2	62-142/29
79-01-6	Trichloroethylene	ND		52.5	57.4	109	51.2	55.3	108	4	59-143/25
75-69-4	Trichlorofluoromethane	ND		52.5	58.0	110	51.2	56.1	110	3	59-171/28
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		52.5	37.5	71	51.2	38.6	75	3	41-114/31
75-01-4	Vinyl chloride	ND		52.5	52.3	100	51.2	51.2	100	2	64-165/27
108-05-4	Vinyl Acetate	ND		263	260	99	256	260	102	0	13-113/42
	m,p-Xylene	ND		105	115	110	102	112	109	3	61-146/25
95-47-6	o-Xylene	ND		52.5	54.9	105	51.2	54.9	107	0	60-141/25

CAS No.	Surrogate Recoveries	MS	MSD	F44814-2	Limits
1868-53-7	Dibromofluoromethane	96%	97%	102%	78-123%
2037-26-5	Toluene-D8	101%	101%	92%	71-137%
460-00-4	4-Bromofluorobenzene	93%	93%	92%	61-157%
17060-07-0	1,2-Dichloroethane-D4	88%	83%	95%	74-125%

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44907-1MS	J026072.D	50	11/13/06	AB	n/a	n/a	VJ1069
F44907-1MSD	J026073.D	50	11/13/06	AB	n/a	n/a	VJ1069
F44907-1	J026071.D	50	11/13/06	AB	n/a	n/a	VJ1069

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-3, F44814-4

CAS No.	Compound	F44907-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		6250	4700	75	6250	5000	80	6	45-127/15
75-05-8	Acetonitrile	ND		12500	9660	77	12500	10400	83	7	50-150/30 [a]
107-02-8	Acrolein	ND		6250	5670	91	6250	5460	87	4	26-185/18
107-13-1	Acrylonitrile	ND		6250	5270	84	6250	5670	91	7	39-140/12
107-05-1	Allyl chloride	ND		1250	812	65	1250	790	63	3	50-150/30 [a]
71-43-2	Benzene	1620		1250	2940	106	1250	2900	102	1	72-125/7
100-44-7	Benzyl Chloride	ND		1250	1180	94	1250	1190	95	1	50-150/30 [a]
108-86-1	Bromobenzene	ND		1250	1230	98	1250	1250	100	2	72-113/10
74-97-5	Bromochloromethane	ND		1250	1180	94	1250	1170	94	1	73-121/9
75-27-4	Bromodichloromethane	ND		1250	1210	97	1250	1210	97	0	72-120/8
75-25-2	Bromoform	ND		1250	1210	97	1250	1250	100	3	55-127/11
104-51-8	n-Butylbenzene	43.2	J	1250	1450	113	1250	1410	109	3	69-122/10
135-98-8	sec-Butylbenzene	ND		1250	1420	114	1250	1380	110	3	75-125/9
98-06-6	tert-Butylbenzene	ND		1250	1350	108	1250	1330	106	1	70-125/12
108-90-7	Chlorobenzene	ND		1250	1320	106	1250	1300	104	2	79-113/7
75-00-3	Chloroethane	ND		1250	1560	125	1250	1560	125	0	56-164/14
67-66-3	Chloroform	ND		1250	1300	104	1250	1280	102	2	75-120/8
544-10-5	1-Chlorohexane	ND		1250	1460	117	1250	1470	118	1	77-127/9
95-49-8	o-Chlorotoluene	ND		1250	1290	103	1250	1260	101	2	76-122/9
106-43-4	p-Chlorotoluene	ND		1250	1510	121*	1250	1470	118	3	73-120/9
110-75-8	2-Chloroethyl vinyl ether	ND		6250	5920	95	6250	6060	97	2	8-137/18
75-15-0	Carbon disulfide	ND		1250	1340	107	1250	1290	103	4	60-151/12
56-23-5	Carbon tetrachloride	ND		1250	1340	107	1250	1320	106	2	56-145/12
75-34-3	1,1-Dichloroethane	ND		1250	1320	106	1250	1290	103	2	70-122/10
75-35-4	1,1-Dichloroethylene	ND		1250	1290	103	1250	1260	101	2	61-137/15
563-58-6	1,1-Dichloropropene	ND		1250	1330	106	1250	1310	105	2	80-126/9
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	1120	90	1250	1180	94	5	49-127/18
106-93-4	1,2-Dibromoethane	ND		1250	1280	102	1250	1290	103	1	67-113/10
107-06-2	1,2-Dichloroethane	ND		1250	1240	99	1250	1230	98	1	64-124/7
78-87-5	1,2-Dichloropropane	ND		1250	1300	104	1250	1300	104	0	74-123/8
142-28-9	1,3-Dichloropropane	ND		1250	1290	103	1250	1290	103	0	70-116/8
594-20-7	2,2-Dichloropropane	ND		1250	1310	105	1250	1280	102	2	64-133/13
124-48-1	Dibromochloromethane	ND		1250	1250	100	1250	1270	102	2	63-119/9
75-71-8	Dichlorodifluoromethane	ND		1250	1270	102	1250	1260	101	1	35-184/21
156-59-2	cis-1,2-Dichloroethylene	ND		1250	1220	98	1250	1220	98	0	74-125/9
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1280	102	1250	1280	102	0	65-112/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44907-1MS	J026072.D	50	11/13/06	AB	n/a	n/a	VJ1069
F44907-1MSD	J026073.D	50	11/13/06	AB	n/a	n/a	VJ1069
F44907-1	J026071.D	50	11/13/06	AB	n/a	n/a	VJ1069

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-3, F44814-4

CAS No.	Compound	F44907-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	ND		1250	1030	82	1250	1040	83	1	50-150/30 [a]
541-73-1	m-Dichlorobenzene	ND		1250	1350	108	1250	1330	106	1	74-114/7
95-50-1	o-Dichlorobenzene	ND		1250	1300	104	1250	1300	104	0	73-114/8
106-46-7	p-Dichlorobenzene	ND		1250	1280	102	1250	1290	103	1	74-112/7
156-60-5	trans-1,2-Dichloroethylene	ND		1250	1290	103	1250	1270	102	2	70-127/11
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1410	113	1250	1380	110	2	59-116/11
100-41-4	Ethylbenzene	1890		1250	3150	101	1250	3070	94	3	73-119/8
97-63-2	Ethyl methacrylate	ND		1250	1170	94	1250	1220	98	4	50-150/30 [a]
76-13-1	Freon 113	ND		1250	1330	106	1250	1300	104	2	67-151/14
591-78-6	2-Hexanone	ND		6250	5970	96	6250	6320	101	6	54-131/11
87-68-3	Hexachlorobutadiene	ND		1250	1400	112	1250	1380	110	1	52-133/13
110-54-3	Hexane	ND		1250	1590	127	1250	1580	126	1	62-153/12
98-82-8	Isopropylbenzene	138		1250	1590	116	1250	1560	114	2	79-127/8
99-87-6	p-Isopropyltoluene	ND		1250	1400	112	1250	1370	110	2	77-126/8
108-10-1	4-Methyl-2-pentanone	ND		6250	6080	97	6250	6340	101	4	57-136/11
126-98-7	Methacrylonitrile	ND		12500	10100	81	12500	10500	84	4	50-150/30 [a]
74-83-9	Methyl bromide	ND		1250	1280	102	1250	1270	102	1	52-172/16
74-87-3	Methyl chloride	ND		1250	1760	141	1250	1690	135	4	53-155/19
74-88-4	Methyl iodide	ND		1250	1250	100	1250	1240	99	1	52-141/12
80-62-6	Methyl methacrylate	ND		1250	1030	82	1250	1070	86	4	76-115/11
74-95-3	Methylene bromide	ND		1250	1240	99	1250	1270	102	2	73-115/9
75-09-2	Methylene chloride	ND		1250	1180	94	1250	1150	92	3	61-129/11
78-93-3	Methyl ethyl ketone	ND		6250	5340	85	6250	5720	92	7	51-128/10
1634-04-4	Methyl Tert Butyl Ether	1890		1250	2910	82	1250	3000	89	3	61-129/9
91-20-3	Naphthalene	789		1250	2010	98	1250	2100	105	4	52-127/13
76-01-7	Pentachloroethane	ND		1250	1200	96	1250	1200	96	0	50-150/30 [a]
107-12-0	Propionitrile	ND		12500	11000	88	12500	11800	94	7	50-150/30 [a]
103-65-1	n-Propylbenzene	398		1250	1710	105	1250	1680	103	2	73-123/10
100-42-5	Styrene	ND		1250	1380	110	1250	1370	110	1	64-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		1250	1320	106	1250	1300	104	2	69-118/8
71-55-6	1,1,1-Trichloroethane	ND		1250	1330	106	1250	1300	104	2	72-133/8
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1100	88	1250	1150	92	4	64-120/10
79-00-5	1,1,2-Trichloroethane	ND		1250	1250	100	1250	1270	102	2	72-116/9
87-61-6	1,2,3-Trichlorobenzene	ND		1250	1270	102	1250	1300	104	2	58-121/12
96-18-4	1,2,3-Trichloropropane	ND		1250	1180	94	1250	1260	101	7	63-116/13
120-82-1	1,2,4-Trichlorobenzene	ND		1250	1350	108	1250	1360	109	1	58-120/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44907-1MS	J026072.D	50	11/13/06	AB	n/a	n/a	VJ1069
F44907-1MSD	J026073.D	50	11/13/06	AB	n/a	n/a	VJ1069
F44907-1	J026071.D	50	11/13/06	AB	n/a	n/a	VJ1069

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44814-3, F44814-4

CAS No.	Compound	F44907-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	3870		1250	4730	69	1250	4680	65* b	1	68-122/10
108-67-8	1,3,5-Trimethylbenzene	1070		1250	2290	98	1250	2270	96	1	70-125/9
127-18-4	Tetrachloroethylene	ND		1250	1420	114	1250	1410	113	1	70-126/9
108-88-3	Toluene	1770		1250	3090	106	1250	3020	100	2	67-123/8
79-01-6	Trichloroethylene	ND		1250	1300	104	1250	1300	104	0	73-117/10
75-69-4	Trichlorofluoromethane	ND		1250	1290	103	1250	1280	102	1	52-164/16
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		1250	993	79	1250	995	80	0	27-131/22
75-01-4	Vinyl chloride	ND		1250	1320	106	1250	1270	102	4	63-161/18
108-05-4	Vinyl Acetate	ND		6250	5700	91	6250	5800	93	2	37-154/10
	m,p-Xylene	6930		2500	9340	96	2500	9130	88	2	74-123/7
95-47-6	o-Xylene	3330		1250	4640	105	1250	4570	99	2	68-123/7

CAS No.	Surrogate Recoveries	MS	MSD	F44907-1	Limits
1868-53-7	Dibromofluoromethane	99%	100%	103%	86-115%
17060-07-0	1,2-Dichloroethane-D4	99%	100%	100%	73-126%
2037-26-5	Toluene-D8	103%	102%	97%	86-112%
460-00-4	4-Bromofluorobenzene	99%	99%	100%	83-119%

(a) Advisory control limits.
(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18327-MB	L034494.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
92-87-5	Benzidine	ND	25	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	4.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18327-MB	L034494.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-3

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	10	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	10	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	29%	19-90%
4165-62-2	Phenol-d5	18%	10-68%

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18327-MB	L034494.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-3

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	58%	36-137%
4165-60-0	Nitrobenzene-d5	55%	49-119%
321-60-8	2-Fluorobiphenyl	52%	45-118%
1718-51-0	Terphenyl-d14	77%	46-135%

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18426-MB	L034656.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-1, F44814-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	330	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	830	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18426-MB	L034656.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-1, F44814-2

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
88-74-4	2-Nitroaniline	ND	330	83	ug/kg	
99-09-2	3-Nitroaniline	ND	330	83	ug/kg	
100-01-6	4-Nitroaniline	ND	330	120	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	76%	45-114%
4165-62-2	Phenol-d5	79%	44-124%

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18426-MB	L034656.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-1, F44814-2

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	77%	50-128%
4165-60-0	Nitrobenzene-d5	73%	41-123%
321-60-8	2-Fluorobiphenyl	72%	46-122%
1718-51-0	Terphenyl-d14	82%	45-135%

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18426-MB	L034721.D	1	11/09/06	NJ	11/07/06	OP18426	SL1783

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-1, F44814-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	330	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	830	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18426-MB	L034721.D	1	11/09/06	NJ	11/07/06	OP18426	SL1783

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-1, F44814-2

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
88-74-4	2-Nitroaniline	ND	330	83	ug/kg	
99-09-2	3-Nitroaniline	ND	330	83	ug/kg	
100-01-6	4-Nitroaniline	ND	330	120	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	76%	45-114%
4165-62-2	Phenol-d5	77%	44-124%

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18426-MB	L034721.D	1	11/09/06	NJ	11/07/06	OP18426	SL1783

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-1, F44814-2

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	79%	50-128%
4165-60-0	Nitrobenzene-d5	74%	41-123%
321-60-8	2-Fluorobiphenyl	73%	46-122%
1718-51-0	Terphenyl-d14	84%	45-135%

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18327-BS	L034493.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	32.7	33	10-50
95-57-8	2-Chlorophenol	50	35.1	70	57-100
59-50-7	4-Chloro-3-methyl phenol	50	37.7	75	63-105
120-83-2	2,4-Dichlorophenol	50	36.2	72	65-106
105-67-9	2,4-Dimethylphenol	50	30.4	61	49-90
51-28-5	2,4-Dinitrophenol	100	77.5	78	26-125
534-52-1	4,6-Dinitro-o-cresol	100	90.2	90	56-121
95-48-7	2-Methylphenol	50	29.2	58	48-90
	3&4-Methylphenol	100	57.1	57	43-94
88-75-5	2-Nitrophenol	50	36.9	74	62-107
100-02-7	4-Nitrophenol	100	36.4	36	19-66
87-86-5	Pentachlorophenol	100	92.4	92	62-120
108-95-2	Phenol	50	13.7	27	20-65
95-95-4	2,4,5-Trichlorophenol	50	38.8	78	67-103
88-06-2	2,4,6-Trichlorophenol	50	39.1	78	68-104
83-32-9	Acenaphthene	50	38.4	77	67-101
208-96-8	Acenaphthylene	50	38.6	77	65-100
120-12-7	Anthracene	50	41.3	83	71-103
92-87-5	Benzidine	50	31.3	63	21-101
56-55-3	Benzo(a)anthracene	50	41.1	82	71-105
50-32-8	Benzo(a)pyrene	50	41.0	82	67-106
205-99-2	Benzo(b)fluoranthene	50	41.9	84	68-108
191-24-2	Benzo(g,h,i)perylene	50	39.6	79	65-110
207-08-9	Benzo(k)fluoranthene	50	42.3	85	69-110
101-55-3	4-Bromophenyl phenyl ether	50	40.4	81	71-106
85-68-7	Butyl benzyl phthalate	50	41.4	83	66-110
100-51-6	Benzyl Alcohol	50	24.6	49	36-101
91-58-7	2-Chloronaphthalene	50	38.7	77	62-99
106-47-8	4-Chloroaniline	50	37.0	74	58-101
218-01-9	Chrysene	50	41.3	83	71-105
111-91-1	bis(2-Chloroethoxy)methane	50	33.9	68	56-101
111-44-4	bis(2-Chloroethyl)ether	50	37.7	75	60-108
108-60-1	bis(2-Chloroisopropyl)ether	50	34.9	70	49-108
7005-72-3	4-Chlorophenyl phenyl ether	50	40.8	82	69-106
95-50-1	1,2-Dichlorobenzene	50	32.9	66	48-98
541-73-1	1,3-Dichlorobenzene	50	31.4	63	44-95

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18327-BS	L034493.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-46-7	1,4-Dichlorobenzene	50	31.8	64	46-96
121-14-2	2,4-Dinitrotoluene	50	41.4	83	64-107
606-20-2	2,6-Dinitrotoluene	50	39.3	79	64-102
91-94-1	3,3'-Dichlorobenzidine	50	38.7	77	54-109
53-70-3	Dibenzo(a,h)anthracene	50	40.2	80	61-112
132-64-9	Dibenzofuran	50	40.5	81	70-102
84-74-2	Di-n-butyl phthalate	50	42.6	85	69-109
117-84-0	Di-n-octyl phthalate	50	45.4	91	63-125
84-66-2	Diethyl phthalate	50	41.6	83	66-111
131-11-3	Dimethyl phthalate	50	41.3	83	66-109
117-81-7	bis(2-Ethylhexyl)phthalate	50	41.3	83	66-114
206-44-0	Fluoranthene	50	44.1	88	71-108
86-73-7	Fluorene	50	40.9	82	68-102
118-74-1	Hexachlorobenzene	50	38.4	77	69-103
87-68-3	Hexachlorobutadiene	50	33.2	66	48-100
77-47-4	Hexachlorocyclopentadiene	50	30.9	62	20-85
67-72-1	Hexachloroethane	50	30.9	62	41-98
193-39-5	Indeno(1,2,3-cd)pyrene	50	40.6	81	66-112
78-59-1	Isophorone	50	39.6	79	62-105
91-57-6	2-Methylnaphthalene	50	39.4	79	62-105
88-74-4	2-Nitroaniline	50	41.9	84	66-105
99-09-2	3-Nitroaniline	50	40.8	82	56-104
100-01-6	4-Nitroaniline	50	43.7	87	62-110
91-20-3	Naphthalene	50	35.0	70	56-99
98-95-3	Nitrobenzene	50	34.8	70	60-102
621-64-7	N-Nitroso-di-n-propylamine	50	35.8	72	56-101
86-30-6	N-Nitrosodiphenylamine	50	38.7	77	69-106
85-01-8	Phenanthrene	50	41.6	83	71-104
129-00-0	Pyrene	50	40.4	81	67-108
120-82-1	1,2,4-Trichlorobenzene	50	34.3	69	52-99

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	43%	19-90%
4165-62-2	Phenol-d5	26%	10-68%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18327-BS	L034493.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-3

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	77%	36-137%
4165-60-0	Nitrobenzene-d5	69%	49-119%
321-60-8	2-Fluorobiphenyl	71%	45-118%
1718-51-0	Terphenyl-d14	79%	46-135%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18426-BS	L034655.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-1, F44814-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	3330	2500	75	48-121
95-57-8	2-Chlorophenol	1670	1180	71	61-101
59-50-7	4-Chloro-3-methyl phenol	1670	1180	71	63-107
120-83-2	2,4-Dichlorophenol	1670	1210	73	65-106
105-67-9	2,4-Dimethylphenol	1670	1020	61	53-96
51-28-5	2,4-Dinitrophenol	3330	1980	59	42-122
534-52-1	4,6-Dinitro-o-cresol	3330	2590	78	60-122
95-48-7	2-Methylphenol	1670	1120	67	58-98
	3&4-Methylphenol	3330	2310	69	58-99
88-75-5	2-Nitrophenol	1670	1170	70	59-103
100-02-7	4-Nitrophenol	3330	2310	69	66-111
87-86-5	Pentachlorophenol	3330	2200	66	58-120
108-95-2	Phenol	1670	1310	79	59-104
95-95-4	2,4,5-Trichlorophenol	1670	1230	74	65-105
88-06-2	2,4,6-Trichlorophenol	1670	1200	72	66-106
83-32-9	Acenaphthene	1670	1170	70	63-100
208-96-8	Acenaphthylene	1670	1170	70	62-100
120-12-7	Anthracene	1670	1240	74	67-104
56-55-3	Benzo(a)anthracene	1670	1250	75	66-107
50-32-8	Benzo(a)pyrene	1670	1240	74	63-106
205-99-2	Benzo(b)fluoranthene	1670	1250	75	65-110
191-24-2	Benzo(g,h,i)perylene	1670	1220	73	60-107
207-08-9	Benzo(k)fluoranthene	1670	1260	76	66-111
101-55-3	4-Bromophenyl phenyl ether	1670	1210	73	66-108
85-68-7	Butyl benzyl phthalate	1670	1250	75	62-112
100-51-6	Benzyl Alcohol	1670	1120	67	60-103
91-58-7	2-Chloronaphthalene	1670	1150	69	62-98
106-47-8	4-Chloroaniline	1670	785	47	20-87
218-01-9	Chrysene	1670	1270	76	66-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1070	64	54-98
111-44-4	bis(2-Chloroethyl)ether	1670	1130	68	57-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1080	65	48-102
7005-72-3	4-Chlorophenyl phenyl ether	1670	1160	70	65-106
95-50-1	1,2-Dichlorobenzene	1670	1100	66	50-97
541-73-1	1,3-Dichlorobenzene	1670	1060	64	46-94
106-46-7	1,4-Dichlorobenzene	1670	1050	63	47-95

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18426-BS	L034655.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-1, F44814-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1190	71	60-107
606-20-2	2,6-Dinitrotoluene	1670	1140	68	59-103
91-94-1	3,3'-Dichlorobenzidine	1670	840	50	32-91
53-70-3	Dibenzo(a,h)anthracene	1670	1180	71	59-108
132-64-9	Dibenzofuran	1670	1150	69	64-103
84-74-2	Di-n-butyl phthalate	1670	1180	71	64-109
117-84-0	Di-n-octyl phthalate	1670	1300	78	64-123
84-66-2	Diethyl phthalate	1670	1220	73	61-112
131-11-3	Dimethyl phthalate	1670	1180	71	63-107
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1240	74	62-114
206-44-0	Fluoranthene	1670	1230	74	64-110
86-73-7	Fluorene	1670	1200	72	63-102
118-74-1	Hexachlorobenzene	1670	1150	69	64-104
87-68-3	Hexachlorobutadiene	1670	1060	64	56-99
77-47-4	Hexachlorocyclopentadiene	1670	1070	64	32-93
67-72-1	Hexachloroethane	1670	1020	61	47-96
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1210	73	60-110
78-59-1	Isophorone	1670	1180	71	60-100
91-57-6	2-Methylnaphthalene	1670	1160	70	60-104
88-74-4	2-Nitroaniline	1670	1150	69	61-105
99-09-2	3-Nitroaniline	1670	912	55	34-84
100-01-6	4-Nitroaniline	1670	1140	68	53-105
91-20-3	Naphthalene	1670	1120	67	58-96
98-95-3	Nitrobenzene	1670	1110	67	58-98
621-64-7	N-Nitroso-di-n-propylamine	1670	1090	65	54-95
86-30-6	N-Nitrosodiphenylamine	1670	1180	71	66-106
85-01-8	Phenanthrene	1670	1220	73	66-105
129-00-0	Pyrene	1670	1310	79	66-109
120-82-1	1,2,4-Trichlorobenzene	1670	1100	66	58-97

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	68%	45-114%
4165-62-2	Phenol-d5	70%	44-124%
118-79-6	2,4,6-Tribromophenol	70%	50-128%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18426-BS	L034655.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-1, F44814-2

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	63%	41-123%
321-60-8	2-Fluorobiphenyl	63%	46-122%
1718-51-0	Terphenyl-d14	71%	45-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18327-MS	L034497.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774
OP18327-MSD	L034498.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774
F44781-2	L034496.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-3

CAS No.	Compound	F44781-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		200	109	55	200	102	51	7	10-80/45
95-57-8	2-Chlorophenol	ND		100	57.3	57	100	49.6	50	14	43-109/27
59-50-7	4-Chloro-3-methyl phenol	ND		100	71.8	72	100	64.8	65	10	57-109/20
120-83-2	2,4-Dichlorophenol	ND		100	62.5	63	100	55.5	56	12	49-114/23
105-67-9	2,4-Dimethylphenol	ND		100	51.2	51	100	44.9	45	13	32-103/24
51-28-5	2,4-Dinitrophenol	ND		200	52.3	26	200	54.2	27	4	20-131/28
534-52-1	4,6-Dinitro-o-cresol	ND		200	141	71	200	117	59	19	46-130/23
95-48-7	2-Methylphenol	ND		100	57.0	57	100	45.3	45	23	40-102/25
	3&4-Methylphenol	ND		200	107	54	200	95.6	48	11	39-97/24
88-75-5	2-Nitrophenol	ND		100	59.9	60	100	51.7	52	15	46-115/26
100-02-7	4-Nitrophenol	ND		200	95.2	48	200	96.1	48	1	28-81/30
87-86-5	Pentachlorophenol	ND		200	33.8	17*	200	ND	0*	200*	53-128/22
108-95-2	Phenol	ND		100	31.1	31	100	29.1	29	7	19-81/33
95-95-4	2,4,5-Trichlorophenol	ND		100	72.6	73	100	61.4	61	17	56-110/19
88-06-2	2,4,6-Trichlorophenol	ND		100	69.0	69	100	60.9	61	12	55-112/19
83-32-9	Acenaphthene	ND		100	69.3	69	100	60.5	61	14	58-109/18
208-96-8	Acenaphthylene	ND		100	69.8	70	100	61.0	61	13	59-103/18
120-12-7	Anthracene	ND		100	80.0	80	100	75.1	75	6	65-108/16
92-87-5	Benzidine	ND		100	40.4	40	100	134	134*	107*	11-98/21
56-55-3	Benzo(a)anthracene	ND		100	80.1	80	100	75.5	76	6	68-106/17
50-32-8	Benzo(a)pyrene	ND		100	77.3	77	100	72.7	73	6	61-108/18
205-99-2	Benzo(b)fluoranthene	ND		100	82.1	82	100	79.0	79	4	65-109/18
191-24-2	Benzo(g,h,i)perylene	ND		100	76.9	77	100	70.8	71	8	60-114/19
207-08-9	Benzo(k)fluoranthene	ND		100	78.7	79	100	71.8	72	9	66-111/17
101-55-3	4-Bromophenyl phenyl ether	ND		100	75.9	76	100	66.9	67*	13	68-108/17
85-68-7	Butyl benzyl phthalate	ND		100	82.3	82	100	73.5	74	11	64-111/18
100-51-6	Benzyl Alcohol	ND		100	46.3	46	100	87.5	88	62*	44-105/26
91-58-7	2-Chloronaphthalene	ND		100	63.7	64	100	55.7	56*	13	57-102/20
106-47-8	4-Chloroaniline	ND		100	62.3	62	100	117	117*	61*	37-106/27
218-01-9	Chrysene	ND		100	79.2	79	100	73.2	73	8	69-106/17
111-91-1	bis(2-Chloroethoxy)methane	ND		100	56.8	57	100	48.4	48	16	46-106/24
111-44-4	bis(2-Chloroethyl)ether	ND		100	60.9	61	100	47.7	48	24	48-114/28
108-60-1	bis(2-Chloroisopropyl)ether	ND		100	54.0	54	100	48.3	48	11	43-110/26
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	74.8	75	100	66.3	66	12	66-107/17
95-50-1	1,2-Dichlorobenzene	ND		100	55.0	55	100	49.6	50	10	45-103/24
541-73-1	1,3-Dichlorobenzene	ND		100	53.4	53	100	47.0	47	13	42-100/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18327-MS	L034497.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774
OP18327-MSD	L034498.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774
F44781-2	L034496.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-3

CAS No.	Compound	F44781-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		100	54.1	54	100	49.0	49	10	43-102/24
121-14-2	2,4-Dinitrotoluene	ND		100	80.8	81	100	73.6	74	9	60-108/18
606-20-2	2,6-Dinitrotoluene	ND		100	72.4	72	100	67.4	67	7	59-105/18
91-94-1	3,3'-Dichlorobenzidine	ND		100	77.9	78	100	160	160*	69*	21-120/24
53-70-3	Dibenzo(a,h)anthracene	ND		100	78.4	78	100	71.1	71	10	59-112/18
132-64-9	Dibenzofuran	ND		100	72.7	73	100	142	142*	65*	65-105/17
84-74-2	Di-n-butyl phthalate	ND		100	79.1	79	100	73.2	73	8	68-109/18
117-84-0	Di-n-octyl phthalate	ND		100	89.0	89	100	82.0	82	8	59-127/23
84-66-2	Diethyl phthalate	ND		100	78.1	78	100	73.0	73	7	64-111/18
131-11-3	Dimethyl phthalate	ND		100	76.0	76	100	71.4	71	6	63-109/17
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	81.6	82	100	73.1	73	11	58-119/21
206-44-0	Fluoranthene	ND		100	83.0	83	100	77.5	78	7	68-110/18
86-73-7	Fluorene	ND		100	74.5	75	100	68.1	68	9	62-106/17
118-74-1	Hexachlorobenzene	ND		100	74.6	75	100	67.8	68	10	66-106/16
87-68-3	Hexachlorobutadiene	ND		100	57.7	58	100	51.2	51	12	46-107/26
77-47-4	Hexachlorocyclopentadiene	ND		100	43.3	43	100	40.1	40	8	16-84/31
67-72-1	Hexachloroethane	ND		100	54.1	54	100	47.1	47	14	39-105/25
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	78.5	79	100	72.2	72	8	61-115/19
78-59-1	Isophorone	ND		100	68.8	69	100	59.3	59	15	54-107/22
91-57-6	2-Methylnaphthalene	ND		100	65.9	66	100	128	128*	64*	53-112/22
88-74-4	2-Nitroaniline	ND		100	74.7	75	100	156	156*	70*	60-108/18
99-09-2	3-Nitroaniline	ND		100	73.0	73	100	156	156*	72*	43-103/23
100-01-6	4-Nitroaniline	ND		100	82.6	83	100	172	172*	70*	55-110/19
91-20-3	Naphthalene	ND		100	60.2	60	100	53.2	53	12	49-104/24
98-95-3	Nitrobenzene	ND		100	59.0	59	100	53.6	54	10	50-107/25
621-64-7	N-Nitroso-di-n-propylamine	ND		100	59.4	59	100	50.8	51	16	47-104/23
86-30-6	N-Nitrosodiphenylamine	ND		100	74.9	75	100	69.2	69	8	63-110/17
85-01-8	Phenanthrene	ND		100	79.7	80	100	73.0	73	9	67-108/17
129-00-0	Pyrene	ND		100	80.6	81	100	74.8	75	7	65-108/18
120-82-1	1,2,4-Trichlorobenzene	ND		100	58.6	59	100	50.6	51	15	49-104/25

CAS No.	Surrogate Recoveries	MS	MSD	F44781-2	Limits
367-12-4	2-Fluorophenol	42%	43%	23%	19-90%
4165-62-2	Phenol-d5	32%	31%	14%	10-68%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18327-MS	L034497.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774
OP18327-MSD	L034498.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774
F44781-2	L034496.D	1	10/30/06	NJ	10/30/06	OP18327	SL1774

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-3

CAS No.	Surrogate Recoveries	MS	MSD	F44781-2	Limits
118-79-6	2,4,6-Tribromophenol	72%	71%	70%	36-137%
4165-60-0	Nitrobenzene-d5	57%	56%	64%	49-119%
321-60-8	2-Fluorobiphenyl	60%	57%	62%	45-118%
1718-51-0	Terphenyl-d14	76%	77%	81%	46-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18426-MS	L034667.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781
OP18426-MSD	L034668.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781
F44814-2	L034666.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-1, F44814-2

CAS No.	Compound	F44814-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		3870	1820	47	3900	1930	49	6	10-124/35
95-57-8	2-Chlorophenol	ND		1930	1140	59	1950	1130	58	1	46-99/28
59-50-7	4-Chloro-3-methyl phenol	ND		1930	1260	65	1950	1380	71	9	51-106/24
120-83-2	2,4-Dichlorophenol	ND		1930	1240	64	1950	1240	64	0	51-105/24
105-67-9	2,4-Dimethylphenol	ND		1930	1030	53	1950	983	50	5	47-95/27
51-28-5	2,4-Dinitrophenol	ND		3870	1540	40	3900	1580	40	3	10-114/50
534-52-1	4,6-Dinitro-o-cresol	ND		3870	2580	67	3900	2690	69	4	11-120/39
95-48-7	2-Methylphenol	ND		1930	1160	60	1950	1150	59	1	48-96/26
	3&4-Methylphenol	ND		3870	2270	59	3900	2290	59	1	50-95/26
88-75-5	2-Nitrophenol	ND		1930	1180	61	1950	1160	59	2	36-109/29
100-02-7	4-Nitrophenol	ND		3870	2470	64	3900	2650	68	7	50-107/25
87-86-5	Pentachlorophenol	ND		3870	2360	61	3900	2410	62	2	45-118/30
108-95-2	Phenol	ND		1930	1230	64	1950	1250	64	2	44-105/27
95-95-4	2,4,5-Trichlorophenol	ND		1930	1290	67	1950	1340	69	4	58-101/23
88-06-2	2,4,6-Trichlorophenol	ND		1930	1260	65	1950	1320	68	5	56-103/23
83-32-9	Acenaphthene	ND		1930	1210	63	1950	1270	65	5	47-106/28
208-96-8	Acenaphthylene	ND		1930	1240	64	1950	1280	66	3	48-102/24
120-12-7	Anthracene	ND		1930	1350	70	1950	1420	73	5	52-108/26
92-87-5	Benzidine	ND		1930	ND	0*	1950	ND	0*	nc	10-151/50
56-55-3	Benzo(a)anthracene	ND		1930	1390	72	1950	1480	76	6	54-106/26
50-32-8	Benzo(a)pyrene	ND		1930	1350	70	1950	1430	73	6	53-104/25
205-99-2	Benzo(b)fluoranthene	ND		1930	1350	70	1950	1410	72	4	53-109/27
191-24-2	Benzo(g,h,i)perylene	ND		1930	1360	70	1950	1410	72	4	53-104/28
207-08-9	Benzo(k)fluoranthene	ND		1930	1380	71	1950	1470	75	6	55-107/29
101-55-3	4-Bromophenyl phenyl ether	ND		1930	1310	68	1950	1360	70	4	59-102/23
85-68-7	Butyl benzyl phthalate	ND		1930	1410	73	1950	1490	76	6	58-105/23
100-51-6	Benzyl Alcohol	ND		1930	1170	61	1950	1150	59	2	52-97/30
91-58-7	2-Chloronaphthalene	ND		1930	1170	61	1950	1210	62	3	54-92/24
106-47-8	4-Chloroaniline	ND		1930	742	38	1950	975	50	27	21-92/35
218-01-9	Chrysene	ND		1930	1410	73	1950	1490	76	6	54-108/26
111-91-1	bis(2-Chloroethoxy)methane	ND		1930	1060	55	1950	1070	55	1	44-94/27
111-44-4	bis(2-Chloroethyl)ether	ND		1930	1090	56	1950	1070	55	2	40-104/30
108-60-1	bis(2-Chloroisopropyl)ether	ND		1930	1020	53	1950	1030	53	1	40-91/29
7005-72-3	4-Chlorophenyl phenyl ether	ND		1930	1270	66	1950	1320	68	4	57-101/22
95-50-1	1,2-Dichlorobenzene	ND		1930	999	52	1950	987	51	1	36-88/34
541-73-1	1,3-Dichlorobenzene	ND		1930	940	49	1950	944	48	0	30-85/33

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18426-MS	L034667.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781
OP18426-MSD	L034668.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781
F44814-2	L034666.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-1, F44814-2

CAS No.	Compound	F44814-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		1930	957	49	1950	986	51	3	30-87/33
121-14-2	2,4-Dinitrotoluene	ND		1930	1290	67	1950	1400	72	8	46-105/28
606-20-2	2,6-Dinitrotoluene	ND		1930	1230	64	1950	1350	69	9	46-102/26
91-94-1	3,3'-Dichlorobenzidine	ND		1930	1250	65	1950	1350	69	8	22-104/35
53-70-3	Dibenzo(a,h)anthracene	ND		1930	1340	69	1950	1370	70	2	53-103/26
132-64-9	Dibenzofuran	ND		1930	1220	63	1950	1250	64	2	53-103/27
84-74-2	Di-n-butyl phthalate	ND		1930	1310	68	1950	1370	70	4	55-104/22
117-84-0	Di-n-octyl phthalate	ND		1930	1490	77	1950	1550	79	4	61-115/24
84-66-2	Diethyl phthalate	ND		1930	1300	67	1950	1370	70	5	54-104/22
131-11-3	Dimethyl phthalate	ND		1930	1270	66	1950	1360	70	7	55-100/22
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1930	1420	73	1950	1480	76	4	56-110/25
206-44-0	Fluoranthene	ND		1930	1370	71	1950	1420	73	4	52-109/28
86-73-7	Fluorene	ND		1930	1260	65	1950	1340	69	6	55-99/26
118-74-1	Hexachlorobenzene	ND		1930	1290	67	1950	1330	68	3	57-99/23
87-68-3	Hexachlorobutadiene	ND		1930	1000	52	1950	1020	52	2	36-97/35
77-47-4	Hexachlorocyclopentadiene	ND		1930	715	37	1950	707	36	1	10-88/50
67-72-1	Hexachloroethane	ND		1930	842	44	1950	871	45	3	22-90/41
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1930	1350	70	1950	1410	72	4	53-108/29
78-59-1	Isophorone	ND		1930	1180	61	1950	1200	61	2	46-99/26
91-57-6	2-Methylnaphthalene	ND		1930	1200	62	1950	1140	58	5	45-104/28
88-74-4	2-Nitroaniline	ND		1930	1280	66	1950	1350	69	5	51-104/23
99-09-2	3-Nitroaniline	ND		1930	1130	58	1950	1280	66	12	30-94/31
100-01-6	4-Nitroaniline	ND		1930	1270	66	1950	1390	71	9	39-100/27
91-20-3	Naphthalene	ND		1930	1100	57	1950	1110	57	1	44-94/31
98-95-3	Nitrobenzene	ND		1930	1110	57	1950	1060	54	5	43-97/29
621-64-7	N-Nitroso-di-n-propylamine	ND		1930	1070	55	1950	1070	55	0	40-98/27
86-30-6	N-Nitrosodiphenylamine	ND		1930	1280	66	1950	1360	70	6	55-104/22
85-01-8	Phenanthrene	ND		1930	1350	70	1950	1400	72	4	53-106/26
129-00-0	Pyrene	ND		1930	1450	75	1950	1520	78	5	55-111/30
120-82-1	1,2,4-Trichlorobenzene	ND		1930	1060	55	1950	1070	55	1	41-95/32

CAS No.	Surrogate Recoveries	MS	MSD	F44814-2	Limits
367-12-4	2-Fluorophenol	56%	57%	51%	45-114%
4165-62-2	Phenol-d5	59%	61%	56%	44-124%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18426-MS	L034667.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781
OP18426-MSD	L034668.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781
F44814-2	L034666.D	1	11/07/06	NJ	11/07/06	OP18426	SL1781

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44814-1, F44814-2

CAS No.	Surrogate Recoveries	MS	MSD	F44814-2	Limits
118-79-6	2,4,6-Tribromophenol	64%	72%	63%	50-128%
4165-60-0	Nitrobenzene-d5	55%	56%	53%	41-123%
321-60-8	2-Fluorobiphenyl	55%	59%	54%	46-122%
1718-51-0	Terphenyl-d14	68%	76%	63%	45-135%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18355-MB	TT03024.D	1	11/05/06	SKW	10/31/06	OP18355	GTT110

The QC reported here applies to the following samples: **Method:** SW846 8081A

F44814-3

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.050	0.020	ug/l	
319-84-6	alpha-BHC	ND	0.050	0.015	ug/l	
319-85-7	beta-BHC	ND	0.050	0.020	ug/l	
319-86-8	delta-BHC	ND	0.050	0.020	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.050	0.015	ug/l	
5103-71-9	alpha-Chlordane	ND	0.050	0.015	ug/l	
5103-74-2	gamma-Chlordane	ND	0.050	0.015	ug/l	
60-57-1	Dieldrin	ND	0.050	0.015	ug/l	
72-54-8	4,4'-DDD	ND	0.10	0.020	ug/l	
72-55-9	4,4'-DDE	ND	0.10	0.020	ug/l	
50-29-3	4,4'-DDT	ND	0.10	0.020	ug/l	
72-20-8	Endrin	ND	0.10	0.040	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.10	0.020	ug/l	
7421-93-4	Endrin aldehyde	ND	0.10	0.040	ug/l	
53494-70-5	Endrin ketone	ND	0.10	0.020	ug/l	
959-98-8	Endosulfan-I	ND	0.050	0.015	ug/l	
33213-65-9	Endosulfan-II	ND	0.10	0.020	ug/l	
76-44-8	Heptachlor	ND	0.050	0.020	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.050	0.015	ug/l	
72-43-5	Methoxychlor	ND	0.10	0.040	ug/l	
8001-35-2	Toxaphene	ND	2.5	1.3	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	91%	60-138%
2051-24-3	Decachlorobiphenyl	99%	31-148%

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18466-MB	TT03305.D	1	11/12/06	VS	11/09/06	OP18466	GTT117

The QC reported here applies to the following samples: **Method:** SW846 8081A

F44814-1, F44814-2

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.67	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.67	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.67	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.67	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.7	0.67	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.7	0.67	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.67	ug/kg	
72-54-8	4,4'-DDD	ND	3.3	0.67	ug/kg	
72-55-9	4,4'-DDE	ND	3.3	0.67	ug/kg	
50-29-3	4,4'-DDT	ND	3.3	1.0	ug/kg	
72-20-8	Endrin	ND	3.3	0.67	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	1.3	ug/kg	
53494-70-5	Endrin ketone	ND	3.3	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.67	ug/kg	
33213-65-9	Endosulfan-II	ND	3.3	0.67	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.67	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.67	ug/kg	
72-43-5	Methoxychlor	ND	3.3	1.3	ug/kg	
8001-35-2	Toxaphene	ND	83	42	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	78%	60-142%
2051-24-3	Decachlorobiphenyl	87%	61-153%

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18466-MB	TT03349.D	1	11/13/06	VS	11/09/06	OP18466	GTT118

The QC reported here applies to the following samples: **Method:** SW846 8081A

F44814-1, F44814-2

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.67	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.67	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.67	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.67	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.7	0.67	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.7	0.67	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.67	ug/kg	
72-54-8	4,4'-DDD	ND	3.3	0.67	ug/kg	
72-55-9	4,4'-DDE	ND	3.3	0.67	ug/kg	
50-29-3	4,4'-DDT	ND	3.3	1.0	ug/kg	
72-20-8	Endrin	ND	3.3	0.67	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	1.3	ug/kg	
53494-70-5	Endrin ketone	ND	3.3	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.67	ug/kg	
33213-65-9	Endosulfan-II	ND	3.3	0.67	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.67	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.67	ug/kg	
72-43-5	Methoxychlor	ND	3.3	1.3	ug/kg	
8001-35-2	Toxaphene	ND	83	42	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	82%	60-142%
2051-24-3	Decachlorobiphenyl	90%	61-153%

Method Blank Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18466-MB	TT03403.D	1	11/15/06	VS	11/09/06	OP18466	GTT120

The QC reported here applies to the following samples: **Method:** SW846 8081A

F44814-1, F44814-2

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	10	4.0	ug/kg	
319-84-6	alpha-BHC	ND	10	4.0	ug/kg	
319-85-7	beta-BHC	ND	10	4.0	ug/kg	
319-86-8	delta-BHC	ND	10	4.0	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	10	4.0	ug/kg	
5103-71-9	alpha-Chlordane	ND	10	4.0	ug/kg	
5103-74-2	gamma-Chlordane	ND	10	4.0	ug/kg	
60-57-1	Dieldrin	ND	10	4.0	ug/kg	
72-54-8	4,4'-DDD	ND	20	4.0	ug/kg	
72-55-9	4,4'-DDE	ND	20	4.0	ug/kg	
50-29-3	4,4'-DDT	ND	20	6.0	ug/kg	
72-20-8	Endrin	ND	20	4.0	ug/kg	
1031-07-8	Endosulfan sulfate	ND	20	4.0	ug/kg	
7421-93-4	Endrin aldehyde	ND	20	8.0	ug/kg	
53494-70-5	Endrin ketone	ND	20	4.0	ug/kg	
959-98-8	Endosulfan-I	ND	10	4.0	ug/kg	
33213-65-9	Endosulfan-II	ND	20	4.0	ug/kg	
76-44-8	Heptachlor	ND	10	4.0	ug/kg	
1024-57-3	Heptachlor epoxide	ND	10	4.0	ug/kg	
72-43-5	Methoxychlor	ND	20	8.0	ug/kg	
8001-35-2	Toxaphene	ND	500	250	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	78%	60-142%
2051-24-3	Decachlorobiphenyl	87%	61-153%

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18355-BS	TT03023.D	1	11/05/06	SKW	10/31/06	OP18355	GTT110

The QC reported here applies to the following samples: **Method:** SW846 8081A

F44814-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.5	0.47	94	70-127
319-84-6	alpha-BHC	0.5	0.52	104	65-136
319-85-7	beta-BHC	0.5	0.50	100	68-133
319-86-8	delta-BHC	0.5	0.46	92	48-126
58-89-9	gamma-BHC (Lindane)	0.5	0.52	104	69-137
5103-71-9	alpha-Chlordane	0.5	0.51	102	74-127
5103-74-2	gamma-Chlordane	0.5	0.53	106	75-130
60-57-1	Dieldrin	0.5	0.53	106	76-131
72-54-8	4,4'-DDD	0.5	0.54	108	76-140
72-55-9	4,4'-DDE	0.5	0.53	106	73-137
50-29-3	4,4'-DDT	0.5	0.49	98	74-134
72-20-8	Endrin	0.5	0.50	100	78-134
1031-07-8	Endosulfan sulfate	0.5	0.49	98	73-127
7421-93-4	Endrin aldehyde	0.5	0.097	19	5-104
53494-70-5	Endrin ketone	0.5	0.52	104	80-128
959-98-8	Endosulfan-I	0.5	0.51	102	76-128
33213-65-9	Endosulfan-II	0.5	0.54	108	77-131
76-44-8	Heptachlor	0.5	0.50	100	62-137
1024-57-3	Heptachlor epoxide	0.5	0.51	102	74-130
72-43-5	Methoxychlor	0.5	0.48	96	77-131

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	91%	60-138%
2051-24-3	Decachlorobiphenyl	95%	31-148%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18466-BS	TT03304.D	1	11/12/06	VS	11/09/06	OP18466	GTT117

The QC reported here applies to the following samples: **Method:** SW846 8081A

F44814-1, F44814-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	15.8	95	67-130
319-84-6	alpha-BHC	16.7	15.6	94	70-135
319-85-7	beta-BHC	16.7	15.6	94	75-130
319-86-8	delta-BHC	16.7	11.4	68	53-126
58-89-9	gamma-BHC (Lindane)	16.7	15.5	93	73-136
5103-71-9	alpha-Chlordane	16.7	15.9	95	78-129
5103-74-2	gamma-Chlordane	16.7	16.5	99	78-132
60-57-1	Dieldrin	16.7	16.1	97	79-136
72-54-8	4,4'-DDD	16.7	16.3	98	76-142
72-55-9	4,4'-DDE	16.7	16.4	98	78-143
50-29-3	4,4'-DDT	16.7	16.7	100	84-141
72-20-8	Endrin	16.7	17.3	104	79-138
1031-07-8	Endosulfan sulfate	16.7	15.0	90	78-128
7421-93-4	Endrin aldehyde	16.7	13.3	80	5-103
53494-70-5	Endrin ketone	16.7	15.5	93	79-129
959-98-8	Endosulfan-I	16.7	15.3	92	79-128
33213-65-9	Endosulfan-II	16.7	15.7	94	78-132
76-44-8	Heptachlor	16.7	15.6	94	71-136
1024-57-3	Heptachlor epoxide	16.7	15.5	93	76-133
72-43-5	Methoxychlor	16.7	15.5	93	81-137

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	88%	60-142%
2051-24-3	Decachlorobiphenyl	91%	61-153%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18355-MS	TT03029.D	1	11/05/06	SKW	10/31/06	OP18355	GTT110
OP18355-MSD	TT03030.D	1	11/05/06	SKW	10/31/06	OP18355	GTT110
F44745-1	TT03028.D	1	11/05/06	SKW	10/31/06	OP18355	GTT110

The QC reported here applies to the following samples: **Method:** SW846 8081A

F44814-3

CAS No.	Compound	F44745-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		1	0.92	92	1	0.90	90	2	73-135/25
319-84-6	alpha-BHC	ND		1	0.99	99	1	0.96	96	3	75-134/24
319-85-7	beta-BHC	ND		1	0.96	96	1	0.96	96	0	73-141/23
319-86-8	delta-BHC	ND		1	0.86	86	1	0.87	87	1	29-148/32
58-89-9	gamma-BHC (Lindane)	ND		1	1.0	100	1	1.0	100	0	75-140/21
5103-71-9	alpha-Chlordane	ND		1	0.99	99	1	1.0	100	1	73-135/22
5103-74-2	gamma-Chlordane	ND		1	1.0	100	1	1.0	100	0	74-138/26
60-57-1	Dieldrin	ND		1	1.0	100	1	1.0	100	0	74-141/23
72-54-8	4,4'-DDD	ND		1	1.1	110	1	1.1	110	0	81-142/24
72-55-9	4,4'-DDE	ND		1	1.1	110	1	1.1	110	0	77-139/26
50-29-3	4,4'-DDT	ND		1	0.99	99	1	0.97	97	2	65-147/29
72-20-8	Endrin	ND		1	1.0	100	1	0.99	99	1	72-149/21
1031-07-8	Endosulfan sulfate	ND		1	0.98	98	1	0.99	99	1	66-140/31
7421-93-4	Endrin aldehyde	ND		1	0.18	18	1	0.16	16	12	5-113/49
53494-70-5	Endrin ketone	ND		1	1.0	100	1	1.1	110	10	75-138/25
959-98-8	Endosulfan-I	ND		1	1.0	100	1	1.0	100	0	74-139/21
33213-65-9	Endosulfan-II	ND		1	1.0	100	1	1.0	100	0	70-145/25
76-44-8	Heptachlor	ND		1	0.97	97	1	0.96	96	1	74-136/25
1024-57-3	Heptachlor epoxide	ND		1	1.0	100	1	1.0	100	0	75-138/21
72-43-5	Methoxychlor	ND		1	0.94	94	1	0.92	92	2	69-145/27

CAS No.	Surrogate Recoveries	MS	MSD	F44745-1	Limits
877-09-8	Tetrachloro-m-xylene	87%	87%	88%	60-138%
2051-24-3	Decachlorobiphenyl	95%	94%	96%	31-148%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44814
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18466-MS	TT03316.D	1	11/12/06	VS	11/09/06	OP18466	GTT117
OP18466-MSD	TT03317.D	1	11/12/06	VS	11/09/06	OP18466	GTT117
F44814-2	TT03312.D	1	11/12/06	VS	11/09/06	OP18466	GTT117

The QC reported here applies to the following samples: **Method:** SW846 8081A

F44814-1, F44814-2

CAS No.	Compound	F44814-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		20.1	14.5	72	20.2	15.8	78	9	57-142/23
319-84-6	alpha-BHC	ND		20.1	16.1	80	20.2	16.6	82	3	53-147/24
319-85-7	beta-BHC	ND		20.1	16.8	84	20.2	17.1	85	2	58-152/18
319-86-8	delta-BHC	ND		20.1	12.3	61	20.2	12.7	63	3	37-148/23
58-89-9	gamma-BHC (Lindane)	ND		20.1	16.6	83	20.2	17.5	87	5	59-146/21
5103-71-9	alpha-Chlordane	ND		20.1	16.6	83	20.2	16.8	83	1	59-147/21
5103-74-2	gamma-Chlordane	ND		20.1	17.3	86	20.2	17.6	87	2	55-152/20
60-57-1	Dieldrin	ND		20.1	17.1	85	20.2	17.2	85	1	59-142/20
72-54-8	4,4'-DDD	ND		20.1	17.3	86	20.2	17.5	87	1	56-167/25
72-55-9	4,4'-DDE	ND		20.1	17.8	89	20.2	17.8	88	0	58-158/21
50-29-3	4,4'-DDT	ND		20.1	19.0	95	20.2	18.4	91	3	60-157/25
72-20-8	Endrin	ND		20.1	18.1	90	20.2	18.4	91	2	59-153/21
1031-07-8	Endosulfan sulfate	ND		20.1	16.0	80	20.2	16.6	82	4	52-151/24
7421-93-4	Endrin aldehyde	ND		20.1	14.5	72	20.2	14.7	73	1	5-106/50
53494-70-5	Endrin ketone	ND		20.1	16.5	82	20.2	16.8	83	2	44-163/22
959-98-8	Endosulfan-I	ND		20.1	15.8	79	20.2	16.6	82	5	57-145/20
33213-65-9	Endosulfan-II	ND		20.1	16.5	82	20.2	17.2	85	4	52-146/22
76-44-8	Heptachlor	ND		20.1	16.9	84	20.2	17.4	86	3	61-145/24
1024-57-3	Heptachlor epoxide	ND		20.1	16.6	83	20.2	16.6	82	0	58-147/20
72-43-5	Methoxychlor	ND		20.1	16.7	83	20.2	17.4	86	4	58-154/25

CAS No.	Surrogate Recoveries	MS	MSD	F44814-2	Limits
877-09-8	Tetrachloro-m-xylene	80%	83%	91%	60-142%
2051-24-3	Decachlorobiphenyl	82%	83%	90%	61-153%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10594
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 10/30/06 10/30/06

Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Mercury	1.0	.08	.1	0.090	<1.0	-0.011	<1.0

Associated samples MP10594: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10594
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 10/30/06 10/30/06

Metal	F44699-1 Original	DUP	RPD	QC Limits	F44699-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.083	0.0	200.0(a)	0-20	0.083	2.9	3	93.9	80-120

Associated samples MP10594: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10594
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 10/30/06

Metal	F44699-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.083	3.0	3	97.2	3.4	20

Associated samples MP10594: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10594
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 10/30/06

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.0	3	100.0	80-120

Associated samples MP10594: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.3

9

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10603 Methods: SW846 7471A
Matrix Type: SOLID Units: mg/kg

Prep Date: 10/31/06

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.083	.0067	.0067	-0.00083	<0.083

Associated samples MP10603: F44814-1, F44814-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.1
9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10603 Methods: SW846 7471A
Matrix Type: SOLID Units: mg/kg

Prep Date: 10/31/06 10/31/06

Metal	F44814-2 Original	DUP	RPD	QC Limits	F44814-2 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.021	0.016	27.0 (a)	0-20	0.021	0.31	0.29	101.2	80-120

Associated samples MP10603: F44814-1, F44814-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10603 Methods: SW846 7471A
Matrix Type: SOLID Units: mg/kg

Prep Date: 10/31/06

Metal	F44814-2 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.021	0.32	0.3	99.8	3.2	20

Associated samples MP10603: F44814-1, F44814-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

9.2.2

9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10603
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 10/31/06

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	80-120

Associated samples MP10603: F44814-1, F44814-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.3

9

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10617
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:					11/01/06		11/01/06
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	18	18				
Antimony	6.0	3.4	3.4				
Barium	200	.4	.4	0.020	<200	0.080	<200
Beryllium	4.0	.4	.4				
Cadmium	5.0	.2	.3	-0.19	<5.0	0.020	<5.0
Calcium	1000	42	42				
Chromium	10	.6	.6	-0.43	<10	-0.15	<10
Cobalt	50	.6	.6				
Copper	25	.9	1				
Iron	300	12	15				
Lead	5.0	1.7	1.7	3.1	<5.0	3.3	<5.0
Magnesium	5000	4.3	4.3				
Manganese	15	.6	1.5				
Molybdenum	50	1.3	1.6				
Nickel	40	.8	.8				
Potassium	10000	10	100				
Silver	10	.9	.9	-0.14	<10	-0.63	<10
Sodium	10000	500	500				
Thallium	10	2.3	2.9				
Tin	50	3.1	3.8				
Vanadium	50	.6	1.1				
Zinc	20	1.3	1.6				

Associated samples MP10617: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10617
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			11/01/06					11/01/06	
Metal	F44741-8A Original	DUP	RPD	QC Limits	F44741-8A Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Barium	45.9	10.0	128.4(a)	0-20	45.9	2040	2000	99.7	80-120
Beryllium									
Cadmium	0.88	0.0	200.0(a)	0-20	0.88	50.3	50	98.8	80-120
Calcium	anr								
Chromium	5.6	1.8	102.7(a)	0-20	5.6	209	200	101.7	80-120
Cobalt									
Copper	anr								
Iron	anr								
Lead	11.5	2.2	135.8(a)	0-20	11.5	510	500	99.7	80-120
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium	anr								
Silver	0.0	0.0	NC	0-20	0.0	52.0	50	104.0	80-120
Sodium	anr								
Thallium									
Tin									
Vanadium									
Zinc									

Associated samples MP10617: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10617
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/01/06

Metal	F44741-8A Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Barium	45.9	2030	2000	99.2	0.5	20
Beryllium						
Cadmium	0.88	49.7	50	97.6	1.2	20
Calcium	anr					
Chromium	5.6	209	200	101.7	0.0	20
Cobalt						
Copper	anr					
Iron	anr					
Lead	11.5	506	500	98.9	0.8	20
Magnesium						
Manganese	anr					
Molybdenum						
Nickel						
Potassium	anr					
Silver	0.0	52.3	50	104.6	0.6	20
Sodium	anr					
Thallium						
Tin						
Vanadium						
Zinc						

Associated samples MP10617: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10617
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/01/06

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Barium	2060	2000	103.0	80-120
Beryllium				
Cadmium	49.4	50	98.8	80-120
Calcium	anr			
Chromium	206	200	103.0	80-120
Cobalt				
Copper	anr			
Iron	anr			
Lead	508	500	101.6	80-120
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium	anr			
Silver	52.0	50	104.0	80-120
Sodium	anr			
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP10617: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10617
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/01/06

Metal	F44741-8A Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Barium	45.9	45.1	1.7	0-10
Beryllium				
Cadmium	0.880	1.34	52.3 (a)	0-10
Calcium	anr			
Chromium	5.56	3.85	30.8 (a)	0-10
Cobalt				
Copper	anr			
Iron	anr			
Lead	11.5	26.8	133.3(a)	0-10
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium	anr			
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP10617: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10628
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/02/06

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	1.8	2.2		
Arsenic	0.80	.28	.39	0.11	<0.80
Barium	20	.04	.08	0.023	<20
Cadmium	0.40	.02	.02	0.018	<0.40
Calcium	500	4.2	5.7		
Chromium	1.0	.06	.09	0.0090	<1.0
Iron	10	1.2	1.2		
Lead	10	.17	.2	0.047	<10
Magnesium	500	.43	.74		
Selenium	10	.2	.2	0.027	<10
Silver	1.0	.09	.09	-0.046	<1.0

Associated samples MP10628: F44814-1, F44814-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10628
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:			11/02/06					11/02/06	
Metal	F44814-2 Original	DUP	RPD	QC Limits	F44814-2 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Arsenic	3.1	3.1	0.0	0-20	3.1	244	244	98.9	80-120
Barium	87.2	85.3	2.2	0-20	87.2	521 (b)	244	178.1N(c	80-120
Cadmium	0.024	0.0	200.0(a)	0-20	0.024	5.9	6.1	96.5	80-120
Calcium									
Chromium	11.9	12.6	5.7	0-20	11.9	37.4	24.4	104.7	80-120
Iron	anr								
Lead	4.2	4.5	6.9	0-20	4.2	64.1	60.9	98.4	80-120
Magnesium									
Selenium	0.0	0.0	NC	0-20	0.0	229	244	94.0	80-120
Silver	0.0	0.0	NC	0-20	0.0	6.4	6.1	105.1	80-120

Associated samples MP10628: F44814-1, F44814-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) Above high standard.
(c) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10628
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/02/06

Metal	F44814-2 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Arsenic	3.1	218	221	97.0	11.3	20
Barium	87.2	333	221	111.0	44.0 (a)	20
Cadmium	0.024	5.2	5.5	93.5	12.6	20
Calcium						
Chromium	11.9	33.8	22.1	98.9	10.1	20
Iron	anr					
Lead	4.2	56.5	55.4	94.5	12.6	20
Magnesium						
Selenium	0.0	204	221	92.1	11.5	20
Silver	0.0	5.7	5.5	103.0	11.6	20

Associated samples MP10628: F44814-1, F44814-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) High RPD due to possible sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10628
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/02/06

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Arsenic	211	200	105.5	80-120
Barium	210	200	105.0	80-120
Cadmium	5.4	5	108.0	80-120
Calcium				
Chromium	21.6	20	108.0	80-120
Iron	anr			
Lead	53.4	50	106.8	80-120
Magnesium				
Selenium	197	200	98.5	80-120
Silver	5.2	5	104.0	80-120

Associated samples MP10628: F44814-1, F44814-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10628
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/02/06

Metal	F44814-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Arsenic	27.4	22.0	19.6 (a)	0-10
Barium	773	814	5.4	0-10
Cadmium	0.210	0.00	100.0(a)	0-10
Calcium				
Chromium	105	119	12.8*(b)	0-10
Iron	anr			
Lead	36.9	44.2	19.6 (a)	0-10
Magnesium				
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10

Associated samples MP10628: F44814-1, F44814-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10652
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:					11/07/06		11/07/06
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	18	18				
Antimony	6.0	3.4	3.4				
Arsenic	10	2.8	2.8	-0.25	<10	-2.4	<10
Barium	200	.4	.4				
Beryllium	4.0	.4	.4				
Cadmium	5.0	.2	.3				
Calcium	1000	42	42				
Chromium	10	.6	.6				
Cobalt	50	.6	.6				
Copper	25	.9	1				
Iron	300	12	15				
Lead	5.0	1.7	1.7				
Magnesium	5000	4.3	4.3				
Manganese	15	.6	1.5				
Molybdenum	50	1.3	1.6				
Nickel	40	.8	.8				
Potassium	10000	10	100				
Selenium	10	2	2.8	1.9	<10	1.0	<10
Silver	10	.9	.9				
Sodium	10000	500	500				
Thallium	10	2.3	2.9				
Tin	50	3.1	3.8				
Vanadium	50	.6	1.1				
Zinc	20	1.3	1.6				

Associated samples MP10652: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10652
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			11/07/06					11/07/06	
Metal	F44835-1 Original	DUP	RPD	QC Limits	F44835-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr								
Antimony									
Arsenic	75.6	78.1	3.3	0-20	75.6	2210	2000	106.7	80-120
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	anr								
Lead	anr								
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	0.0	0.0 (a)	NC	0-20	0.0	2020	2000	101.0	80-120
Silver	anr								
Sodium									
Thallium									
Tin									
Vanadium									
Zinc									

Associated samples MP10652: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10652
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/07/06

Metal	F44835-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony						
Arsenic	75.6	2230	2000	107.7	0.9	20
Barium	anr					
Beryllium						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron	anr					
Lead	anr					
Magnesium						
Manganese	anr					
Molybdenum						
Nickel						
Potassium						
Selenium	0.0	2030	2000	101.5	0.5	20
Silver	anr					
Sodium						
Thallium						
Tin						
Vanadium						
Zinc						

Associated samples MP10652: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10652
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/07/06

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr			
Antimony				
Arsenic	2000	2000	100.0	80-120
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	anr			
Lead	anr			
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium	1930	2000	96.5	80-120
Silver	anr			
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP10652: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F44814
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10652
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/07/06

Metal	F44835-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony				
Arsenic	75.6	81.6	7.9	0-10
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	anr			
Lead	anr			
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silver	anr			
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP10652: F44814-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

11/10/14

Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

PROJECT 9050361.01.04

Accutest Job Number: F44808

Sampling Date: 10/27/06

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **89**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Jean Dent-Smith 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 (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

Bhate Environmental Associates, Inc.

Job No: F44808

HOLMN
Project No: PROJECT 9050361.01.04

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F44808-1	10/27/06	09:00	JM	10/28/06	SO	Soil	SD-08-SB21-2
F44808-2	10/27/06	09:00	JM	10/28/06	SO	Soil	SD-08-SB21-2a
F44808-3	10/27/06	09:30	JM	10/28/06	SO	Soil	SD-08-SB21-6
F44808-4	10/27/06	10:45	JM	10/28/06	SO	Soil	SD-08-SB23-4
F44808-5	10/27/06	11:15	JM	10/28/06	SO	Soil	SD-08-SB23-7
F44808-6	10/27/06	00:00	JM	10/28/06	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Bhate Environmental Associates, Inc. **Job No:** F44808

Site: HOLMN **Report Date** 11/15/2006 2:19:57

5 Samples, 1 Trip Blank were collected on 10/27/2006 and received at Accutest on 10/28/2006 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F44808. 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: SO **Batch ID:** VG1573

All samples were analyzed within the recommended method holding time.

Sample(s) F44735-2MS, F44735-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for Vinyl Acetate are outside control limits. Passed in MS/MSD, SW-846 8000 requirements are met

BS, MS/MSD Recovery(s) for Acrolein are outside control limits. Biased high, not detcted in the samples, data integrity not adversely affected. Probable cause due to matrix interference.

Extractables by GCMS By Method SW846 8270C

Matrix: SO **Batch ID:** OP18412

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) F44735-2MS, F44735-2MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for Benzidine are outside control limits. See Blank Spike. Probable cause due to matrix interference.

RPD(s) for MSD for Benzoic acid are outside control limits for sample OP18412-MSD. Probable cause due to sample homogeneity.

Sample(s) F44808-1, F44808-2 have surrogates outside control limits. Probable cause due to matrix interference.

F44808-2: Confirmed ND by re-extraction and reanalysis.

F44808-1: Confirmed ND by re-extraction and reanalysis.

Matrix: SO **Batch ID:** OP18469

Sample(s) F44808-1, F44808-2 have surrogates outside control limits. Probable cause due to matrix interference.

F44808-2: Confirmation run.

F44808-1: Confirmation run.

Extractables by GC By Method SW846 8081A

Matrix: SO **Batch ID:** OP18466

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F44814-2MS, F44814-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix: SO **Batch ID:** MP10630

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) F44808-1DUP, F44808-1MS, F44808-1MSD, F44808-1SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic, Cadmium are outside control limits for sample MP10630-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

F44808-5 for Selenium: Elevated reporting limit(s) due to matrix interference.
F44808-3 for Selenium: Elevated reporting limit(s) due to matrix interference.
F44808-4 for Selenium: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 7471A

Matrix: SO **Batch ID:** MP10605

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) F44776-34DUP, F44776-34MS were used as the QC samples for metals.

Wet Chemistry By Method EPA 160.3 M

Matrix: SO **Batch ID:** GN22800

Sample(s) F44808-1DUP were used as the QC samples for Solids, Percent.

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: November 15, 2006
Svetlana Izosimova, QAO (signature on file)

Summary of Hits

Job Number: F44808
Account: Bhate Environmental Associates, Inc.
Project: HOLMN
Collected: 10/27/06

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F44808-1	**SD-08-SB21-2**					
Diethyl phthalate [a]		129 J	370	93	ug/kg	SW846 8270C
Arsenic		2.4	0.94	0.46	mg/kg	SW846 6010B
Barium		59.9	24	0.094	mg/kg	SW846 6010B
Cadmium		0.031 J	0.47	0.024	mg/kg	SW846 6010B
Chromium		5.5	1.2	0.11	mg/kg	SW846 6010B
Lead		2.8 J	12	0.24	mg/kg	SW846 6010B
F44808-2	**SD-08-SB21-2a**					
Arsenic		2.4	0.89	0.43	mg/kg	SW846 6010B
Barium		63.7	22	0.089	mg/kg	SW846 6010B
Cadmium		0.038 J	0.44	0.022	mg/kg	SW846 6010B
Chromium		5.5	1.1	0.10	mg/kg	SW846 6010B
Lead		2.9 J	11	0.22	mg/kg	SW846 6010B
Mercury		0.013 J	0.096	0.0077	mg/kg	SW846 7471A
F44808-3	**SD-08-SB21-6**					
Arsenic		1.6	1.0	0.51	mg/kg	SW846 6010B
Barium		79.5	26	0.10	mg/kg	SW846 6010B
Cadmium		0.057 J	0.52	0.026	mg/kg	SW846 6010B
Chromium		4.9	1.3	0.12	mg/kg	SW846 6010B
Lead		2.2 J	13	0.26	mg/kg	SW846 6010B
F44808-4	**SD-08-SB23-4**					
Diethyl phthalate		150 J	410	100	ug/kg	SW846 8270C
Arsenic		3.0	1.0	0.50	mg/kg	SW846 6010B
Barium		75.9	26	0.10	mg/kg	SW846 6010B
Cadmium		0.080 J	0.52	0.026	mg/kg	SW846 6010B
Chromium		5.2	1.3	0.12	mg/kg	SW846 6010B
Lead		2.5 J	13	0.26	mg/kg	SW846 6010B
F44808-5	**SD-08-SB23-7**					
Arsenic		0.99 J	1.0	0.50	mg/kg	SW846 6010B
Barium		60.1	26	0.10	mg/kg	SW846 6010B
Cadmium		0.027 J	0.52	0.026	mg/kg	SW846 6010B
Chromium		3.5	1.3	0.12	mg/kg	SW846 6010B
Lead		1.8 J	13	0.26	mg/kg	SW846 6010B

Summary of Hits

Job Number: F44808
Account: Bhate Environmental Associates, Inc.
Project: HOLMN
Collected: 10/27/06

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F44808-6	**TRIP BLANK**					

No hits reported in this sample.

(a) Confirmed ND by re-extraction and reanalysis.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD-08-SB21-2		
Lab Sample ID:	F44808-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.1
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0040975.D	1	11/02/06	SH	10/28/06 10:50	n/a	VG1573
Run #2							

	Initial Weight
Run #1	6.28 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	47	23	ug/kg	
75-05-8	Acetonitrile	ND	47	33	ug/kg	
107-02-8	Acrolein	ND	23	14	ug/kg	
107-13-1	Acrylonitrile	ND	23	12	ug/kg	
107-05-1	Allyl chloride	ND	23	4.7	ug/kg	
71-43-2	Benzene	ND	4.7	1.9	ug/kg	
100-44-7	Benzyl Chloride	ND	4.7	2.8	ug/kg	
108-86-1	Bromobenzene	ND	4.7	1.9	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	1.9	ug/kg	
75-25-2	Bromoform	ND	4.7	1.9	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	2.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	1.9	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	1.9	ug/kg	
75-00-3	Chloroethane	ND	4.7	2.8	ug/kg	
67-66-3	Chloroform	ND	4.7	1.9	ug/kg	
544-10-5	1-Chlorohexane	ND	4.7	1.9	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.7	1.9	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.7	1.9	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	23	12	ug/kg	
75-15-0	Carbon disulfide	ND	4.7	1.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.7	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	1.9	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.7	1.9	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.7	1.9	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	2.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.7	1.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.7	1.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	1.9	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.7	1.9	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.7	1.9	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-2		
Lab Sample ID:	F44808-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.1
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	4.7	1.9	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	2.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.7	1.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	1.9	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	23	4.7	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.7	1.9	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.7	1.9	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.7	1.9	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.7	1.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	1.9	ug/kg	
100-41-4	Ethylbenzene	ND	4.7	1.9	ug/kg	
97-63-2	Ethyl methacrylate	ND	23	4.7	ug/kg	
76-13-1	Freon 113	ND	4.7	1.9	ug/kg	
591-78-6	2-Hexanone	ND	23	9.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.7	1.9	ug/kg	
110-54-3	Hexane	ND	4.7	2.8	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	1.9	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	1.9	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	23	9.4	ug/kg	
126-98-7	Methacrylonitrile	ND	23	9.4	ug/kg	
74-83-9	Methyl bromide	ND	4.7	1.9	ug/kg	
74-87-3	Methyl chloride	ND	4.7	1.9	ug/kg	
74-88-4	Methyl iodide	ND	9.4	1.9	ug/kg	
80-62-6	Methyl methacrylate	ND	23	4.7	ug/kg	
74-95-3	Methylene bromide	ND	4.7	1.9	ug/kg	
75-09-2	Methylene chloride	ND	9.4	4.7	ug/kg	
78-93-3	Methyl ethyl ketone	ND	23	9.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	1.9	ug/kg	
91-20-3	Naphthalene	ND	4.7	1.9	ug/kg	
76-01-7	Pentachloroethane	ND	23	4.7	ug/kg	
107-12-0	Propionitrile	ND	47	9.4	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	1.9	ug/kg	
100-42-5	Styrene	ND	4.7	1.9	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.7	1.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	1.9	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	1.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	1.9	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	1.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	2.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	1.9	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-2		
Lab Sample ID:	F44808-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.1
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	2.8	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	1.9	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.7	1.9	ug/kg	
108-88-3	Toluene	ND	4.7	1.9	ug/kg	
79-01-6	Trichloroethylene	ND	4.7	1.9	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	1.9	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	23	9.4	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	1.9	ug/kg	
108-05-4	Vinyl Acetate	ND	23	9.4	ug/kg	
	m,p-Xylene	ND	9.4	2.8	ug/kg	
95-47-6	o-Xylene	ND	4.7	1.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		78-123%
2037-26-5	Toluene-D8	92%		71-137%
460-00-4	4-Bromofluorobenzene	87%		61-157%
17060-07-0	1,2-Dichloroethane-D4	100%		74-125%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-2		
Lab Sample ID:	F44808-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	85.1
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R05776.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
Run #2 [b]	L034780.D	1	11/13/06	NJ	11/10/06	OP18469	SL1785

	Initial Weight	Final Volume
Run #1	31.5 g	1.0 ml
Run #2	29.5 g	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	930	370	ug/kg	
95-57-8	2-Chlorophenol	ND	190	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	37	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	37	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	930	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	370	75	ug/kg	
95-48-7	2-Methylphenol	ND	190	37	ug/kg	
	3&4-Methylphenol	ND	190	37	ug/kg	
88-75-5	2-Nitrophenol	ND	190	37	ug/kg	
100-02-7	4-Nitrophenol	ND	930	370	ug/kg	
87-86-5	Pentachlorophenol	ND	930	370	ug/kg	
108-95-2	Phenol	ND	190	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	37	ug/kg	
83-32-9	Acenaphthene	ND	190	37	ug/kg	
208-96-8	Acenaphthylene	ND	190	37	ug/kg	
120-12-7	Anthracene	ND	190	37	ug/kg	
92-87-5	Benzidine	ND	1900	930	ug/kg	
56-55-3	Benzo(a)anthracene	ND	190	37	ug/kg	
50-32-8	Benzo(a)pyrene	ND	190	37	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	190	37	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	190	75	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	190	37	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	190	37	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	370	93	ug/kg	
100-51-6	Benzyl Alcohol	ND	190	37	ug/kg	
91-58-7	2-Chloronaphthalene	ND	190	37	ug/kg	
106-47-8	4-Chloroaniline	ND	370	150	ug/kg	
218-01-9	Chrysene	ND	190	37	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	190	37	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	190	75	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-2		
Lab Sample ID:	F44808-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	85.1
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	190	37	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	37	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	190	37	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	190	37	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	190	37	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	190	75	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	190	75	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	370	190	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	190	75	ug/kg	
132-64-9	Dibenzofuran	ND	190	37	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	370	93	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	370	190	ug/kg	
84-66-2	Diethyl phthalate	129	370	93	ug/kg	J
131-11-3	Dimethyl phthalate	ND	370	93	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	370	190	ug/kg	
206-44-0	Fluoranthene	ND	190	37	ug/kg	
86-73-7	Fluorene	ND	190	37	ug/kg	
118-74-1	Hexachlorobenzene	ND	190	37	ug/kg	
87-68-3	Hexachlorobutadiene	ND	190	75	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	190	75	ug/kg	
67-72-1	Hexachloroethane	ND	190	75	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	190	75	ug/kg	
78-59-1	Isophorone	ND	190	37	ug/kg	
91-57-6	2-Methylnaphthalene	ND	190	37	ug/kg	
88-74-4	2-Nitroaniline	ND	370	93	ug/kg	
99-09-2	3-Nitroaniline	ND	370	93	ug/kg	
100-01-6	4-Nitroaniline	ND	370	130	ug/kg	
91-20-3	Naphthalene	ND	190	37	ug/kg	
98-95-3	Nitrobenzene	ND	190	37	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	190	75	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	37	ug/kg	
85-01-8	Phenanthrene	ND	190	37	ug/kg	
129-00-0	Pyrene	ND	190	75	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	190	37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%	72%	45-114%
4165-62-2	Phenol-d5	52%	73%	44-124%
118-79-6	2,4,6-Tribromophenol	42%	76%	50-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-2		
Lab Sample ID:	F44808-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	85.1
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	48%	68%	41-123%
321-60-8	2-Fluorobiphenyl	49%	68%	46-122%
1718-51-0	Terphenyl-d14	51%	86%	45-135%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run.

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:	SD-08-SB21-2		
Lab Sample ID:	F44808-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8081A SW846 3550B	**Percent Solids:**	85.1
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT03306.D	1	11/12/06	VS	11/09/06	OP18466	GTT117
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.9	0.77	ug/kg	
319-84-6	alpha-BHC	ND	1.9	0.77	ug/kg	
319-85-7	beta-BHC	ND	1.9	0.77	ug/kg	
319-86-8	delta-BHC	ND	1.9	0.77	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.9	0.77	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.9	0.77	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.9	0.77	ug/kg	
60-57-1	Dieldrin	ND	1.9	0.77	ug/kg	
72-54-8	4,4'-DDD	ND	3.9	0.77	ug/kg	
72-55-9	4,4'-DDE	ND	3.9	0.77	ug/kg	
50-29-3	4,4'-DDT	ND	3.9	1.2	ug/kg	
72-20-8	Endrin	ND	3.9	0.77	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.9	0.77	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.9	1.5	ug/kg	
53494-70-5	Endrin ketone	ND	3.9	0.77	ug/kg	
959-98-8	Endosulfan-I	ND	1.9	0.77	ug/kg	
33213-65-9	Endosulfan-II	ND	3.9	0.77	ug/kg	
76-44-8	Heptachlor	ND	1.9	0.77	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.9	0.77	ug/kg	
72-43-5	Methoxychlor	ND	3.9	1.5	ug/kg	
8001-35-2	Toxaphene	ND	96	48	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		60-142%
2051-24-3	Decachlorobiphenyl	87%		61-153%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-2		
Lab Sample ID:	F44808-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
		Percent Solids:	85.1
Project:	HOLMN		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.4	0.94	0.46	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Barium	59.9	24	0.094	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Cadmium	0.031 J	0.47	0.024	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Chromium	5.5	1.2	0.11	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Lead	2.8 J	12	0.24	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Mercury	0.0078 U	0.098	0.0078	mg/kg	1	10/31/06	10/31/06	MS	SW846 7471A [1]	SW846 7471A [3]
Selenium	0.24 U	12	0.24	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Silver	0.11 U	1.2	0.11	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA5317
(2) Instrument QC Batch: MA5327
(3) Prep QC Batch: MP10605
(4) Prep QC Batch: MP10630

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SD-08-SB21-2a		
Lab Sample ID:	F44808-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	86.6
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0040976.D	1	11/02/06	SH	10/28/06 10:50	n/a	VG1573
Run #2							

	Initial Weight
Run #1	6.17 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	47	23	ug/kg	
75-05-8	Acetonitrile	ND	47	33	ug/kg	
107-02-8	Acrolein	ND	23	14	ug/kg	
107-13-1	Acrylonitrile	ND	23	12	ug/kg	
107-05-1	Allyl chloride	ND	23	4.7	ug/kg	
71-43-2	Benzene	ND	4.7	1.9	ug/kg	
100-44-7	Benzyl Chloride	ND	4.7	2.8	ug/kg	
108-86-1	Bromobenzene	ND	4.7	1.9	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	1.9	ug/kg	
75-25-2	Bromoform	ND	4.7	1.9	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	2.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	1.9	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	1.9	ug/kg	
75-00-3	Chloroethane	ND	4.7	2.8	ug/kg	
67-66-3	Chloroform	ND	4.7	1.9	ug/kg	
544-10-5	1-Chlorohexane	ND	4.7	1.9	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.7	1.9	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.7	1.9	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	23	12	ug/kg	
75-15-0	Carbon disulfide	ND	4.7	1.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.7	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	1.9	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.7	1.9	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.7	1.9	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	2.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.7	1.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.7	1.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	1.9	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.7	1.9	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.7	1.9	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-2a		
Lab Sample ID:	F44808-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	86.6
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	4.7	1.9	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	2.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.7	1.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	1.9	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	23	4.7	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.7	1.9	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.7	1.9	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.7	1.9	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.7	1.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	1.9	ug/kg	
100-41-4	Ethylbenzene	ND	4.7	1.9	ug/kg	
97-63-2	Ethyl methacrylate	ND	23	4.7	ug/kg	
76-13-1	Freon 113	ND	4.7	1.9	ug/kg	
591-78-6	2-Hexanone	ND	23	9.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.7	1.9	ug/kg	
110-54-3	Hexane	ND	4.7	2.8	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	1.9	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	1.9	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	23	9.4	ug/kg	
126-98-7	Methacrylonitrile	ND	23	9.4	ug/kg	
74-83-9	Methyl bromide	ND	4.7	1.9	ug/kg	
74-87-3	Methyl chloride	ND	4.7	1.9	ug/kg	
74-88-4	Methyl iodide	ND	9.4	1.9	ug/kg	
80-62-6	Methyl methacrylate	ND	23	4.7	ug/kg	
74-95-3	Methylene bromide	ND	4.7	1.9	ug/kg	
75-09-2	Methylene chloride	ND	9.4	4.7	ug/kg	
78-93-3	Methyl ethyl ketone	ND	23	9.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	1.9	ug/kg	
91-20-3	Naphthalene	ND	4.7	1.9	ug/kg	
76-01-7	Pentachloroethane	ND	23	4.7	ug/kg	
107-12-0	Propionitrile	ND	47	9.4	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	1.9	ug/kg	
100-42-5	Styrene	ND	4.7	1.9	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.7	1.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	1.9	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	1.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	1.9	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	1.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	2.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	1.9	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-2a		
Lab Sample ID:	F44808-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	86.6
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	2.8	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	1.9	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.7	1.9	ug/kg	
108-88-3	Toluene	ND	4.7	1.9	ug/kg	
79-01-6	Trichloroethylene	ND	4.7	1.9	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	1.9	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	23	9.4	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	1.9	ug/kg	
108-05-4	Vinyl Acetate	ND	23	9.4	ug/kg	
	m,p-Xylene	ND	9.4	2.8	ug/kg	
95-47-6	o-Xylene	ND	4.7	1.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		78-123%
2037-26-5	Toluene-D8	90%		71-137%
460-00-4	4-Bromofluorobenzene	87%		61-157%
17060-07-0	1,2-Dichloroethane-D4	94%		74-125%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-2a		
Lab Sample ID:	F44808-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	86.6
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R05777.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
Run #2 [b]	L034781.D	1	11/13/06	NJ	11/10/06	OP18469	SL1785

	Initial Weight	Final Volume
Run #1	29.6 g	1.0 ml
Run #2	32.2 g	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	980	390	ug/kg	
95-57-8	2-Chlorophenol	ND	200	39	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	39	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	39	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	39	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	980	390	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	390	78	ug/kg	
95-48-7	2-Methylphenol	ND	200	39	ug/kg	
	3&4-Methylphenol	ND	200	39	ug/kg	
88-75-5	2-Nitrophenol	ND	200	39	ug/kg	
100-02-7	4-Nitrophenol	ND	980	390	ug/kg	
87-86-5	Pentachlorophenol	ND	980	390	ug/kg	
108-95-2	Phenol	ND	200	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	39	ug/kg	
83-32-9	Acenaphthene	ND	200	39	ug/kg	
208-96-8	Acenaphthylene	ND	200	39	ug/kg	
120-12-7	Anthracene	ND	200	39	ug/kg	
92-87-5	Benzidine	ND	2000	980	ug/kg	
56-55-3	Benzo(a)anthracene	ND	200	39	ug/kg	
50-32-8	Benzo(a)pyrene	ND	200	39	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	200	39	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	200	78	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	200	39	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	200	39	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	390	98	ug/kg	
100-51-6	Benzyl Alcohol	ND	200	39	ug/kg	
91-58-7	2-Chloronaphthalene	ND	200	39	ug/kg	
106-47-8	4-Chloroaniline	ND	390	160	ug/kg	
218-01-9	Chrysene	ND	200	39	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	200	39	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	200	78	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-2a		
Lab Sample ID:	F44808-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	86.6
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	200	39	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	39	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	200	39	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	200	39	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	200	39	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	200	78	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	200	78	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	390	200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	200	78	ug/kg	
132-64-9	Dibenzofuran	ND	200	39	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	390	98	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	390	200	ug/kg	
84-66-2	Diethyl phthalate	ND	390	98	ug/kg	
131-11-3	Dimethyl phthalate	ND	390	98	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	390	200	ug/kg	
206-44-0	Fluoranthene	ND	200	39	ug/kg	
86-73-7	Fluorene	ND	200	39	ug/kg	
118-74-1	Hexachlorobenzene	ND	200	39	ug/kg	
87-68-3	Hexachlorobutadiene	ND	200	78	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	200	78	ug/kg	
67-72-1	Hexachloroethane	ND	200	78	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	200	78	ug/kg	
78-59-1	Isophorone	ND	200	39	ug/kg	
91-57-6	2-Methylnaphthalene	ND	200	39	ug/kg	
88-74-4	2-Nitroaniline	ND	390	98	ug/kg	
99-09-2	3-Nitroaniline	ND	390	98	ug/kg	
100-01-6	4-Nitroaniline	ND	390	140	ug/kg	
91-20-3	Naphthalene	ND	200	39	ug/kg	
98-95-3	Nitrobenzene	ND	200	39	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	200	78	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	39	ug/kg	
85-01-8	Phenanthrene	ND	200	39	ug/kg	
129-00-0	Pyrene	ND	200	78	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	200	39	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%	63%	45-114%
4165-62-2	Phenol-d5	56%	64%	44-124%
118-79-6	2,4,6-Tribromophenol	44%	71%	50-128%

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:	SD-08-SB21-2a		
Lab Sample ID:	F44808-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	86.6
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	54%	61%	41-123%
321-60-8	2-Fluorobiphenyl	55%	62%	46-122%
1718-51-0	Terphenyl-d14	59%	78%	45-135%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run.

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:	SD-08-SB21-2a		
Lab Sample ID:	F44808-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8081A SW846 3550B	**Percent Solids:**	86.6
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT03307.D	1	11/12/06	VS	11/09/06	OP18466	GTT117
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.9	0.77	ug/kg	
319-84-6	alpha-BHC	ND	1.9	0.77	ug/kg	
319-85-7	beta-BHC	ND	1.9	0.77	ug/kg	
319-86-8	delta-BHC	ND	1.9	0.77	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.9	0.77	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.9	0.77	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.9	0.77	ug/kg	
60-57-1	Dieldrin	ND	1.9	0.77	ug/kg	
72-54-8	4,4'-DDD	ND	3.8	0.77	ug/kg	
72-55-9	4,4'-DDE	ND	3.8	0.77	ug/kg	
50-29-3	4,4'-DDT	ND	3.8	1.2	ug/kg	
72-20-8	Endrin	ND	3.8	0.77	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.8	0.77	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.8	1.5	ug/kg	
53494-70-5	Endrin ketone	ND	3.8	0.77	ug/kg	
959-98-8	Endosulfan-I	ND	1.9	0.77	ug/kg	
33213-65-9	Endosulfan-II	ND	3.8	0.77	ug/kg	
76-44-8	Heptachlor	ND	1.9	0.77	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.9	0.77	ug/kg	
72-43-5	Methoxychlor	ND	3.8	1.5	ug/kg	
8001-35-2	Toxaphene	ND	96	48	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		60-142%
2051-24-3	Decachlorobiphenyl	80%		61-153%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-2a		
Lab Sample ID:	F44808-2	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
		Percent Solids:	86.6
Project:	HOLMN		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.4	0.89	0.43	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Barium	63.7	22	0.089	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Cadmium	0.038 J	0.44	0.022	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Chromium	5.5	1.1	0.10	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Lead	2.9 J	11	0.22	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Mercury	0.013 J	0.096	0.0077	mg/kg	1	10/31/06	10/31/06	MS	SW846 7471A [1]	SW846 7471A [3]
Selenium	0.22 U	11	0.22	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Silver	0.10 U	1.1	0.10	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA5317
(2) Instrument QC Batch: MA5327
(3) Prep QC Batch: MP10605
(4) Prep QC Batch: MP10630

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SD-08-SB21-6		
Lab Sample ID:	F44808-3	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	75.6
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0040977.D	1	11/02/06	SH	10/28/06 10:50	n/a	VG1573
Run #2							

	Initial Weight
Run #1	5.62 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	59	29	ug/kg	
75-05-8	Acetonitrile	ND	59	41	ug/kg	
107-02-8	Acrolein	ND	29	18	ug/kg	
107-13-1	Acrylonitrile	ND	29	15	ug/kg	
107-05-1	Allyl chloride	ND	29	5.9	ug/kg	
71-43-2	Benzene	ND	5.9	2.4	ug/kg	
100-44-7	Benzyl Chloride	ND	5.9	3.5	ug/kg	
108-86-1	Bromobenzene	ND	5.9	2.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.9	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.9	2.4	ug/kg	
75-25-2	Bromoform	ND	5.9	2.4	ug/kg	
104-51-8	n-Butylbenzene	ND	5.9	3.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.9	2.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.9	2.4	ug/kg	
108-90-7	Chlorobenzene	ND	5.9	2.4	ug/kg	
75-00-3	Chloroethane	ND	5.9	3.5	ug/kg	
67-66-3	Chloroform	ND	5.9	2.4	ug/kg	
544-10-5	1-Chlorohexane	ND	5.9	2.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.9	2.4	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.9	2.4	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	29	15	ug/kg	
75-15-0	Carbon disulfide	ND	5.9	2.4	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.9	2.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.9	2.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.9	2.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.9	2.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.9	3.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.9	2.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.9	2.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.9	2.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.9	2.4	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.9	2.4	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-6		
Lab Sample ID:	F44808-3	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	75.6
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.9	2.4	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.9	3.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.9	2.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.9	2.4	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	29	5.9	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.9	2.4	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.9	2.4	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.9	2.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.9	2.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.9	2.4	ug/kg	
100-41-4	Ethylbenzene	ND	5.9	2.4	ug/kg	
97-63-2	Ethyl methacrylate	ND	29	5.9	ug/kg	
76-13-1	Freon 113	ND	5.9	2.4	ug/kg	
591-78-6	2-Hexanone	ND	29	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.9	2.4	ug/kg	
110-54-3	Hexane	ND	5.9	3.5	ug/kg	
98-82-8	Isopropylbenzene	ND	5.9	2.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.9	2.4	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	29	12	ug/kg	
126-98-7	Methacrylonitrile	ND	29	12	ug/kg	
74-83-9	Methyl bromide	ND	5.9	2.4	ug/kg	
74-87-3	Methyl chloride	ND	5.9	2.4	ug/kg	
74-88-4	Methyl iodide	ND	12	2.4	ug/kg	
80-62-6	Methyl methacrylate	ND	29	5.9	ug/kg	
74-95-3	Methylene bromide	ND	5.9	2.4	ug/kg	
75-09-2	Methylene chloride	ND	12	5.9	ug/kg	
78-93-3	Methyl ethyl ketone	ND	29	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.9	2.4	ug/kg	
91-20-3	Naphthalene	ND	5.9	2.4	ug/kg	
76-01-7	Pentachloroethane	ND	29	5.9	ug/kg	
107-12-0	Propionitrile	ND	59	12	ug/kg	
103-65-1	n-Propylbenzene	ND	5.9	2.4	ug/kg	
100-42-5	Styrene	ND	5.9	2.4	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.9	2.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.9	2.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.9	2.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.9	2.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	2.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.9	2.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	2.4	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-6		
Lab Sample ID:	F44808-3	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	75.6
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.9	3.5	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.9	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.9	2.4	ug/kg	
108-88-3	Toluene	ND	5.9	2.4	ug/kg	
79-01-6	Trichloroethylene	ND	5.9	2.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.9	2.4	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	29	12	ug/kg	
75-01-4	Vinyl chloride	ND	5.9	2.4	ug/kg	
108-05-4	Vinyl Acetate	ND	29	12	ug/kg	
	m,p-Xylene	ND	12	3.5	ug/kg	
95-47-6	o-Xylene	ND	5.9	2.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		78-123%
2037-26-5	Toluene-D8	91%		71-137%
460-00-4	4-Bromofluorobenzene	88%		61-157%
17060-07-0	1,2-Dichloroethane-D4	94%		74-125%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-6		
Lab Sample ID:	F44808-3	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	75.6
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R05778.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
Run #2							

	Initial Weight	Final Volume
Run #1	31.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	1100	430	ug/kg	
95-57-8	2-Chlorophenol	ND	210	43	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	43	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	43	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	43	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	430	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	430	85	ug/kg	
95-48-7	2-Methylphenol	ND	210	43	ug/kg	
	3&4-Methylphenol	ND	210	43	ug/kg	
88-75-5	2-Nitrophenol	ND	210	43	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	430	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	430	ug/kg	
108-95-2	Phenol	ND	210	43	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	43	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	43	ug/kg	
83-32-9	Acenaphthene	ND	210	43	ug/kg	
208-96-8	Acenaphthylene	ND	210	43	ug/kg	
120-12-7	Anthracene	ND	210	43	ug/kg	
92-87-5	Benzidine	ND	2100	1100	ug/kg	
56-55-3	Benzo(a)anthracene	ND	210	43	ug/kg	
50-32-8	Benzo(a)pyrene	ND	210	43	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	210	43	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	210	85	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	210	43	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	210	43	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	430	110	ug/kg	
100-51-6	Benzyl Alcohol	ND	210	43	ug/kg	
91-58-7	2-Chloronaphthalene	ND	210	43	ug/kg	
106-47-8	4-Chloroaniline	ND	430	170	ug/kg	
218-01-9	Chrysene	ND	210	43	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	210	43	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	210	85	ug/kg	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-6		
Lab Sample ID:	F44808-3	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	75.6
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	210	43	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	210	43	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	210	43	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	210	43	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	210	43	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	210	85	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	210	85	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	430	210	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	210	85	ug/kg	
132-64-9	Dibenzofuran	ND	210	43	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	430	110	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	430	210	ug/kg	
84-66-2	Diethyl phthalate	ND	430	110	ug/kg	
131-11-3	Dimethyl phthalate	ND	430	110	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	430	210	ug/kg	
206-44-0	Fluoranthene	ND	210	43	ug/kg	
86-73-7	Fluorene	ND	210	43	ug/kg	
118-74-1	Hexachlorobenzene	ND	210	43	ug/kg	
87-68-3	Hexachlorobutadiene	ND	210	85	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	210	85	ug/kg	
67-72-1	Hexachloroethane	ND	210	85	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	210	85	ug/kg	
78-59-1	Isophorone	ND	210	43	ug/kg	
91-57-6	2-Methylnaphthalene	ND	210	43	ug/kg	
88-74-4	2-Nitroaniline	ND	430	110	ug/kg	
99-09-2	3-Nitroaniline	ND	430	110	ug/kg	
100-01-6	4-Nitroaniline	ND	430	150	ug/kg	
91-20-3	Naphthalene	ND	210	43	ug/kg	
98-95-3	Nitrobenzene	ND	210	43	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	210	85	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	43	ug/kg	
85-01-8	Phenanthrene	ND	210	43	ug/kg	
129-00-0	Pyrene	ND	210	85	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	43	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		45-114%
4165-62-2	Phenol-d5	64%		44-124%
118-79-6	2,4,6-Tribromophenol	56%		50-128%

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Report of Analysis

Client Sample ID:	SD-08-SB21-6		
Lab Sample ID:	F44808-3	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	75.6
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	57%		41-123%
321-60-8	2-Fluorobiphenyl	59%		46-122%
1718-51-0	Terphenyl-d14	62%		45-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB21-6		
Lab Sample ID:	F44808-3	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8081A SW846 3550B	**Percent Solids:**	75.6
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT03308.D	1	11/12/06	VS	11/09/06	OP18466	GTT117
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	2.2	0.88	ug/kg	
319-84-6	alpha-BHC	ND	2.2	0.88	ug/kg	
319-85-7	beta-BHC	ND	2.2	0.88	ug/kg	
319-86-8	delta-BHC	ND	2.2	0.88	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	2.2	0.88	ug/kg	
5103-71-9	alpha-Chlordane	ND	2.2	0.88	ug/kg	
5103-74-2	gamma-Chlordane	ND	2.2	0.88	ug/kg	
60-57-1	Dieldrin	ND	2.2	0.88	ug/kg	
72-54-8	4,4'-DDD	ND	4.4	0.88	ug/kg	
72-55-9	4,4'-DDE	ND	4.4	0.88	ug/kg	
50-29-3	4,4'-DDT	ND	4.4	1.3	ug/kg	
72-20-8	Endrin	ND	4.4	0.88	ug/kg	
1031-07-8	Endosulfan sulfate	ND	4.4	0.88	ug/kg	
7421-93-4	Endrin aldehyde	ND	4.4	1.8	ug/kg	
53494-70-5	Endrin ketone	ND	4.4	0.88	ug/kg	
959-98-8	Endosulfan-I	ND	2.2	0.88	ug/kg	
33213-65-9	Endosulfan-II	ND	4.4	0.88	ug/kg	
76-44-8	Heptachlor	ND	2.2	0.88	ug/kg	
1024-57-3	Heptachlor epoxide	ND	2.2	0.88	ug/kg	
72-43-5	Methoxychlor	ND	4.4	1.8	ug/kg	
8001-35-2	Toxaphene	ND	110	55	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		60-142%
2051-24-3	Decachlorobiphenyl	77%		61-153%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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Report of Analysis

Client Sample ID:	SD-08-SB21-6		
Lab Sample ID:	F44808-3	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
		Percent Solids:	75.6
Project:	HOLMN		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.6	1.0	0.51	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Barium	79.5	26	0.10	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Cadmium	0.057 J	0.52	0.026	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Chromium	4.9	1.3	0.12	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Lead	2.2 J	13	0.26	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Mercury	0.0079 U	0.099	0.0079	mg/kg	1	10/31/06	10/31/06	MS	SW846 7471A [1]	SW846 7471A [3]
Selenium [a]	26 U	52	26	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Silver	0.12 U	1.3	0.12	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA5317
(2) Instrument QC Batch: MA5327
(3) Prep QC Batch: MP10605
(4) Prep QC Batch: MP10630

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SD-08-SB23-4		
Lab Sample ID:	F44808-4	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	75.8
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0040978.D	1	11/02/06	SH	10/28/06 10:50	n/a	VG1573
Run #2							

	Initial Weight
Run #1	5.15 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	64	32	ug/kg	
75-05-8	Acetonitrile	ND	64	45	ug/kg	
107-02-8	Acrolein	ND	32	19	ug/kg	
107-13-1	Acrylonitrile	ND	32	16	ug/kg	
107-05-1	Allyl chloride	ND	32	6.4	ug/kg	
71-43-2	Benzene	ND	6.4	2.6	ug/kg	
100-44-7	Benzyl Chloride	ND	6.4	3.8	ug/kg	
108-86-1	Bromobenzene	ND	6.4	2.6	ug/kg	
74-97-5	Bromochloromethane	ND	6.4	2.6	ug/kg	
75-27-4	Bromodichloromethane	ND	6.4	2.6	ug/kg	
75-25-2	Bromoform	ND	6.4	2.6	ug/kg	
104-51-8	n-Butylbenzene	ND	6.4	3.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.4	2.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.4	2.6	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	2.6	ug/kg	
75-00-3	Chloroethane	ND	6.4	3.8	ug/kg	
67-66-3	Chloroform	ND	6.4	2.6	ug/kg	
544-10-5	1-Chlorohexane	ND	6.4	2.6	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.4	2.6	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.4	2.6	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	32	16	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	2.6	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	2.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	2.6	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.4	2.6	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.4	2.6	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.4	3.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.4	2.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.4	2.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.4	2.6	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.4	2.6	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.4	2.6	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB23-4		
Lab Sample ID:	F44808-4	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	75.8
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	6.4	2.6	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.4	3.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.4	2.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.4	2.6	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	32	6.4	ug/kg	
541-73-1	m-Dichlorobenzene	ND	6.4	2.6	ug/kg	
95-50-1	o-Dichlorobenzene	ND	6.4	2.6	ug/kg	
106-46-7	p-Dichlorobenzene	ND	6.4	2.6	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.4	2.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.4	2.6	ug/kg	
100-41-4	Ethylbenzene	ND	6.4	2.6	ug/kg	
97-63-2	Ethyl methacrylate	ND	32	6.4	ug/kg	
76-13-1	Freon 113	ND	6.4	2.6	ug/kg	
591-78-6	2-Hexanone	ND	32	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.4	2.6	ug/kg	
110-54-3	Hexane	ND	6.4	3.8	ug/kg	
98-82-8	Isopropylbenzene	ND	6.4	2.6	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.4	2.6	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	32	13	ug/kg	
126-98-7	Methacrylonitrile	ND	32	13	ug/kg	
74-83-9	Methyl bromide	ND	6.4	2.6	ug/kg	
74-87-3	Methyl chloride	ND	6.4	2.6	ug/kg	
74-88-4	Methyl iodide	ND	13	2.6	ug/kg	
80-62-6	Methyl methacrylate	ND	32	6.4	ug/kg	
74-95-3	Methylene bromide	ND	6.4	2.6	ug/kg	
75-09-2	Methylene chloride	ND	13	6.4	ug/kg	
78-93-3	Methyl ethyl ketone	ND	32	13	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.4	2.6	ug/kg	
91-20-3	Naphthalene	ND	6.4	2.6	ug/kg	
76-01-7	Pentachloroethane	ND	32	6.4	ug/kg	
107-12-0	Propionitrile	ND	64	13	ug/kg	
103-65-1	n-Propylbenzene	ND	6.4	2.6	ug/kg	
100-42-5	Styrene	ND	6.4	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.4	2.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.4	2.6	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	2.6	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.4	2.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.4	2.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.4	3.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	2.6	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB23-4		
Lab Sample ID:	F44808-4	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	75.8
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	6.4	3.8	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.4	2.6	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.4	2.6	ug/kg	
108-88-3	Toluene	ND	6.4	2.6	ug/kg	
79-01-6	Trichloroethylene	ND	6.4	2.6	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.4	2.6	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	32	13	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	2.6	ug/kg	
108-05-4	Vinyl Acetate	ND	32	13	ug/kg	
	m,p-Xylene	ND	13	3.8	ug/kg	
95-47-6	o-Xylene	ND	6.4	2.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		78-123%
2037-26-5	Toluene-D8	91%		71-137%
460-00-4	4-Bromofluorobenzene	88%		61-157%
17060-07-0	1,2-Dichloroethane-D4	93%		74-125%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB23-4		
Lab Sample ID:	F44808-4	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	75.8
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R05779.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
Run #2							

	Initial Weight	Final Volume
Run #1	32.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	1000	410	ug/kg	
95-57-8	2-Chlorophenol	ND	200	41	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	41	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	41	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	41	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	410	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	410	81	ug/kg	
95-48-7	2-Methylphenol	ND	200	41	ug/kg	
	3&4-Methylphenol	ND	200	41	ug/kg	
88-75-5	2-Nitrophenol	ND	200	41	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	410	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	410	ug/kg	
108-95-2	Phenol	ND	200	41	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	41	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	41	ug/kg	
83-32-9	Acenaphthene	ND	200	41	ug/kg	
208-96-8	Acenaphthylene	ND	200	41	ug/kg	
120-12-7	Anthracene	ND	200	41	ug/kg	
92-87-5	Benzidine	ND	2000	1000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	200	41	ug/kg	
50-32-8	Benzo(a)pyrene	ND	200	41	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	200	41	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	200	81	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	200	41	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	200	41	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	410	100	ug/kg	
100-51-6	Benzyl Alcohol	ND	200	41	ug/kg	
91-58-7	2-Chloronaphthalene	ND	200	41	ug/kg	
106-47-8	4-Chloroaniline	ND	410	160	ug/kg	
218-01-9	Chrysene	ND	200	41	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	200	41	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	200	81	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB23-4		
Lab Sample ID:	F44808-4	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	75.8
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	200	41	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	41	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	200	41	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	200	41	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	200	41	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	200	81	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	200	81	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	410	200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	200	81	ug/kg	
132-64-9	Dibenzofuran	ND	200	41	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	410	100	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	410	200	ug/kg	
84-66-2	Diethyl phthalate	150	410	100	ug/kg	J
131-11-3	Dimethyl phthalate	ND	410	100	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	410	200	ug/kg	
206-44-0	Fluoranthene	ND	200	41	ug/kg	
86-73-7	Fluorene	ND	200	41	ug/kg	
118-74-1	Hexachlorobenzene	ND	200	41	ug/kg	
87-68-3	Hexachlorobutadiene	ND	200	81	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	200	81	ug/kg	
67-72-1	Hexachloroethane	ND	200	81	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	200	81	ug/kg	
78-59-1	Isophorone	ND	200	41	ug/kg	
91-57-6	2-Methylnaphthalene	ND	200	41	ug/kg	
88-74-4	2-Nitroaniline	ND	410	100	ug/kg	
99-09-2	3-Nitroaniline	ND	410	100	ug/kg	
100-01-6	4-Nitroaniline	ND	410	140	ug/kg	
91-20-3	Naphthalene	ND	200	41	ug/kg	
98-95-3	Nitrobenzene	ND	200	41	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	200	81	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	41	ug/kg	
85-01-8	Phenanthrene	ND	200	41	ug/kg	
129-00-0	Pyrene	ND	200	81	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	200	41	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		45-114%
4165-62-2	Phenol-d5	62%		44-124%
118-79-6	2,4,6-Tribromophenol	64%		50-128%

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Report of Analysis

Client Sample ID:	SD-08-SB23-4		
Lab Sample ID:	F44808-4	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	75.8
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		41-123%
321-60-8	2-Fluorobiphenyl	60%		46-122%
1718-51-0	Terphenyl-d14	67%		45-135%

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Report of Analysis

Client Sample ID:	SD-08-SB23-4		
Lab Sample ID:	F44808-4	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8081A SW846 3550B	**Percent Solids:**	75.8
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT03309.D	1	11/12/06	VS	11/09/06	OP18466	GTT117
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	2.2	0.87	ug/kg	
319-84-6	alpha-BHC	ND	2.2	0.87	ug/kg	
319-85-7	beta-BHC	ND	2.2	0.87	ug/kg	
319-86-8	delta-BHC	ND	2.2	0.87	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	2.2	0.87	ug/kg	
5103-71-9	alpha-Chlordane	ND	2.2	0.87	ug/kg	
5103-74-2	gamma-Chlordane	ND	2.2	0.87	ug/kg	
60-57-1	Dieldrin	ND	2.2	0.87	ug/kg	
72-54-8	4,4'-DDD	ND	4.4	0.87	ug/kg	
72-55-9	4,4'-DDE	ND	4.4	0.87	ug/kg	
50-29-3	4,4'-DDT	ND	4.4	1.3	ug/kg	
72-20-8	Endrin	ND	4.4	0.87	ug/kg	
1031-07-8	Endosulfan sulfate	ND	4.4	0.87	ug/kg	
7421-93-4	Endrin aldehyde	ND	4.4	1.7	ug/kg	
53494-70-5	Endrin ketone	ND	4.4	0.87	ug/kg	
959-98-8	Endosulfan-I	ND	2.2	0.87	ug/kg	
33213-65-9	Endosulfan-II	ND	4.4	0.87	ug/kg	
76-44-8	Heptachlor	ND	2.2	0.87	ug/kg	
1024-57-3	Heptachlor epoxide	ND	2.2	0.87	ug/kg	
72-43-5	Methoxychlor	ND	4.4	1.7	ug/kg	
8001-35-2	Toxaphene	ND	110	55	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	71%		60-142%
2051-24-3	Decachlorobiphenyl	85%		61-153%

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Report of Analysis

Client Sample ID:	SD-08-SB23-4		
Lab Sample ID:	F44808-4	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
		Percent Solids:	75.8
Project:	HOLMN		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.0	1.0	0.50	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Barium	75.9	26	0.10	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Cadmium	0.080 J	0.52	0.026	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Chromium	5.2	1.3	0.12	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Lead	2.5 J	13	0.26	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Mercury	0.0075 U	0.094	0.0075	mg/kg	1	10/31/06	10/31/06	MS	SW846 7471A [1]	SW846 7471A [3]
Selenium [a]	26 U	52	26	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Silver	0.12 U	1.3	0.12	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA5317
(2) Instrument QC Batch: MA5327
(3) Prep QC Batch: MP10605
(4) Prep QC Batch: MP10630

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SD-08-SB23-7		
Lab Sample ID:	F44808-5	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	77.3
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0040979.D	1	11/02/06	SH	10/28/06 10:50	n/a	VG1573
Run #2							

	Initial Weight
Run #1	5.20 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	62	31	ug/kg	
75-05-8	Acetonitrile	ND	62	44	ug/kg	
107-02-8	Acrolein	ND	31	19	ug/kg	
107-13-1	Acrylonitrile	ND	31	16	ug/kg	
107-05-1	Allyl chloride	ND	31	6.2	ug/kg	
71-43-2	Benzene	ND	6.2	2.5	ug/kg	
100-44-7	Benzyl Chloride	ND	6.2	3.7	ug/kg	
108-86-1	Bromobenzene	ND	6.2	2.5	ug/kg	
74-97-5	Bromochloromethane	ND	6.2	2.5	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	2.5	ug/kg	
75-25-2	Bromoform	ND	6.2	2.5	ug/kg	
104-51-8	n-Butylbenzene	ND	6.2	3.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.2	2.5	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.2	2.5	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	2.5	ug/kg	
75-00-3	Chloroethane	ND	6.2	3.7	ug/kg	
67-66-3	Chloroform	ND	6.2	2.5	ug/kg	
544-10-5	1-Chlorohexane	ND	6.2	2.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.2	2.5	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.2	2.5	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	31	16	ug/kg	
75-15-0	Carbon disulfide	ND	6.2	2.5	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.2	2.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	2.5	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.2	2.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.2	2.5	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.2	3.7	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.2	2.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.2	2.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	2.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.2	2.5	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.2	2.5	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB23-7		
Lab Sample ID:	F44808-5	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	77.3
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	6.2	2.5	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	3.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.2	2.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	2.5	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	31	6.2	ug/kg	
541-73-1	m-Dichlorobenzene	ND	6.2	2.5	ug/kg	
95-50-1	o-Dichlorobenzene	ND	6.2	2.5	ug/kg	
106-46-7	p-Dichlorobenzene	ND	6.2	2.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.2	2.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	2.5	ug/kg	
100-41-4	Ethylbenzene	ND	6.2	2.5	ug/kg	
97-63-2	Ethyl methacrylate	ND	31	6.2	ug/kg	
76-13-1	Freon 113	ND	6.2	2.5	ug/kg	
591-78-6	2-Hexanone	ND	31	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.2	2.5	ug/kg	
110-54-3	Hexane	ND	6.2	3.7	ug/kg	
98-82-8	Isopropylbenzene	ND	6.2	2.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.2	2.5	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	31	12	ug/kg	
126-98-7	Methacrylonitrile	ND	31	12	ug/kg	
74-83-9	Methyl bromide	ND	6.2	2.5	ug/kg	
74-87-3	Methyl chloride	ND	6.2	2.5	ug/kg	
74-88-4	Methyl iodide	ND	12	2.5	ug/kg	
80-62-6	Methyl methacrylate	ND	31	6.2	ug/kg	
74-95-3	Methylene bromide	ND	6.2	2.5	ug/kg	
75-09-2	Methylene chloride	ND	12	6.2	ug/kg	
78-93-3	Methyl ethyl ketone	ND	31	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.2	2.5	ug/kg	
91-20-3	Naphthalene	ND	6.2	2.5	ug/kg	
76-01-7	Pentachloroethane	ND	31	6.2	ug/kg	
107-12-0	Propionitrile	ND	62	12	ug/kg	
103-65-1	n-Propylbenzene	ND	6.2	2.5	ug/kg	
100-42-5	Styrene	ND	6.2	2.5	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.2	2.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	2.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	2.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	2.5	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	2.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.2	3.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	2.5	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB23-7		
Lab Sample ID:	F44808-5	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	77.3
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	6.2	3.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.2	2.5	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.2	2.5	ug/kg	
108-88-3	Toluene	ND	6.2	2.5	ug/kg	
79-01-6	Trichloroethylene	ND	6.2	2.5	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.2	2.5	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	31	12	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	2.5	ug/kg	
108-05-4	Vinyl Acetate	ND	31	12	ug/kg	
	m,p-Xylene	ND	12	3.7	ug/kg	
95-47-6	o-Xylene	ND	6.2	2.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		78-123%
2037-26-5	Toluene-D8	89%		71-137%
460-00-4	4-Bromofluorobenzene	88%		61-157%
17060-07-0	1,2-Dichloroethane-D4	93%		74-125%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB23-7		
Lab Sample ID:	F44808-5	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	77.3
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R05780.D	1	11/07/06	NJ	11/06/06	OP18412	SR271
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	1100	430	ug/kg	
95-57-8	2-Chlorophenol	ND	220	43	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	43	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	43	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	43	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	430	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	430	87	ug/kg	
95-48-7	2-Methylphenol	ND	220	43	ug/kg	
	3&4-Methylphenol	ND	220	43	ug/kg	
88-75-5	2-Nitrophenol	ND	220	43	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	430	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	430	ug/kg	
108-95-2	Phenol	ND	220	43	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	43	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	43	ug/kg	
83-32-9	Acenaphthene	ND	220	43	ug/kg	
208-96-8	Acenaphthylene	ND	220	43	ug/kg	
120-12-7	Anthracene	ND	220	43	ug/kg	
92-87-5	Benzidine	ND	2200	1100	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	43	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	43	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	43	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	87	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	43	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	43	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	430	110	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	43	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	43	ug/kg	
106-47-8	4-Chloroaniline	ND	430	170	ug/kg	
218-01-9	Chrysene	ND	220	43	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	43	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	87	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB23-7		
Lab Sample ID:	F44808-5	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	77.3
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	43	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	43	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	43	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	43	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	43	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	87	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	87	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	430	220	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	87	ug/kg	
132-64-9	Dibenzofuran	ND	220	43	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	430	110	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	430	220	ug/kg	
84-66-2	Diethyl phthalate	ND	430	110	ug/kg	
131-11-3	Dimethyl phthalate	ND	430	110	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	430	220	ug/kg	
206-44-0	Fluoranthene	ND	220	43	ug/kg	
86-73-7	Fluorene	ND	220	43	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	43	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	87	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	87	ug/kg	
67-72-1	Hexachloroethane	ND	220	87	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	87	ug/kg	
78-59-1	Isophorone	ND	220	43	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	43	ug/kg	
88-74-4	2-Nitroaniline	ND	430	110	ug/kg	
99-09-2	3-Nitroaniline	ND	430	110	ug/kg	
100-01-6	4-Nitroaniline	ND	430	150	ug/kg	
91-20-3	Naphthalene	ND	220	43	ug/kg	
98-95-3	Nitrobenzene	ND	220	43	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	87	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	43	ug/kg	
85-01-8	Phenanthrene	ND	220	43	ug/kg	
129-00-0	Pyrene	ND	220	87	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	43	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		45-114%
4165-62-2	Phenol-d5	65%		44-124%
118-79-6	2,4,6-Tribromophenol	68%		50-128%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB23-7		
Lab Sample ID:	F44808-5	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	77.3
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		41-123%
321-60-8	2-Fluorobiphenyl	62%		46-122%
1718-51-0	Terphenyl-d14	67%		45-135%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-SB23-7		
Lab Sample ID:	F44808-5	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
Method:	SW846 8081A SW846 3550B	**Percent Solids:**	77.3
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT03310.D	1	11/12/06	VS	11/09/06	OP18466	GTT117
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	2.1	0.86	ug/kg	
319-84-6	alpha-BHC	ND	2.1	0.86	ug/kg	
319-85-7	beta-BHC	ND	2.1	0.86	ug/kg	
319-86-8	delta-BHC	ND	2.1	0.86	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	2.1	0.86	ug/kg	
5103-71-9	alpha-Chlordane	ND	2.1	0.86	ug/kg	
5103-74-2	gamma-Chlordane	ND	2.1	0.86	ug/kg	
60-57-1	Dieldrin	ND	2.1	0.86	ug/kg	
72-54-8	4,4'-DDD	ND	4.3	0.86	ug/kg	
72-55-9	4,4'-DDE	ND	4.3	0.86	ug/kg	
50-29-3	4,4'-DDT	ND	4.3	1.3	ug/kg	
72-20-8	Endrin	ND	4.3	0.86	ug/kg	
1031-07-8	Endosulfan sulfate	ND	4.3	0.86	ug/kg	
7421-93-4	Endrin aldehyde	ND	4.3	1.7	ug/kg	
53494-70-5	Endrin ketone	ND	4.3	0.86	ug/kg	
959-98-8	Endosulfan-I	ND	2.1	0.86	ug/kg	
33213-65-9	Endosulfan-II	ND	4.3	0.86	ug/kg	
76-44-8	Heptachlor	ND	2.1	0.86	ug/kg	
1024-57-3	Heptachlor epoxide	ND	2.1	0.86	ug/kg	
72-43-5	Methoxychlor	ND	4.3	1.7	ug/kg	
8001-35-2	Toxaphene	ND	110	54	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		60-142%
2051-24-3	Decachlorobiphenyl	79%		61-153%

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RL = Reporting Limit B = Indicates analyte found in associated method blank
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Report of Analysis

Client Sample ID:	SD-08-SB23-7		
Lab Sample ID:	F44808-5	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/28/06
		Percent Solids:	77.3
Project:	HOLMN		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.99 J	1.0	0.50	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Barium	60.1	26	0.10	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Cadmium	0.027 J	0.52	0.026	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Chromium	3.5	1.3	0.12	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Lead	1.8 J	13	0.26	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Mercury	0.0078 U	0.098	0.0078	mg/kg	1	10/31/06	10/31/06	MS	SW846 7471A [1]	SW846 7471A [3]
Selenium [a]	26 U	52	26	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]
Silver	0.12 U	1.3	0.12	mg/kg	1	11/03/06	11/03/06	RS	SW846 6010B [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA5317
(2) Instrument QC Batch: MA5327
(3) Prep QC Batch: MP10605
(4) Prep QC Batch: MP10630

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F44808-6	**Date Sampled:**	10/27/06
Matrix:	SO - Trip Blank Soil	**Date Received:**	10/28/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0040980.D	1	11/02/06	SH	n/a	n/a	VG1573
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	25	ug/kg	
75-05-8	Acetonitrile	ND	50	35	ug/kg	
107-02-8	Acrolein	ND	25	15	ug/kg	
107-13-1	Acrylonitrile	ND	25	13	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	2.0	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	3.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	2.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	2.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	2.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	3.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	3.0	ug/kg	
67-66-3	Chloroform	ND	5.0	2.0	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	2.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	2.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	13	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	2.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	3.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	2.0	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F44808-6	**Date Sampled:**	10/27/06
Matrix:	SO - Trip Blank Soil	**Date Received:**	10/28/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	3.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	2.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	2.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	2.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	2.0	ug/kg	
591-78-6	2-Hexanone	ND	25	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	3.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	2.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/kg	
126-98-7	Methacrylonitrile	ND	25	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	2.0	ug/kg	
80-62-6	Methyl methacrylate	ND	25	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	10	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	2.0	ug/kg	
100-42-5	Styrene	ND	5.0	2.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.0	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F44808-6	**Date Sampled:**	10/27/06
Matrix:	SO - Trip Blank Soil	**Date Received:**	10/28/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	3.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	2.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	10	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	10	ug/kg	
	m,p-Xylene	ND	10	3.0	ug/kg	
95-47-6	o-Xylene	ND	5.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		78-123%
2037-26-5	Toluene-D8	92%		71-137%
460-00-4	4-Bromofluorobenzene	88%		61-157%
17060-07-0	1,2-Dichloroethane-D4	95%		74-125%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
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Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F44808

BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

Page 1 of 1

Project Number 9050361.01.04

P.O. NA

Chain of Custody Number [1]:102720061

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: Jim Moore

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (10 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Sample Analysis Requested [5]: VOC 8260	SVOC 8270	Pest 8081	RCRA Metals 6010/7470					Quality Assurance Samples [6]: Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Code: ID
1	*SD-08-SB21-2	SD-08-SB21-2	27/10/2006	0900	1' 2'	N	1	SO	4	☒	☒	☒	☒							1
2	*SD-08-SB21-2a	SD-08-SB21-2a	27/10/2006	0900	1' 2'	FD	1	SO	4	☒	☒	☒	☒							1
3	*SD-08-SB21-6	SD-08-SB21-6	27/10/2006	0930	5' 6'	N	1	SO	4	☒	☒	☒	☒							1
4	SD-08-SB23-4	SD-08-SB23-4	27/10/2006	1045	3' 4'	N	1	SO	4	☒	☒	☒	☒							1
5	SD-08-SB23-7	SD-08-SB23-7	27/10/2006	1115	6' 7'	N	1	SO	4	☒	☒	☒	☒							1
6	Trip Blank	Field QC	27/10/2006	0900		TB		AQ	1	☒										1

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15 * 8 oz jars OK'ed with Lab
Orlando, FL 32811 Email Results to rrenvironmental@planet-com;keving@planet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.		10-27-2006	1600			
2.						
3.					10/27/06	9:00

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FEDEX Airbill Number:

Analytical Lab: Accutest Lab Delivery Location: Orlando FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-03-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-t) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SS = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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5.1

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F44808: Chain of Custody

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44808 CLIENT: Bhate PROJECT: SD 08

DATE/TIME RECEIVED: 10/25/06 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 3.2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

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

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [x] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 15

NUMBER OF 5035 FIELD KITS ? trip

NUMBER OR LAB FILTERED METALS ? 2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 10/25/06 TECHNICIAN SIGNATURE/DATE ASBD 10/03/06

5.1 5

F44808: Chain of Custody
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Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1573-MB	G0040961.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5, F44808-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	25	ug/kg	
75-05-8	Acetonitrile	ND	50	35	ug/kg	
107-02-8	Acrolein	ND	25	15	ug/kg	
107-13-1	Acrylonitrile	ND	25	13	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	2.0	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	3.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	2.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	2.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	2.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	3.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	3.0	ug/kg	
67-66-3	Chloroform	ND	5.0	2.0	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	2.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	2.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	13	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	2.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	3.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	3.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	

Method Blank Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1573-MB	G0040961.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5, F44808-6

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	2.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	2.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	2.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	2.0	ug/kg	
591-78-6	2-Hexanone	ND	25	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	3.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	2.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/kg	
126-98-7	Methacrylonitrile	ND	25	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	2.0	ug/kg	
80-62-6	Methyl methacrylate	ND	25	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	10	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	2.0	ug/kg	
100-42-5	Styrene	ND	5.0	2.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.0	ug/kg	

Method Blank Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1573-MB	G0040961.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5, F44808-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	3.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	2.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	10	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	10	ug/kg	
	m,p-Xylene	ND	10	3.0	ug/kg	
95-47-6	o-Xylene	ND	5.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	78-123%
2037-26-5	Toluene-D8	91%	71-137%
460-00-4	4-Bromofluorobenzene	94%	61-157%
17060-07-0	1,2-Dichloroethane-D4	97%	74-125%

Blank Spike Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1573-BS	G0040960.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5, F44808-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	233	93	51-136
75-05-8	Acetonitrile	500	425	85	50-150 [a]
107-02-8	Acrolein	250	464	186*	28-180
107-13-1	Acrylonitrile	250	258	103	43-151
107-05-1	Allyl chloride	50	47.6	95	50-150 [a]
71-43-2	Benzene	50	55.8	112	74-124
100-44-7	Benzyl Chloride	50	51.4	103	50-150 [a]
108-86-1	Bromobenzene	50	53.2	106	78-117
74-97-5	Bromochloromethane	50	50.9	102	77-126
75-27-4	Bromodichloromethane	50	51.9	104	74-124
75-25-2	Bromoform	50	49.9	100	79-127
104-51-8	n-Butylbenzene	50	56.5	113	75-131
135-98-8	sec-Butylbenzene	50	58.1	116	78-128
98-06-6	tert-Butylbenzene	50	56.1	112	76-126
108-90-7	Chlorobenzene	50	54.7	109	78-117
75-00-3	Chloroethane	50	60.4	121	63-147
67-66-3	Chloroform	50	56.9	114	75-121
544-10-5	1-Chlorohexane	50	58.2	116	76-137
95-49-8	o-Chlorotoluene	50	54.5	109	79-124
106-43-4	p-Chlorotoluene	50	56.0	112	79-124
110-75-8	2-Chloroethyl vinyl ether	250	264	106	31-165
75-15-0	Carbon disulfide	50	59.6	119	59-148
56-23-5	Carbon tetrachloride	50	57.9	116	67-131
75-34-3	1,1-Dichloroethane	50	57.3	115	71-118
75-35-4	1,1-Dichloroethylene	50	56.3	113	64-126
563-58-6	1,1-Dichloropropene	50	56.8	114	73-132
96-12-8	1,2-Dibromo-3-chloropropane	50	47.7	95	71-128
106-93-4	1,2-Dibromoethane	50	51.2	102	78-117
107-06-2	1,2-Dichloroethane	50	52.9	106	72-120
78-87-5	1,2-Dichloropropane	50	54.3	109	74-126
142-28-9	1,3-Dichloropropane	50	51.0	102	77-117
594-20-7	2,2-Dichloropropane	50	59.5	119	66-126
124-48-1	Dibromochloromethane	50	51.4	103	78-120
75-71-8	Dichlorodifluoromethane	50	31.8	64	33-172
156-59-2	cis-1,2-Dichloroethylene	50	53.9	108	75-124
10061-01-5	cis-1,3-Dichloropropene	50	55.3	111	72-120

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1573-BS	G0040960.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5, F44808-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	50	46.8	94	50-150 [a]
541-73-1	m-Dichlorobenzene	50	56.5	113	79-119
95-50-1	o-Dichlorobenzene	50	55.7	111	78-119
106-46-7	p-Dichlorobenzene	50	57.4	115	78-117
156-60-5	trans-1,2-Dichloroethylene	50	55.6	111	70-122
10061-02-6	trans-1,3-Dichloropropene	50	56.9	114	75-118
100-41-4	Ethylbenzene	50	54.4	109	77-120
97-63-2	Ethyl methacrylate	50	47.5	95	50-150 [a]
76-13-1	Freon 113	50	58.2	116	66-147
591-78-6	2-Hexanone	250	232	93	68-136
87-68-3	Hexachlorobutadiene	50	59.1	118	69-139
110-54-3	Hexane	50	57.7	115	55-166
98-82-8	Isopropylbenzene	50	58.7	117	79-134
99-87-6	p-Isopropyltoluene	50	58.4	117	80-134
108-10-1	4-Methyl-2-pentanone	250	231	92	69-136
126-98-7	Methacrylonitrile	500	488	98	50-150 [a]
74-83-9	Methyl bromide	50	51.7	103	52-156
74-87-3	Methyl chloride	50	58.2	116	63-142
74-88-4	Methyl iodide	50	53.0	106	65-133
80-62-6	Methyl methacrylate	50	46.4	93	63-143
74-95-3	Methylene bromide	50	52.3	105	74-121
75-09-2	Methylene chloride	50	57.1	114	51-142
78-93-3	Methyl ethyl ketone	250	233	93	63-138
1634-04-4	Methyl Tert Butyl Ether	50	50.7	101	77-131
91-20-3	Naphthalene	50	52.3	105	75-134
76-01-7	Pentachloroethane	50	55.1	110	50-150 [a]
107-12-0	Propionitrile	500	496	99	50-150 [a]
103-65-1	n-Propylbenzene	50	56.5	113	77-125
100-42-5	Styrene	50	53.6	107	74-120
630-20-6	1,1,1,2-Tetrachloroethane	50	52.7	105	76-118
71-55-6	1,1,1-Trichloroethane	50	58.3	117	70-131
79-34-5	1,1,2,2-Tetrachloroethane	50	51.8	104	76-121
79-00-5	1,1,2-Trichloroethane	50	50.0	100	77-118
87-61-6	1,2,3-Trichlorobenzene	50	56.5	113	76-129
96-18-4	1,2,3-Trichloropropane	50	52.3	105	75-121
120-82-1	1,2,4-Trichlorobenzene	50	56.3	113	73-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG1573-BS	G0040960.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5, F44808-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	50	55.1	110	79-121
108-67-8	1,3,5-Trimethylbenzene	50	56.2	112	78-126
127-18-4	Tetrachloroethylene	50	53.9	108	68-127
108-88-3	Toluene	50	54.0	108	74-118
79-01-6	Trichloroethylene	50	57.9	116	72-122
75-69-4	Trichlorofluoromethane	50	54.9	110	60-147
110-57-6	Trans-1,4-Dichloro-2-Butene	50	50.9	102	68-131
75-01-4	Vinyl chloride	50	45.4	91	64-144
108-05-4	Vinyl Acetate	250	354	142*	47-132
	m,p-Xylene	100	112	112	79-122
95-47-6	o-Xylene	50	54.7	109	75-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	78-123%
2037-26-5	Toluene-D8	97%	71-137%
460-00-4	4-Bromofluorobenzene	96%	61-157%
17060-07-0	1,2-Dichloroethane-D4	98%	74-125%

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44735-2MS	G0040964.D	1	11/02/06	SH	n/a	n/a	VG1573
F44735-2MSD	G0040965.D	1	11/02/06	SH	n/a	n/a	VG1573
F44735-2	G0040962.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5, F44808-6

CAS No.	Compound	F44735-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		339	209	62	348	253	73	19	14-140/33
75-05-8	Acetonitrile	ND		677	366	54	696	424	61	15	50-150/30 [a]
107-02-8	Acrolein	ND		339	706	208*	348	758	218*	7	20-144/42
107-13-1	Acrylonitrile	ND		339	245	72	348	280	80	13	22-116/31
107-05-1	Allyl chloride	ND		67.7	58.5	86	69.6	61.7	89	5	50-150/30 [a]
71-43-2	Benzene	ND		67.7	68.0	100	69.6	74.6	107	9	63-135/23
100-44-7	Benzyl Chloride	ND		67.7	51.5	76	69.6	55.9	80	8	50-150/30 [a]
108-86-1	Bromobenzene	ND		67.7	64.4	95	69.6	76.2	109	17	56-145/30
74-97-5	Bromochloromethane	ND		67.7	58.5	86	69.6	65.5	94	11	64-120/23
75-27-4	Bromodichloromethane	ND		67.7	62.7	93	69.6	68.6	99	9	63-126/23
75-25-2	Bromoform	ND		67.7	53.8	79	69.6	59.0	85	9	54-109/24
104-51-8	n-Butylbenzene	ND		67.7	72.5	107	69.6	83.6	120	14	45-159/32
135-98-8	sec-Butylbenzene	ND		67.7	73.7	109	69.6	81.3	117	10	54-164/31
98-06-6	tert-Butylbenzene	ND		67.7	69.9	103	69.6	79.2	114	12	60-161/30
108-90-7	Chlorobenzene	ND		67.7	67.8	100	69.6	72.7	104	7	64-130/24
75-00-3	Chloroethane	ND		67.7	78.0	115	69.6	87.7	126	12	53-172/28
67-66-3	Chloroform	ND		67.7	69.5	103	69.6	75.6	109	8	68-131/24
544-10-5	1-Chlorohexane	ND		67.7	72.8	107	69.6	77.0	111	6	52-162/26
95-49-8	o-Chlorotoluene	ND		67.7	66.6	98	69.6	76.3	110	14	59-162/32
106-43-4	p-Chlorotoluene	ND		67.7	68.4	101	69.6	77.1	111	12	59-155/29
110-75-8	2-Chloroethyl vinyl ether	ND		339	276	81	348	309	89	11	16-159/31
75-15-0	Carbon disulfide	ND		67.7	71.3	105	69.6	79.2	114	10	47-165/29
56-23-5	Carbon tetrachloride	ND		67.7	70.9	105	69.6	75.1	108	6	64-148/24
75-34-3	1,1-Dichloroethane	ND		67.7	69.6	103	69.6	75.4	108	8	64-130/25
75-35-4	1,1-Dichloroethylene	ND		67.7	68.4	101	69.6	74.1	106	8	55-149/28
563-58-6	1,1-Dichloropropene	ND		67.7	71.9	106	69.6	77.1	111	7	67-148/25
96-12-8	1,2-Dibromo-3-chloropropane	ND		67.7	45.5	67	69.6	52.0	75	13	39-105/33
106-93-4	1,2-Dibromoethane	ND		67.7	54.9	81	69.6	60.0	86	9	55-107/24
107-06-2	1,2-Dichloroethane	ND		67.7	59.9	88	69.6	66.0	95	10	60-114/22
78-87-5	1,2-Dichloropropane	ND		67.7	63.7	94	69.6	72.1	104	12	65-128/23
142-28-9	1,3-Dichloropropane	ND		67.7	56.0	83	69.6	61.3	88	9	58-114/25
594-20-7	2,2-Dichloropropane	ND		67.7	70.5	104	69.6	73.3	105	4	60-144/27
124-48-1	Dibromochloromethane	ND		67.7	57.8	85	69.6	61.9	89	7	60-119/23
75-71-8	Dichlorodifluoromethane	ND		67.7	38.7	57	69.6	43.4	62	11	41-185/30
156-59-2	cis-1,2-Dichloroethylene	ND		67.7	65.5	97	69.6	69.3	100	6	66-132/24
10061-01-5	cis-1,3-Dichloropropene	ND		67.7	64.0	94	69.6	70.8	102	10	57-118/25

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44735-2MS	G0040964.D	1	11/02/06	SH	n/a	n/a	VG1573
F44735-2MSD	G0040965.D	1	11/02/06	SH	n/a	n/a	VG1573
F44735-2	G0040962.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5, F44808-6

CAS No.	Compound	F44735-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	ND		67.7	48.3	71	69.6	57.2	82	17	50-150/30 [a]
541-73-1	m-Dichlorobenzene	ND		67.7	69.7	103	69.6	77.5	111	11	59-138/28
95-50-1	o-Dichlorobenzene	ND		67.7	66.3	98	69.6	75.6	109	13	56-128/27
106-46-7	p-Dichlorobenzene	ND		67.7	69.4	102	69.6	79.0	113	13	57-134/26
156-60-5	trans-1,2-Dichloroethylene	ND		67.7	69.0	102	69.6	74.4	107	8	63-137/27
10061-02-6	trans-1,3-Dichloropropene	ND		67.7	65.2	96	69.6	70.1	101	7	58-115/25
100-41-4	Ethylbenzene	ND		67.7	67.6	100	69.6	71.9	103	6	63-142/25
97-63-2	Ethyl methacrylate	ND		67.7	49.7	73	69.6	55.7	80	11	50-150/30 [a]
76-13-1	Freon 113	ND		67.7	70.6	104	69.6	78.4	113	10	61-169/28
591-78-6	2-Hexanone	ND		339	225	66	348	253	73	12	35-109/34
87-68-3	Hexachlorobutadiene	ND		67.7	71.7	106	69.6	79.0	113	10	17-160/37
110-54-3	Hexane	ND		67.7	67.2	99	69.6	73.1	105	8	28-170/32
98-82-8	Isopropylbenzene	ND		67.7	72.3	107	69.6	76.8	110	6	59-177/29
99-87-6	p-Isopropyltoluene	ND		67.7	71.1	105	69.6	79.5	114	11	53-168/31
108-10-1	4-Methyl-2-pentanone	ND		339	234	69	348	257	74	9	44-99/32
126-98-7	Methacrylonitrile	ND		677	480	71	696	551	79	14	50-150/30 [a]
74-83-9	Methyl bromide	ND		67.7	83.0	123	69.6	86.1	124	4	38-188/27
74-87-3	Methyl chloride	ND		67.7	70.0	103	69.6	76.9	110	9	57-160/29
74-88-4	Methyl iodide	ND		67.7	64.1	95	69.6	72.1	104	12	52-150/30
80-62-6	Methyl methacrylate	ND		67.7	47.8	71	69.6	55.0	79	14	56-106/27
74-95-3	Methylene bromide	ND		67.7	58.5	86	69.6	64.2	92	9	56-109/24
75-09-2	Methylene chloride	10.4	J	67.7	73.6	93	69.6	80.6	101	9	40-183/34
78-93-3	Methyl ethyl ketone	ND		339	212	63	348	249	72	16	27-112/32
1634-04-4	Methyl Tert Butyl Ether	ND		67.7	54.9	81	69.6	61.9	89	12	53-122/28
91-20-3	Naphthalene	ND		67.7	52.7	78	69.6	61.4	88	15	20-116/35
76-01-7	Pentachloroethane	ND		67.7	63.1	93	69.6	70.3	101	11	50-150/30 [a]
107-12-0	Propionitrile	ND		677	461	68	696	522	75	12	50-150/30 [a]
103-65-1	n-Propylbenzene	ND		67.7	69.8	103	69.6	80.7	116	14	59-163/31
100-42-5	Styrene	ND		67.7	64.9	96	69.6	69.4	100	7	54-130/26
630-20-6	1,1,1,2-Tetrachloroethane	ND		67.7	64.7	96	69.6	70.0	101	8	64-131/24
71-55-6	1,1,1-Trichloroethane	ND		67.7	72.2	107	69.6	77.2	111	7	70-149/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		67.7	53.0	78	69.6	63.1	91	17	45-121/33
79-00-5	1,1,2-Trichloroethane	ND		67.7	55.9	83	69.6	60.9	87	9	60-114/25
87-61-6	1,2,3-Trichlorobenzene	ND		67.7	63.4	94	69.6	71.4	103	12	24-135/31
96-18-4	1,2,3-Trichloropropane	ND		67.7	53.9	80	69.6	62.0	89	14	39-125/32
120-82-1	1,2,4-Trichlorobenzene	ND		67.7	66.7	98	69.6	74.9	108	12	23-142/31

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44735-2MS	G0040964.D	1	11/02/06	SH	n/a	n/a	VG1573
F44735-2MSD	G0040965.D	1	11/02/06	SH	n/a	n/a	VG1573
F44735-2	G0040962.D	1	11/02/06	SH	n/a	n/a	VG1573

The QC reported here applies to the following samples: **Method:** SW846 8260B

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5, F44808-6

CAS No.	Compound	F44735-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	ND		67.7	69.6	103	69.6	78.2	112	12	50-161/32
108-67-8	1,3,5-Trimethylbenzene	ND		67.7	70.4	104	69.6	79.7	114	12	57-164/31
127-18-4	Tetrachloroethylene	ND		67.7	72.6	107	69.6	78.6	113	8	54-154/27
108-88-3	Toluene	ND		67.7	68.0	100	69.6	73.2	105	7	62-142/29
79-01-6	Trichloroethylene	ND		67.7	69.6	103	69.6	76.2	109	9	59-143/25
75-69-4	Trichlorofluoromethane	ND		67.7	68.0	100	69.6	76.2	109	11	59-171/28
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		67.7	52.6	78	69.6	62.1	89	17	41-114/31
75-01-4	Vinyl chloride	ND		67.7	55.0	81	69.6	62.3	90	12	64-165/27
108-05-4	Vinyl Acetate	ND		339	331	98	348	361	104	9	13-113/42
	m,p-Xylene	ND		135	140	103	139	149	107	6	61-146/25
95-47-6	o-Xylene	ND		67.7	67.4	99	69.6	72.3	104	7	60-141/25

CAS No.	Surrogate Recoveries	MS	MSD	F44735-2	Limits
1868-53-7	Dibromofluoromethane	101%	99%	99%	78-123%
2037-26-5	Toluene-D8	99%	97%	93%	71-137%
460-00-4	4-Bromofluorobenzene	94%	98%	95%	61-157%
17060-07-0	1,2-Dichloroethane-D4	95%	89%	95%	74-125%

(a) Advisory control limits.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-MB	R05761.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	330	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
92-87-5	Benzidine	ND	1700	830	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-MB	R05761.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
88-74-4	2-Nitroaniline	ND	330	83	ug/kg	
99-09-2	3-Nitroaniline	ND	330	83	ug/kg	
100-01-6	4-Nitroaniline	ND	330	120	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	85%	45-114%
4165-62-2	Phenol-d5	87%	44-124%

Method Blank Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-MB	R05761.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	87%	50-128%
4165-60-0	Nitrobenzene-d5	79%	41-123%
321-60-8	2-Fluorobiphenyl	81%	46-122%
1718-51-0	Terphenyl-d14	80%	45-135%

Blank Spike Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-BS	R05760.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	3330	1960	59	48-121
95-57-8	2-Chlorophenol	1670	1070	64	61-101
59-50-7	4-Chloro-3-methyl phenol	1670	1180	71	63-107
120-83-2	2,4-Dichlorophenol	1670	1160	70	65-106
105-67-9	2,4-Dimethylphenol	1670	964	58	53-96
51-28-5	2,4-Dinitrophenol	3330	2020	61	42-122
534-52-1	4,6-Dinitro-o-cresol	3330	2400	72	60-122
95-48-7	2-Methylphenol	1670	1020	61	58-98
	3&4-Methylphenol	3330	2220	67	58-99
88-75-5	2-Nitrophenol	1670	1100	66	59-103
100-02-7	4-Nitrophenol	3330	2340	70	66-111
87-86-5	Pentachlorophenol	3330	2610	78	58-120
108-95-2	Phenol	1670	1110	67	59-104
95-95-4	2,4,5-Trichlorophenol	1670	1130	68	65-105
88-06-2	2,4,6-Trichlorophenol	1670	1200	72	66-106
83-32-9	Acenaphthene	1670	1200	72	63-100
208-96-8	Acenaphthylene	1670	1170	70	62-100
120-12-7	Anthracene	1670	1250	75	67-104
56-55-3	Benzo(a)anthracene	1670	1110	67	66-107
50-32-8	Benzo(a)pyrene	1670	1230	74	63-106
205-99-2	Benzo(b)fluoranthene	1670	1270	76	65-110
191-24-2	Benzo(g,h,i)perylene	1670	1170	70	60-107
207-08-9	Benzo(k)fluoranthene	1670	1290	77	66-111
101-55-3	4-Bromophenyl phenyl ether	1670	1230	74	66-108
85-68-7	Butyl benzyl phthalate	1670	1070	64	62-112
100-51-6	Benzyl Alcohol	1670	1130	68	60-103
91-58-7	2-Chloronaphthalene	1670	1130	68	62-98
106-47-8	4-Chloroaniline	1670	828	50	20-87
218-01-9	Chrysene	1670	1130	68	66-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1010	61	54-98
111-44-4	bis(2-Chloroethyl)ether	1670	1040	62	57-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	966	58	48-102
7005-72-3	4-Chlorophenyl phenyl ether	1670	1170	70	65-106
95-50-1	1,2-Dichlorobenzene	1670	1020	61	50-97
541-73-1	1,3-Dichlorobenzene	1670	960	58	46-94
106-46-7	1,4-Dichlorobenzene	1670	997	60	47-95

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-BS	R05760.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1170	70	60-107
606-20-2	2,6-Dinitrotoluene	1670	1110	67	59-103
91-94-1	3,3'-Dichlorobenzidine	1670	785	47	32-91
53-70-3	Dibenzo(a,h)anthracene	1670	1210	73	59-108
132-64-9	Dibenzofuran	1670	1150	69	64-103
84-74-2	Di-n-butyl phthalate	1670	1150	69	64-109
117-84-0	Di-n-octyl phthalate	1670	1230	74	64-123
84-66-2	Diethyl phthalate	1670	1180	71	61-112
131-11-3	Dimethyl phthalate	1670	1170	70	63-107
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1040	62	62-114
206-44-0	Fluoranthene	1670	1260	76	64-110
86-73-7	Fluorene	1670	1200	72	63-102
118-74-1	Hexachlorobenzene	1670	1230	74	64-104
87-68-3	Hexachlorobutadiene	1670	1010	61	56-99
77-47-4	Hexachlorocyclopentadiene	1670	1100	66	32-93
67-72-1	Hexachloroethane	1670	945	57	47-96
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1200	72	60-110
78-59-1	Isophorone	1670	1140	68	60-100
91-57-6	2-Methylnaphthalene	1670	1150	69	60-104
88-74-4	2-Nitroaniline	1670	1210	73	61-105
99-09-2	3-Nitroaniline	1670	819	49	34-84
100-01-6	4-Nitroaniline	1670	1080	65	53-105
91-20-3	Naphthalene	1670	1080	65	58-96
98-95-3	Nitrobenzene	1670	1080	65	58-98
621-64-7	N-Nitroso-di-n-propylamine	1670	1080	65	54-95
86-30-6	N-Nitrosodiphenylamine	1670	1180	71	66-106
85-01-8	Phenanthrene	1670	1250	75	66-105
129-00-0	Pyrene	1670	1130	68	66-109
120-82-1	1,2,4-Trichlorobenzene	1670	1060	64	58-97

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	67%	45-114%
4165-62-2	Phenol-d5	69%	44-124%
118-79-6	2,4,6-Tribromophenol	76%	50-128%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-BS	R05760.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	64%	41-123%
321-60-8	2-Fluorobiphenyl	67%	46-122%
1718-51-0	Terphenyl-d14	67%	45-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-MS	R05766.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
OP18412-MSD	R05767.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
F44735-2	R05765.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Compound	F44735-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		4810	1930	40	4840	1170	24	49*	10-124/35
95-57-8	2-Chlorophenol	ND		2410	1630	68	2420	1630	67	0	46-99/28
59-50-7	4-Chloro-3-methyl phenol	ND		2410	1710	71	2420	1670	69	2	51-106/24
120-83-2	2,4-Dichlorophenol	ND		2410	1710	71	2420	1690	70	1	51-105/24
105-67-9	2,4-Dimethylphenol	ND		2410	1420	59	2420	1380	57	3	47-95/27
51-28-5	2,4-Dinitrophenol	ND		4810	1530	32	4840	1040	21	38	10-114/50
534-52-1	4,6-Dinitro-o-cresol	ND		4810	2360	49	4840	1700	35	33	11-120/39
95-48-7	2-Methylphenol	ND		2410	1530	64	2420	1550	64	1	48-96/26
	3&4-Methylphenol	ND		4810	3270	68	4840	3260	67	0	50-95/26
88-75-5	2-Nitrophenol	ND		2410	1640	68	2420	1640	68	0	36-109/29
100-02-7	4-Nitrophenol	ND		4810	3500	73	4840	3200	66	9	50-107/25
87-86-5	Pentachlorophenol	ND		4810	3700	77	4840	3200	66	14	45-118/30
108-95-2	Phenol	ND		2410	1680	70	2420	1700	70	1	44-105/27
95-95-4	2,4,5-Trichlorophenol	ND		2410	1710	71	2420	1650	68	4	58-101/23
88-06-2	2,4,6-Trichlorophenol	ND		2410	1730	72	2420	1680	69	3	56-103/23
83-32-9	Acenaphthene	ND		2410	1730	72	2420	1720	71	1	47-106/28
208-96-8	Acenaphthylene	ND		2410	1710	71	2420	1690	70	1	48-102/24
120-12-7	Anthracene	ND		2410	1820	76	2420	1780	73	2	52-108/26
92-87-5	Benzidine	ND		2410	ND	0*	2420	ND	0*	nc	10-151/50
56-55-3	Benzo(a)anthracene	ND		2410	1600	67	2420	1540	64	4	54-106/26
50-32-8	Benzo(a)pyrene	ND		2410	1800	75	2420	1760	73	2	53-104/25
205-99-2	Benzo(b)fluoranthene	ND		2410	1850	77	2420	1820	75	2	53-109/27
191-24-2	Benzo(g,h,i)perylene	ND		2410	1670	69	2420	1640	68	2	53-104/28
207-08-9	Benzo(k)fluoranthene	ND		2410	1820	76	2420	1780	73	2	55-107/29
101-55-3	4-Bromophenyl phenyl ether	ND		2410	1780	74	2420	1730	71	3	59-102/23
85-68-7	Butyl benzyl phthalate	ND		2410	1520	63	2420	1470	61	3	58-105/23
100-51-6	Benzyl Alcohol	ND		2410	1760	73	2420	1810	75	3	52-97/30
91-58-7	2-Chloronaphthalene	ND		2410	1670	69	2420	1650	68	1	54-92/24
106-47-8	4-Chloroaniline	ND		2410	1240	52	2420	1080	45	14	21-92/35
218-01-9	Chrysene	ND		2410	1630	68	2420	1570	65	4	54-108/26
111-91-1	bis(2-Chloroethoxy)methane	ND		2410	1480	62	2420	1500	62	1	44-94/27
111-44-4	bis(2-Chloroethyl)ether	ND		2410	1600	67	2420	1580	65	1	40-104/30
108-60-1	bis(2-Chloroisopropyl)ether	ND		2410	1460	61	2420	1450	60	1	40-91/29
7005-72-3	4-Chlorophenyl phenyl ether	ND		2410	1720	72	2420	1700	70	1	57-101/22
95-50-1	1,2-Dichlorobenzene	ND		2410	1550	64	2420	1580	65	2	36-88/34
541-73-1	1,3-Dichlorobenzene	ND		2410	1450	60	2420	1510	62	4	30-85/33

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-MS	R05766.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
OP18412-MSD	R05767.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
F44735-2	R05765.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Compound	F44735-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		2410	1470	61	2420	1520	63	3	30-87/33
121-14-2	2,4-Dinitrotoluene	ND		2410	1760	73	2420	1700	70	3	46-105/28
606-20-2	2,6-Dinitrotoluene	ND		2410	1690	70	2420	1600	66	5	46-102/26
91-94-1	3,3'-Dichlorobenzidine	ND		2410	1250	52	2420	1140	47	9	22-104/35
53-70-3	Dibenzo(a,h)anthracene	ND		2410	1720	72	2420	1690	70	2	53-103/26
132-64-9	Dibenzofuran	ND		2410	1690	70	2420	1690	70	0	53-103/27
84-74-2	Di-n-butyl phthalate	ND		2410	1670	69	2420	1640	68	2	55-104/22
117-84-0	Di-n-octyl phthalate	ND		2410	1760	73	2420	1750	72	1	61-115/24
84-66-2	Diethyl phthalate	ND		2410	1750	73	2420	1690	70	3	54-104/22
131-11-3	Dimethyl phthalate	ND		2410	1720	72	2420	1670	69	3	55-100/22
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2410	1480	62	2420	1480	61	0	56-110/25
206-44-0	Fluoranthene	ND		2410	1850	77	2420	1800	74	3	52-109/28
86-73-7	Fluorene	ND		2410	1770	74	2420	1720	71	3	55-99/26
118-74-1	Hexachlorobenzene	ND		2410	1740	72	2420	1700	70	2	57-99/23
87-68-3	Hexachlorobutadiene	ND		2410	1520	63	2420	1530	63	1	36-97/35
77-47-4	Hexachlorocyclopentadiene	ND		2410	1580	66	2420	1570	65	1	10-88/50
67-72-1	Hexachloroethane	ND		2410	1410	59	2420	1450	60	3	22-90/41
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2410	1720	72	2420	1650	68	4	53-108/29
78-59-1	Isophorone	ND		2410	1660	69	2420	1680	69	1	46-99/26
91-57-6	2-Methylnaphthalene	ND		2410	1690	70	2420	1740	72	3	45-104/28
88-74-4	2-Nitroaniline	ND		2410	1730	72	2420	1750	72	1	51-104/23
99-09-2	3-Nitroaniline	ND		2410	1300	54	2420	1200	50	8	30-94/31
100-01-6	4-Nitroaniline	ND		2410	1660	69	2420	1550	64	7	39-100/27
91-20-3	Naphthalene	ND		2410	1630	68	2420	1610	66	1	44-94/31
98-95-3	Nitrobenzene	ND		2410	1620	67	2420	1610	66	1	43-97/29
621-64-7	N-Nitroso-di-n-propylamine	ND		2410	1620	67	2420	1620	67	0	40-98/27
86-30-6	N-Nitrosodiphenylamine	ND		2410	1690	70	2420	1650	68	2	55-104/22
85-01-8	Phenanthrene	ND		2410	1830	76	2420	1770	73	3	53-106/26
129-00-0	Pyrene	ND		2410	1630	68	2420	1550	64	5	55-111/30
120-82-1	1,2,4-Trichlorobenzene	ND		2410	1570	65	2420	1600	66	2	41-95/32

CAS No.	Surrogate Recoveries	MS	MSD	F44735-2	Limits
367-12-4	2-Fluorophenol	73%	72%	68%	45-114%
4165-62-2	Phenol-d5	73%	73%	70%	44-124%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-MS	R05766.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
OP18412-MSD	R05767.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
F44735-2	R05765.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Surrogate Recoveries	MS	MSD	F44735-2	Limits
118-79-6	2,4,6-Tribromophenol	78%	75%	73%	50-128%
4165-60-0	Nitrobenzene-d5	68%	66%	64%	41-123%
321-60-8	2-Fluorobiphenyl	68%	66%	64%	46-122%
1718-51-0	Terphenyl-d14	66%	64%	67%	45-135%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18466-MB	TT03305.D	1	11/12/06	VS	11/09/06	OP18466	GTT117

The QC reported here applies to the following samples: **Method:** SW846 8081A

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.67	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.67	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.67	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.67	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.7	0.67	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.7	0.67	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.67	ug/kg	
72-54-8	4,4'-DDD	ND	3.3	0.67	ug/kg	
72-55-9	4,4'-DDE	ND	3.3	0.67	ug/kg	
50-29-3	4,4'-DDT	ND	3.3	1.0	ug/kg	
72-20-8	Endrin	ND	3.3	0.67	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	1.3	ug/kg	
53494-70-5	Endrin ketone	ND	3.3	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.67	ug/kg	
33213-65-9	Endosulfan-II	ND	3.3	0.67	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.67	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.67	ug/kg	
72-43-5	Methoxychlor	ND	3.3	1.3	ug/kg	
8001-35-2	Toxaphene	ND	83	42	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	78%	60-142%
2051-24-3	Decachlorobiphenyl	87%	61-153%

Method Blank Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18466-MB	TT03349.D	1	11/13/06	VS	11/09/06	OP18466	GTT118

The QC reported here applies to the following samples: **Method:** SW846 8081A

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.67	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.67	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.67	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.67	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.7	0.67	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.7	0.67	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.67	ug/kg	
72-54-8	4,4'-DDD	ND	3.3	0.67	ug/kg	
72-55-9	4,4'-DDE	ND	3.3	0.67	ug/kg	
50-29-3	4,4'-DDT	ND	3.3	1.0	ug/kg	
72-20-8	Endrin	ND	3.3	0.67	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	1.3	ug/kg	
53494-70-5	Endrin ketone	ND	3.3	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.67	ug/kg	
33213-65-9	Endosulfan-II	ND	3.3	0.67	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.67	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.67	ug/kg	
72-43-5	Methoxychlor	ND	3.3	1.3	ug/kg	
8001-35-2	Toxaphene	ND	83	42	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	82%	60-142%
2051-24-3	Decachlorobiphenyl	90%	61-153%

Method Blank Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18466-MB	TT03403.D	1	11/15/06	VS	11/09/06	OP18466	GTT120

The QC reported here applies to the following samples: **Method:** SW846 8081A

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	10	4.0	ug/kg	
319-84-6	alpha-BHC	ND	10	4.0	ug/kg	
319-85-7	beta-BHC	ND	10	4.0	ug/kg	
319-86-8	delta-BHC	ND	10	4.0	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	10	4.0	ug/kg	
5103-71-9	alpha-Chlordane	ND	10	4.0	ug/kg	
5103-74-2	gamma-Chlordane	ND	10	4.0	ug/kg	
60-57-1	Dieldrin	ND	10	4.0	ug/kg	
72-54-8	4,4'-DDD	ND	20	4.0	ug/kg	
72-55-9	4,4'-DDE	ND	20	4.0	ug/kg	
50-29-3	4,4'-DDT	ND	20	6.0	ug/kg	
72-20-8	Endrin	ND	20	4.0	ug/kg	
1031-07-8	Endosulfan sulfate	ND	20	4.0	ug/kg	
7421-93-4	Endrin aldehyde	ND	20	8.0	ug/kg	
53494-70-5	Endrin ketone	ND	20	4.0	ug/kg	
959-98-8	Endosulfan-I	ND	10	4.0	ug/kg	
33213-65-9	Endosulfan-II	ND	20	4.0	ug/kg	
76-44-8	Heptachlor	ND	10	4.0	ug/kg	
1024-57-3	Heptachlor epoxide	ND	10	4.0	ug/kg	
72-43-5	Methoxychlor	ND	20	8.0	ug/kg	
8001-35-2	Toxaphene	ND	500	250	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	78%	60-142%
2051-24-3	Decachlorobiphenyl	87%	61-153%

Blank Spike Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18466-BS	TT03304.D	1	11/12/06	VS	11/09/06	OP18466	GTT117

The QC reported here applies to the following samples: **Method:** SW846 8081A

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	15.8	95	67-130
319-84-6	alpha-BHC	16.7	15.6	94	70-135
319-85-7	beta-BHC	16.7	15.6	94	75-130
319-86-8	delta-BHC	16.7	11.4	68	53-126
58-89-9	gamma-BHC (Lindane)	16.7	15.5	93	73-136
5103-71-9	alpha-Chlordane	16.7	15.9	95	78-129
5103-74-2	gamma-Chlordane	16.7	16.5	99	78-132
60-57-1	Dieldrin	16.7	16.1	97	79-136
72-54-8	4,4'-DDD	16.7	16.3	98	76-142
72-55-9	4,4'-DDE	16.7	16.4	98	78-143
50-29-3	4,4'-DDT	16.7	16.7	100	84-141
72-20-8	Endrin	16.7	17.3	104	79-138
1031-07-8	Endosulfan sulfate	16.7	15.0	90	78-128
7421-93-4	Endrin aldehyde	16.7	13.3	80	5-103
53494-70-5	Endrin ketone	16.7	15.5	93	79-129
959-98-8	Endosulfan-I	16.7	15.3	92	79-128
33213-65-9	Endosulfan-II	16.7	15.7	94	78-132
76-44-8	Heptachlor	16.7	15.6	94	71-136
1024-57-3	Heptachlor epoxide	16.7	15.5	93	76-133
72-43-5	Methoxychlor	16.7	15.5	93	81-137

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	88%	60-142%
2051-24-3	Decachlorobiphenyl	91%	61-153%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44808
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18466-MS	TT03316.D	1	11/12/06	VS	11/09/06	OP18466	GTT117
OP18466-MSD	TT03317.D	1	11/12/06	VS	11/09/06	OP18466	GTT117
F44814-2	TT03312.D	1	11/12/06	VS	11/09/06	OP18466	GTT117

The QC reported here applies to the following samples: **Method:** SW846 8081A

F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

CAS No.	Compound	F44814-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		20.1	14.5	72	20.2	15.8	78	9	57-142/23
319-84-6	alpha-BHC	ND		20.1	16.1	80	20.2	16.6	82	3	53-147/24
319-85-7	beta-BHC	ND		20.1	16.8	84	20.2	17.1	85	2	58-152/18
319-86-8	delta-BHC	ND		20.1	12.3	61	20.2	12.7	63	3	37-148/23
58-89-9	gamma-BHC (Lindane)	ND		20.1	16.6	83	20.2	17.5	87	5	59-146/21
5103-71-9	alpha-Chlordane	ND		20.1	16.6	83	20.2	16.8	83	1	59-147/21
5103-74-2	gamma-Chlordane	ND		20.1	17.3	86	20.2	17.6	87	2	55-152/20
60-57-1	Dieldrin	ND		20.1	17.1	85	20.2	17.2	85	1	59-142/20
72-54-8	4,4'-DDD	ND		20.1	17.3	86	20.2	17.5	87	1	56-167/25
72-55-9	4,4'-DDE	ND		20.1	17.8	89	20.2	17.8	88	0	58-158/21
50-29-3	4,4'-DDT	ND		20.1	19.0	95	20.2	18.4	91	3	60-157/25
72-20-8	Endrin	ND		20.1	18.1	90	20.2	18.4	91	2	59-153/21
1031-07-8	Endosulfan sulfate	ND		20.1	16.0	80	20.2	16.6	82	4	52-151/24
7421-93-4	Endrin aldehyde	ND		20.1	14.5	72	20.2	14.7	73	1	5-106/50
53494-70-5	Endrin ketone	ND		20.1	16.5	82	20.2	16.8	83	2	44-163/22
959-98-8	Endosulfan-I	ND		20.1	15.8	79	20.2	16.6	82	5	57-145/20
33213-65-9	Endosulfan-II	ND		20.1	16.5	82	20.2	17.2	85	4	52-146/22
76-44-8	Heptachlor	ND		20.1	16.9	84	20.2	17.4	86	3	61-145/24
1024-57-3	Heptachlor epoxide	ND		20.1	16.6	83	20.2	16.6	82	0	58-147/20
72-43-5	Methoxychlor	ND		20.1	16.7	83	20.2	17.4	86	4	58-154/25

CAS No.	Surrogate Recoveries	MS	MSD	F44814-2	Limits
877-09-8	Tetrachloro-m-xylene	80%	83%	91%	60-142%
2051-24-3	Decachlorobiphenyl	82%	83%	90%	61-153%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F44808
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10605 Methods: SW846 7471A
Matrix Type: SOLID Units: mg/kg

Prep Date: 10/31/06

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.083	.0067	.0067	0.0028	<0.083

Associated samples MP10605: F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44808
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10605 | Methods: SW846 7471A
Matrix Type: SOLID | Units: mg/kg

Prep Date: 10/31/06 | 10/31/06

Metal	F44776-34 Original	DUP	RPD	QC Limits	F44776-34 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.050	0.047	6.2	0-20	0.050	0.32	0.28	95.2	80-120

Associated samples MP10605: F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F44808
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10605
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 10/31/06

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	80-120

Associated samples MP10605: F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F44808
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10630
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/03/06

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	1.8	2.2		
Antimony	5.9	.33	.52		
Arsenic	0.78	.27	.38	-0.094	<0.78
Barium	20	.039	.078	0.024	<20
Beryllium	0.49	.039	.039		
Cadmium	0.39	.02	.02	0.0059	<0.39
Calcium	490	4.1	5.6		
Chromium	0.98	.059	.088	0.014	<0.98
Cobalt	4.9	.059	.059		
Copper	2.5	.088	.088		
Iron	9.8	1.2	1.2		
Lead	9.8	.17	.2	0.098	<9.8
Magnesium	490	.42	.73		
Manganese	1.5	.059	.059		
Molybdenum	4.9	.13	.13		
Nickel	3.9	.078	.098		
Potassium	980	.98	9.8		
Selenium	9.8	.2	.2	0.30	<9.8
Silver	0.98	.088	.088	0.048	<0.98
Sodium	980	49	81		
Thallium	2.0	.23	.23		
Tin	4.9	.3	.3		
Vanadium	4.9	.059	.059		
Zinc	2.0	.13	.13		

Associated samples MP10630: F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44808
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10630
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:			11/03/06					11/03/06	
Metal	F44808-1 Original	DUP	RPD	QC Limits	F44808-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	2.4	2.7	11.8	0-20	2.4	226	230	97.0	80-120
Barium	59.9	61.7	3.0	0-20	59.9	283	230	96.8	80-120
Beryllium	anr								
Cadmium	0.031	0.029	6.7	0-20	0.031	5.4	5.8	93.2	80-120
Calcium									
Chromium	5.5	5.5	0.0	0-20	5.5	27.5	23	95.5	80-120
Cobalt									
Copper	anr								
Iron									
Lead	2.8	2.9	3.5	0-20	2.8	56.8	57.6	93.7	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium	0.0	0.0	NC	0-20	0.0	206	230	89.4	80-120
Silver	0.0	0.0	NC	0-20	0.0	5.8	5.8	100.7	80-120
Sodium									
Thallium	anr								
Tin									
Vanadium									
Zinc	anr								

Associated samples MP10630: F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44808
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10630
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/03/06

Metal	F44808-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	2.4	225	230	96.6	0.4	20
Barium	59.9	287	230	98.6	1.4	20
Beryllium	anr					
Cadmium	0.031	5.5	5.8	94.9	1.8	20
Calcium						
Chromium	5.5	27.8	23	96.8	1.1	20
Cobalt						
Copper	anr					
Iron						
Lead	2.8	57.6	57.6	95.1	1.4	20
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Potassium						
Selenium	0.0	206	230	89.4	0.0	20
Silver	0.0	5.9	5.8	102.4	1.7	20
Sodium						
Thallium	anr					
Tin						
Vanadium						
Zinc	anr					

Associated samples MP10630: F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F44808
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10630
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/03/06

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	196	200	98.0	80-120
Barium	206	200	103.0	80-120
Beryllium	anr			
Cadmium	5.1	5	102.0	80-120
Calcium				
Chromium	21.3	20	106.5	80-120
Cobalt				
Copper	anr			
Iron				
Lead	50.5	50	101.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	182	200	91.0	80-120
Silver	5.0	5	100.0	80-120
Sodium				
Thallium	anr			
Tin				
Vanadium				
Zinc	anr			

Associated samples MP10630: F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F44808
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10630
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/03/06

Metal	F44808-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	20.8	36.9	77.8 (a)	0-10
Barium	510	516	1.3	0-10
Beryllium	anr			
Cadmium	0.260	0.00	100.0(a)	0-10
Calcium				
Chromium	46.7	49.9	6.9	0-10
Cobalt				
Copper	anr			
Iron				
Lead	24.0	25.4	6.0	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Thallium	anr			
Tin				
Vanadium				
Zinc	anr			

Associated samples MP10630: F44808-1, F44808-2, F44808-3, F44808-4, F44808-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Southeast ACCUTEST LABORATORIES

11/10/14

Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

PROJECT #9050361.01.04

Accutest Job Number: F45254

Sampling Date: 11/13/06

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **81**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Jean Dent-Smith 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 (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Accutest LabLink@155481 15:38 10-Nov-2014

Sample Summary

Bhate Environmental Associates, Inc.

Job No: F45254

HOLMN
Project No: PROJECT #9050361.01.04

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F45254-1	11/13/06	11:40	TL	11/15/06	AQ	Ground Water	SD-08-MW08-01
F45254-2	11/13/06	09:40	TL	11/15/06	AQ	Ground Water	SD-08-MW08-05
F45254-3	11/13/06	09:40	TL	11/15/06	AQ	Trip Blank Water	TRIP BLANK
F45254-4	11/13/06	11:00	TL	11/15/06	AQ	Ground Water	S10-MW01
F45254-5	11/13/06	11:00	TL	11/15/06	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Bhate Environmental Associates, Inc. **Job No:** F45254

Site: HOLMN **Report Date** 12/7/2006 10:02:30

3 Samples, 2 Trip Blanks were collected on 11/13/2006 and received at Accutest on 11/15/2006 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of F45254. 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:** VJ1086

Sample(s) F45254-1MS, F45254-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for Chlorobenzene, cis-1,3-Dichloropropene, Methylene bromide are outside control limits. Biased high, not affected data integrity - no hits in the samples detected.

Matrix Spike Recovery(s) for 2-Chloroethyl vinyl ether, Acrolein, cis-1,3-Dichloropropene, Methyl ethyl ketone, Methyl methacrylate, Methylene bromide, Naphthalene, Trichloroethylene are outside control limits.

Matrix Spike Duplicate Recovery(s) for 2-Chloroethyl vinyl ether, cis-1,3-Dichloropropene, Methyl ethyl ketone, Trichloroethylene are outside control limits. For method performance in clean matrix refer to Blank Spike.

Matrix: AQ **Batch ID:** VJ1087

Sample(s) F45309-5MS, F45309-5MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

The following samples were run outside of holding time for method SW846 8260B: F45254-1 Sample re-analyzed beyond hold time; reported results are considered minimum values.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP18556

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) F45254-2MS, F45254-2MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2-Chlorophenol, 2-Methylphenol, 3&4-Methylphenol, 4-Chloro-3-methyl phenol, 4-Nitrophenol, Phenol are outside control limits. MS/MSD passed control criteria, SW-846 8000 requirements are met.

Sample(s) F45254-1, F45254-4 have surrogates outside control limits. Probable cause due to matrix interference.

F45254-4: Confirmed ND by re-extraction and reanalysis beyond holdtime.

F45254-2: Confirmed by re-extraction and reanalysis beyond holdtime.

F45254-1: Confirmed ND by re-extraction and reanalysis beyond holdtime.

Matrix: AQ **Batch ID:** OP18655

The following samples were extracted outside of holding time for method SW846 8270C: F45254-1, F45254-2, F45254-4

Sample(s) F45254-1, F45254-4 have surrogates outside control limits. Probable cause due to matrix interference.

F45254-1: Confirmation run.

F45254-2: Confirmation run.

F45254-4: Confirmation run.

Extractables by GC By Method SW846 8081A

Matrix: AQ **Batch ID:** OP18576

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) F45339-1MS, F45339-1MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for 4,4'-DDE, 4,4'-DDT, Methoxychlor are outside control limits. Probable cause due to matrix interference. See Blank Spike.

RPD(s) for MSD for Endrin aldehyde are outside control limits for sample OP18576-MSD. Probable cause due to sample homogeneity.

Metals By Method EPA 200.7

Matrix: AQ **Batch ID:** MP10712

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) F45254-1DUP, F45254-1MS, F45254-1SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic, Barium are outside control limits for sample MP10712-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

F45254-4 for Selenium: Elevated reporting limit(s) due to matrix interference.

F45254-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

F45254-2 for Selenium: Elevated reporting limit(s) due to matrix interference.

Metals By Method EPA 245.1

Matrix: AQ **Batch ID:** MP10717

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) F45254-1MS, F45254-1DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Mercury are outside control limits for sample MP10717-D1. RPD acceptable due to low duplicate and sample concentrations.

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: December 07, 2006

Svetlana Izosimova, QAO (signature on file)

Summary of Hits

Job Number: F45254
Account: Bhate Environmental Associates, Inc.
Project: HOLMN
Collected: 11/13/06

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F45254-1	**SD-08-MW08-01**					
Benzene		0.57 J	1.0	0.50	ug/l	SW846 8260B
tert-Butylbenzene		0.57 J	1.0	0.50	ug/l	SW846 8260B
1,2-Dichloroethane		141 E	1.0	0.50	ug/l	SW846 8260B
1,2-Dichloropropane		10.3	1.0	0.50	ug/l	SW846 8260B
o-Dichlorobenzene		0.52 J	1.0	0.50	ug/l	SW846 8260B
1,1,2-Trichloroethane		3.9	1.0	0.50	ug/l	SW846 8260B
Arsenic		23.4	10	2.8	ug/l	EPA 200.7
Barium		15.8 J	200	0.40	ug/l	EPA 200.7
Mercury		0.21 J	1.0	0.10	ug/l	EPA 245.1
F45254-2	**SD-08-MW08-05**					
Methyl ethyl ketone		2.8 J	5.0	2.5	ug/l	SW846 8260B
bis(2-Ethylhexyl)phthalate [a]		3.6 J	5.0	2.5	ug/l	SW846 8270C
Arsenic		4.5 J	10	2.8	ug/l	EPA 200.7
Barium		48.3 J	200	0.40	ug/l	EPA 200.7
Lead		2.9 J	5.0	1.7	ug/l	EPA 200.7
Mercury		0.15 J	1.0	0.10	ug/l	EPA 245.1
F45254-3	**TRIP BLANK**					
No hits reported in this sample.						
F45254-4	**S10-MW01**					
Acetone		9.5 J	25	5.0	ug/l	SW846 8260B
1,2-Dichloroethane		3.0	1.0	0.50	ug/l	SW846 8260B
Arsenic		7.6 J	10	2.8	ug/l	EPA 200.7
Barium		20.8 J	200	0.40	ug/l	EPA 200.7
Cadmium		1.6 J	5.0	0.30	ug/l	EPA 200.7
Chromium		3.8 J	10	0.60	ug/l	EPA 200.7
Mercury		0.22 J	1.0	0.10	ug/l	EPA 245.1
F45254-5	**TRIP BLANK**					
Acetone		40.1	25	5.0	ug/l	SW846 8260B
Methylene chloride		3.2 J	5.0	1.0	ug/l	SW846 8260B

(a) Confirmed by re-extraction and reanalysis beyond holdtime.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD-08-MW08-01		
Lab Sample ID:	F45254-1	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J026371.D	1	11/27/06	AB	n/a	n/a	VJ1086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	0.57	1.0	0.50	ug/l	J
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	0.57	1.0	0.50	ug/l	J
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	141	1.0	0.50	ug/l	E
78-87-5	1,2-Dichloropropane	10.3	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-MW08-01		
Lab Sample ID:	F45254-1	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	0.52	1.0	0.50	ug/l	J
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	3.9	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-MW08-01		
Lab Sample ID:	F45254-1	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		86-115%
17060-07-0	1,2-Dichloroethane-D4	105%		73-126%
2037-26-5	Toluene-D8	89%		86-112%
460-00-4	4-Bromofluorobenzene	96%		83-119%

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Report of Analysis

Client Sample ID:	SD-08-MW08-01		
Lab Sample ID:	F45254-1	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R05982.D	1	11/22/06	ME	11/17/06	OP18556	SR281
Run #2 [b]	L035022.D	1	11/30/06	NJ	11/28/06	OP18655	SL1795

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2	1020 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	9.9	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	9.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.9	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	9.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	9.9	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.99	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.99	ug/l	
120-12-7	Anthracene	ND	5.0	0.99	ug/l	
92-87-5	Benzidine	ND	25	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.99	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.99	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.99	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.99	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.99	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.99	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.99	ug/l	
106-47-8	4-Chloroaniline	ND	9.9	4.0	ug/l	
218-01-9	Chrysene	ND	5.0	0.99	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.99	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-MW08-01		
Lab Sample ID:	F45254-1	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.99	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.99	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.99	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.99	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.99	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.9	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.99	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.99	ug/l	
86-73-7	Fluorene	ND	5.0	0.99	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.99	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	0.99	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.99	ug/l	
88-74-4	2-Nitroaniline	ND	9.9	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	9.9	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	9.9	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.99	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.99	ug/l	
129-00-0	Pyrene	ND	5.0	0.99	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.99	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%	25%	19-90%
4165-62-2	Phenol-d5	13%	18%	10-68%
118-79-6	2,4,6-Tribromophenol	59%	76%	36-137%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-MW08-01		
Lab Sample ID:	F45254-1	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	47%	62%	49-119%
321-60-8	2-Fluorobiphenyl	47%	63%	45-118%
1718-51-0	Terphenyl-d14	34%	56%	46-135%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.
(b) Confirmation run.

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:	SD-08-MW08-01		
Lab Sample ID:	F45254-1	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT03826.D	1	12/01/06	VS	11/20/06	OP18576	GTT134
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.048	0.019	ug/l	
319-84-6	alpha-BHC	ND	0.048	0.014	ug/l	
319-85-7	beta-BHC	ND	0.048	0.019	ug/l	
319-86-8	delta-BHC	ND	0.048	0.019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.048	0.014	ug/l	
5103-71-9	alpha-Chlordane	ND	0.048	0.014	ug/l	
5103-74-2	gamma-Chlordane	ND	0.048	0.014	ug/l	
60-57-1	Dieldrin	ND	0.048	0.014	ug/l	
72-54-8	4,4'-DDD	ND	0.096	0.019	ug/l	
72-55-9	4,4'-DDE	ND	0.096	0.019	ug/l	
50-29-3	4,4'-DDT	ND	0.096	0.019	ug/l	
72-20-8	Endrin	ND	0.096	0.038	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.096	0.019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.096	0.038	ug/l	
53494-70-5	Endrin ketone	ND	0.096	0.019	ug/l	
959-98-8	Endosulfan-I	ND	0.048	0.014	ug/l	
33213-65-9	Endosulfan-II	ND	0.096	0.019	ug/l	
76-44-8	Heptachlor	ND	0.048	0.019	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.048	0.014	ug/l	
72-43-5	Methoxychlor	ND	0.096	0.038	ug/l	
8001-35-2	Toxaphene	ND	2.4	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		60-138%
2051-24-3	Decachlorobiphenyl	77%		31-148%

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-MW08-01		
Lab Sample ID:	F45254-1	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
		Percent Solids:	n/a
Project:	HOLMN		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	23.4	10	2.8	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Barium	15.8 J	200	0.40	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Cadmium	0.30 U	5.0	0.30	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Chromium	0.60 U	10	0.60	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Lead	1.7 U	5.0	1.7	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Mercury	0.21 J	1.0	0.10	ug/l	1	11/17/06	11/17/06	MS	EPA 245.1 [2]	EPA 245.1 [4]
Selenium [a]	56 U	100	56	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Silver	0.90 U	10	0.90	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]

(1) Instrument QC Batch: MA5351
(2) Instrument QC Batch: MA5357
(3) Prep QC Batch: MP10712
(4) Prep QC Batch: MP10717

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SD-08-MW08-05		
Lab Sample ID:	F45254-2	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J026374.D	1	11/27/06	AB	n/a	n/a	VJ1086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-MW08-05		
Lab Sample ID:	F45254-2	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.8	5.0	2.5	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-MW08-05		
Lab Sample ID:	F45254-2	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		86-115%
17060-07-0	1,2-Dichloroethane-D4	105%		73-126%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	97%		83-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-MW08-05		
Lab Sample ID:	F45254-2	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R05971.D	1	11/22/06	ME	11/17/06	OP18556	SR280
Run #2 [b]	L035023.D	1	11/30/06	NJ	11/28/06	OP18655	SL1795

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	9.9	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	9.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.9	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	9.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	9.9	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.99	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.99	ug/l	
120-12-7	Anthracene	ND	5.0	0.99	ug/l	
92-87-5	Benzidine	ND	25	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.99	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.99	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.99	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.99	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.99	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.99	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.99	ug/l	
106-47-8	4-Chloroaniline	ND	9.9	4.0	ug/l	
218-01-9	Chrysene	ND	5.0	0.99	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.99	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-MW08-05		
Lab Sample ID:	F45254-2	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.99	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.99	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.99	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.99	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.99	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.9	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.99	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	3.6	5.0	2.5	ug/l	J
206-44-0	Fluoranthene	ND	5.0	0.99	ug/l	
86-73-7	Fluorene	ND	5.0	0.99	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.99	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	0.99	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.99	ug/l	
88-74-4	2-Nitroaniline	ND	9.9	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	9.9	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	9.9	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.99	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.99	ug/l	
129-00-0	Pyrene	ND	5.0	0.99	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.99	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	21%	27%	19-90%
4165-62-2	Phenol-d5	14%	17%	10-68%
118-79-6	2,4,6-Tribromophenol	86%	76%	36-137%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-08-MW08-05		
Lab Sample ID:	F45254-2	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%	68%	49-119%
321-60-8	2-Fluorobiphenyl	70%	66%	45-118%
1718-51-0	Terphenyl-d14	65%	62%	46-135%

(a) Confirmed by re-extraction and reanalysis beyond holdtime.
(b) Confirmation run.

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:	SD-08-MW08-05		
Lab Sample ID:	F45254-2	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT03835.D	1	12/01/06	VS	11/20/06	OP18576	GTT134
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.049	0.020	ug/l	
319-84-6	alpha-BHC	ND	0.049	0.015	ug/l	
319-85-7	beta-BHC	ND	0.049	0.020	ug/l	
319-86-8	delta-BHC	ND	0.049	0.020	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.049	0.015	ug/l	
5103-71-9	alpha-Chlordane	ND	0.049	0.015	ug/l	
5103-74-2	gamma-Chlordane	ND	0.049	0.015	ug/l	
60-57-1	Dieldrin	ND	0.049	0.015	ug/l	
72-54-8	4,4'-DDD	ND	0.098	0.020	ug/l	
72-55-9	4,4'-DDE	ND	0.098	0.020	ug/l	
50-29-3	4,4'-DDT	ND	0.098	0.020	ug/l	
72-20-8	Endrin	ND	0.098	0.039	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.098	0.020	ug/l	
7421-93-4	Endrin aldehyde	ND	0.098	0.039	ug/l	
53494-70-5	Endrin ketone	ND	0.098	0.020	ug/l	
959-98-8	Endosulfan-I	ND	0.049	0.015	ug/l	
33213-65-9	Endosulfan-II	ND	0.098	0.020	ug/l	
76-44-8	Heptachlor	ND	0.049	0.020	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.049	0.015	ug/l	
72-43-5	Methoxychlor	ND	0.098	0.039	ug/l	
8001-35-2	Toxaphene	ND	2.5	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		60-138%
2051-24-3	Decachlorobiphenyl	57%		31-148%

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Report of Analysis

Client Sample ID:	SD-08-MW08-05		
Lab Sample ID:	F45254-2	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
		Percent Solids:	n/a
Project:	HOLMN		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.5 J	10	2.8	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Barium	48.3 J	200	0.40	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Cadmium	0.30 U	5.0	0.30	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Chromium	0.60 U	10	0.60	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Lead	2.9 J	5.0	1.7	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Mercury	0.15 J	1.0	0.10	ug/l	1	11/17/06	11/17/06	MS	EPA 245.1 [2]	EPA 245.1 [4]
Selenium [a]	110 U	200	110	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Silver	0.90 U	10	0.90	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]

(1) Instrument QC Batch: MA5351
(2) Instrument QC Batch: MA5357
(3) Prep QC Batch: MP10712
(4) Prep QC Batch: MP10717

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45254-3	**Date Sampled:**	11/13/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J026375.D	1	11/27/06	AB	n/a	n/a	VJ1086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45254-3	**Date Sampled:**	11/13/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45254-3	**Date Sampled:**	11/13/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		86-115%
17060-07-0	1,2-Dichloroethane-D4	106%		73-126%
2037-26-5	Toluene-D8	90%		86-112%
460-00-4	4-Bromofluorobenzene	100%		83-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S10-MW01		
Lab Sample ID:	F45254-4	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J026376.D	1	11/27/06	AB	n/a	n/a	VJ1086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	9.5	25	5.0	ug/l	J
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	3.0	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S10-MW01		
Lab Sample ID:	F45254-4	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S10-MW01		
Lab Sample ID:	F45254-4	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		86-115%
17060-07-0	1,2-Dichloroethane-D4	110%		73-126%
2037-26-5	Toluene-D8	90%		86-112%
460-00-4	4-Bromofluorobenzene	102%		83-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S10-MW01		
Lab Sample ID:	F45254-4	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R05974.D	1	11/22/06	ME	11/17/06	OP18556	SR280
Run #2 [b]	L035024.D	1	11/30/06	NJ	11/28/06	OP18655	SL1795

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2	1020 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	9.9	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	9.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.9	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	9.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	9.9	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.99	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.99	ug/l	
120-12-7	Anthracene	ND	5.0	0.99	ug/l	
92-87-5	Benzidine	ND	25	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.99	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.99	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.99	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.99	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.99	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.99	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.99	ug/l	
106-47-8	4-Chloroaniline	ND	9.9	4.0	ug/l	
218-01-9	Chrysene	ND	5.0	0.99	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.99	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S10-MW01		
Lab Sample ID:	F45254-4	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.99	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.99	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.99	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.99	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.99	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.9	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.99	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.99	ug/l	
86-73-7	Fluorene	ND	5.0	0.99	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.99	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	0.99	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.99	ug/l	
88-74-4	2-Nitroaniline	ND	9.9	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	9.9	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	9.9	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.99	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.99	ug/l	
129-00-0	Pyrene	ND	5.0	0.99	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.99	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	13%	24%	19-90%
4165-62-2	Phenol-d5	13%	16%	10-68%
118-79-6	2,4,6-Tribromophenol	45%	62%	36-137%

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:	S10-MW01		
Lab Sample ID:	F45254-4	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	46%	57%	49-119%
321-60-8	2-Fluorobiphenyl	44%	56%	45-118%
1718-51-0	Terphenyl-d14	35%	49%	46-135%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.
(b) Confirmation run.

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:	S10-MW01		
Lab Sample ID:	F45254-4	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT03828.D	1	12/01/06	VS	11/20/06	OP18576	GTT134
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.049	0.020	ug/l	
319-84-6	alpha-BHC	ND	0.049	0.015	ug/l	
319-85-7	beta-BHC	ND	0.049	0.020	ug/l	
319-86-8	delta-BHC	ND	0.049	0.020	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.049	0.015	ug/l	
5103-71-9	alpha-Chlordane	ND	0.049	0.015	ug/l	
5103-74-2	gamma-Chlordane	ND	0.049	0.015	ug/l	
60-57-1	Dieldrin	ND	0.049	0.015	ug/l	
72-54-8	4,4'-DDD	ND	0.098	0.020	ug/l	
72-55-9	4,4'-DDE	ND	0.098	0.020	ug/l	
50-29-3	4,4'-DDT	ND	0.098	0.020	ug/l	
72-20-8	Endrin	ND	0.098	0.039	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.098	0.020	ug/l	
7421-93-4	Endrin aldehyde	ND	0.098	0.039	ug/l	
53494-70-5	Endrin ketone	ND	0.098	0.020	ug/l	
959-98-8	Endosulfan-I	ND	0.049	0.015	ug/l	
33213-65-9	Endosulfan-II	ND	0.098	0.020	ug/l	
76-44-8	Heptachlor	ND	0.049	0.020	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.049	0.015	ug/l	
72-43-5	Methoxychlor	ND	0.098	0.039	ug/l	
8001-35-2	Toxaphene	ND	2.5	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		60-138%
2051-24-3	Decachlorobiphenyl	58%		31-148%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S10-MW01		
Lab Sample ID:	F45254-4	**Date Sampled:**	11/13/06
Matrix:	AQ - Ground Water	**Date Received:**	11/15/06
		Percent Solids:	n/a
Project:	HOLMN		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	7.6 J	10	2.8	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Barium	20.8 J	200	0.40	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Cadmium	1.6 J	5.0	0.30	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Chromium	3.8 J	10	0.60	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Lead	1.7 U	5.0	1.7	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Mercury	0.22 J	1.0	0.10	ug/l	1	11/17/06	11/17/06	MS	EPA 245.1 [2]	EPA 245.1 [4]
Selenium [a]	56 U	100	56	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]
Silver	0.90 U	10	0.90	ug/l	1	11/16/06	11/16/06	RS	EPA 200.7 [1]	EPA 200.7 [3]

(1) Instrument QC Batch: MA5351
(2) Instrument QC Batch: MA5357
(3) Prep QC Batch: MP10712
(4) Prep QC Batch: MP10717

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45254-5	**Date Sampled:**	11/13/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J026377.D	1	11/27/06	AB	n/a	n/a	VJ1086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	40.1	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45254-5	**Date Sampled:**	11/13/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	3.2	5.0	1.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45254-5	**Date Sampled:**	11/13/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/15/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		86-115%
17060-07-0	1,2-Dichloroethane-D4	108%		73-126%
2037-26-5	Toluene-D8	90%		86-112%
460-00-4	4-Bromofluorobenzene	103%		83-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range 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

F45254

BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

Page 1 of 1

Project Number: 50361.01.04

P.O. NA

Chain of Custody Number [1]: 111420062

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: T Lucero

Field Sample ID (30 Character Max)	ERPIMS LOCID (15 Character Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)		QA Code [2]	Sample Number [3]	Sample Matrix [4]	Number of Containers	VOC 8260	SVOC 8270	Pest 8081	RCRA Metals 6010/7470					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested [5]									Quality Assurance Samples [6]			
4) S10-MW01	S10-MW01	13/11/2006	1100	0'	0'	N	1	AQ	8	1	1	1	1								2
5) Trip Blank	Field QC	13/11/2006	1100			TB		AQ	1	1											2

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 Email Results to rrenvironmental@zianet.com;kevin@zianet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.		11-14-2006	1600	1.		
2.				2.		
3.				3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FEDEX Airbill Number:

Analytical Lab: Accutest Lab Delivery Location: Orlando FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-a) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, If sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WQ = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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5.1

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F45254: Chain of Custody

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Environmental Engineers and Scientists

Chain of Custody and Analytical Request

Page 1 of 1

Project Number 9050361.01.04

P.O. NA

Chain of Custody Number [1]:111420061

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: T Lucero

Sample Analysis Requested [5]

Quality Assurance Samples [6]

Field Sample ID (30 Characters Max)	BRFIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Number of Containers	VOC 8260	SVOC 8270	Pest 8081	RCRA Metals 6010/7470					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Code: ID
1 SD-08-MW08-01	SD-08-MW08-01	13/11/2006	1140	0' 0'	N	1	AQ	8	[1]	[1]	[1]	[1]								1
2 SD-08-MW08-05	SD-08-MW08-05	13/11/2006	0940	0' 0'	N	1	AQ	8	[1]	[1]	[1]	[1]								1
3 Trip Blank	Field QC	13/11/2006	0940		TB		AQ	1	[1]											1

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 Email Results to rrenvironmental@zianet.com;keving@zianet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.		11-14-2006	1600			
2.						
3.					11/15/06	0945

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FEDEX

Analytical Lab: Accutest Lab

Lab Recipient:

Shipped No.:

Airbill Number:

Delivery Location: Orlando FL

Delivery Date/Time:

2.0°

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-a) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WQ = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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F45254: Chain of Custody

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F45254 CLIENT: BHATE PROJECT: SD 08

DATE/TIME RECEIVED: 11/15/06 - 0945 # OF COOLERS RECEIVED: 2 COOLER TEMPS: 2.0, 1.8,

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 858101025857

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

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

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ?

NUMBER OF 5035 FIELD KITS ?

NUMBER OR LAB FILTERED METALS ?

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE TECHNICIAN SIGNATURE/DATE ASBD 10/03/06

5.1

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F45254: Chain of Custody

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BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

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Project Number 9[illegible]50361.01.04

P.O. NA

Chain of Custody Number [1]: 111420062

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: T Lucero

Field Sample ID (30 Characters Max)	BRPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Number of Containers	VOC 8260	SVOC 8270	Pest 8081	RCRA Metals 6010/7470					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested [5]									Quality Assurance Samples [6]			
4) S10-MW01	S10-MW01	13/11/2006	1100	0' 0'	N	1	AQ	8	[1]	[1]	[1]	[1]								2
5) Trip Blank	Field QC	13/11/2006	1100		TB		AQ	1	[1]											2

COMMENTS: **ATTN: Sample Receiving**
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 **Email Results to rrenvironmental@zianet.com;keving@zianet.com;mdauben@bhate.com**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	11-14-2006	1600	1. [signature]		
2.				2.		
3.	[signature]			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.: _____

Method of Shipment: FEDEX Airbill Number: _____

Analytical Lab: Accutest Lab Delivery Location: Orlando FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SB = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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ACCUTEST LABORATORIES

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BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

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Project Number 9050361.01.04

P.O. NA

Chain of Custody Number [1]: 111420061

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: T Lucero

Field Sample ID (30 Characters Max)	BRPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Sample Analysis Requested [5]: number of containers	VOC 8260	SVOC 8270	Pest 8081	RCRA Metals 6010/7470					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
1) SD-08-MW08-01	SD-08-MW08-01	13/11/2006	1140	0' 0'	N	1	AQ	8	[1]	[1]	[1]	[1]								1
2) SD-08-MW08-05	SD-08-MW08-05	13/11/2006	0940	0' 0'	N	1	AQ	8	[1]	[1]	[1]	[1]								1
3) Trip Blank	Field QC	13/11/2006	0940		TB		AQ	1	[1]											1

Quality Assurance Samples [6]

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 Email Results to rrenvironmental@zianet.com;kevjng@zianet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	11-14-2006	1600	1.		
2.			2.		
3.			3.	11/15/06	0945

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FEDEX Airbill Number:

Analytical Lab: Accutest Lab Delivery Location: Orlando FL

Lab Recipient: Delivery Date/Time:

2.0°

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-s) Samples, FR = Field Replicate (-h) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-a)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: OS = Soil Gas, WQ = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 101099-01 in the Equipment Blank Lot Control

5.1 5

F45254: Chain of Custody

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F45254 CLIENT: BHATE PROJECT: SD 08

DATE/TIME RECEIVED: 11/15/06 - 0945 # OF COOLERS RECEIVED: 2 COOLER TEMPS: 2.0, 1.8

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 858101025857

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

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

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ?

NUMBER OF 5035 FIELD KITS ?

NUMBER OR LAB FILTERED METALS ?

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE TECHNICIAN SIGNATURE/DATE ASBD 10/03/06

5.1

5

F45254: Chain of Custody

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Job Change Order: F45254_12/15/2006

Requested Date:	12/15/2006	**Received Date:**	11/15/2006
Account Name:	Bhate Environmental Associates,	**Due Date:**	11/29/2006
Project Description:	HOLMN	**Deliverable:**	COMMBN
CSR:	HW	**TAT (Days):**	14

Sample #:
F45254--1, -4

Change: Please run samples for TDS per Jim of BHATE

Above Changes Per: Jim Moore- BHATE **Date:** 12/15/2006

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

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Job Change Order: F45254_2/15/2007

Requested Date:	2/15/2007	**Received Date:**	11/15/2006
Account Name:	Bhate Environmental Associates,	**Due Date:**	11/29/2006
Project Description:	HOLMN	**Deliverable:**	COMMBN
CSR:	JDS	**TAT (Days):**	14

Sample #:
F45254-1

Change: Client has requested original results to be reported for SW846 8260B, prior to dilution. Please regenerate report.

SD-08-MW08-01

Above Changes Client, Marsha **Date:** 2/15/2007

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

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Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1086-MB	J026367.D	1	11/27/06	AB	n/a	n/a	VJ1086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45254-1, F45254-2, F45254-3, F45254-4, F45254-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1086-MB	J026367.D	1	11/27/06	AB	n/a	n/a	VJ1086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45254-1, F45254-2, F45254-3, F45254-4, F45254-5

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

Method Blank Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1086-MB	J026367.D	1	11/27/06	AB	n/a	n/a	VJ1086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45254-1, F45254-2, F45254-3, F45254-4, F45254-5

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	110%	86-115%
17060-07-0	1,2-Dichloroethane-D4	106%	73-126%
2037-26-5	Toluene-D8	92%	86-112%
460-00-4	4-Bromofluorobenzene	102%	83-119%

Blank Spike Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1086-BS	J026364.D	1	11/27/06	AB	n/a	n/a	VJ1086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45254-1, F45254-2, F45254-3, F45254-4, F45254-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	116	93	44-142
75-05-8	Acetonitrile	250	233	93	50-150 [a]
107-02-8	Acrolein	125	83.0	66	32-168
107-13-1	Acrylonitrile	125	120	96	35-130
107-05-1	Allyl chloride	25	25.2	101	50-150 [a]
71-43-2	Benzene	25	29.0	116	80-120
100-44-7	Benzyl Chloride	25	24.6	98	50-150 [a]
108-86-1	Bromobenzene	25	27.3	109	76-114
74-97-5	Bromochloromethane	25	27.9	112	75-121
75-27-4	Bromodichloromethane	25	28.3	113	75-120
75-25-2	Bromoform	25	29.5	118	60-129
104-51-8	n-Butylbenzene	25	26.8	107	76-122
135-98-8	sec-Butylbenzene	25	29.2	117	84-122
98-06-6	tert-Butylbenzene	25	28.3	113	77-124
108-90-7	Chlorobenzene	25	28.5	114*	82-112
75-00-3	Chloroethane	25	29.2	117	67-148
67-66-3	Chloroform	25	29.0	116	78-118
544-10-5	1-Chlorohexane	25	28.5	114	82-130
95-49-8	o-Chlorotoluene	25	26.9	108	80-121
106-43-4	p-Chlorotoluene	25	27.5	110	78-120
110-75-8	2-Chloroethyl vinyl ether	125	140	112	23-132
75-15-0	Carbon disulfide	25	25.9	104	65-147
56-23-5	Carbon tetrachloride	25	31.3	125	69-137
75-34-3	1,1-Dichloroethane	25	28.7	115	75-117
75-35-4	1,1-Dichloroethylene	25	26.7	107	67-134
563-58-6	1,1-Dichloropropene	25	29.9	120	84-127
96-12-8	1,2-Dibromo-3-chloropropane	25	23.4	94	54-125
106-93-4	1,2-Dibromoethane	25	26.4	106	68-116
107-06-2	1,2-Dichloroethane	25	28.6	114	68-121
78-87-5	1,2-Dichloropropane	25	28.6	114	78-122
142-28-9	1,3-Dichloropropane	25	27.0	108	72-116
594-20-7	2,2-Dichloropropane	25	29.4	118	68-134
124-48-1	Dibromochloromethane	25	26.2	105	68-118
75-71-8	Dichlorodifluoromethane	25	21.9	88	43-173
156-59-2	cis-1,2-Dichloroethylene	25	27.9	112	81-120
10061-01-5	cis-1,3-Dichloropropene	25	29.8	119*	73-115

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1086-BS	J026364.D	1	11/27/06	AB	n/a	n/a	VJ1086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45254-1, F45254-2, F45254-3, F45254-4, F45254-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	25	27.0	108	50-150 [a]
541-73-1	m-Dichlorobenzene	25	28.4	114	78-116
95-50-1	o-Dichlorobenzene	25	28.6	114	77-115
106-46-7	p-Dichlorobenzene	25	27.2	109	77-113
156-60-5	trans-1,2-Dichloroethylene	25	28.4	114	74-125
10061-02-6	trans-1,3-Dichloropropene	25	28.3	113	69-115
100-41-4	Ethylbenzene	25	27.7	111	82-115
97-63-2	Ethyl methacrylate	25	22.8	91	50-150 [a]
76-13-1	Freon 113	25	28.1	112	72-148
591-78-6	2-Hexanone	125	122	98	60-125
87-68-3	Hexachlorobutadiene	25	31.0	124	62-138
110-54-3	Hexane	25	28.2	113	70-148
98-82-8	Isopropylbenzene	25	29.2	117	83-129
99-87-6	p-Isopropyltoluene	25	29.3	117	85-125
108-10-1	4-Methyl-2-pentanone	125	122	98	61-128
126-98-7	Methacrylonitrile	250	239	96	50-150 [a]
74-83-9	Methyl bromide	25	26.2	105	60-165
74-87-3	Methyl chloride	25	30.2	121	58-152
74-88-4	Methyl iodide	25	26.8	107	61-140
80-62-6	Methyl methacrylate	25	24.0	96	71-128
74-95-3	Methylene bromide	25	28.9	116*	75-114
75-09-2	Methylene chloride	25	25.3	101	66-125
78-93-3	Methyl ethyl ketone	125	128	102	58-127
1634-04-4	Methyl Tert Butyl Ether	25	25.9	104	67-127
91-20-3	Naphthalene	25	24.7	99	62-129
76-01-7	Pentachloroethane	25	25.5	102	50-150 [a]
107-12-0	Propionitrile	250	255	102	50-150 [a]
103-65-1	n-Propylbenzene	25	28.0	112	80-122
100-42-5	Styrene	25	26.0	104	58-125
630-20-6	1,1,1,2-Tetrachloroethane	25	28.2	113	73-118
71-55-6	1,1,1-Trichloroethane	25	30.0	120	78-132
79-34-5	1,1,2,2-Tetrachloroethane	25	24.8	99	67-119
79-00-5	1,1,2-Trichloroethane	25	26.9	108	74-115
87-61-6	1,2,3-Trichlorobenzene	25	26.4	106	65-125
96-18-4	1,2,3-Trichloropropane	25	25.5	102	68-114
120-82-1	1,2,4-Trichlorobenzene	25	26.9	108	66-122

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1086-BS	J026364.D	1	11/27/06	AB	n/a	n/a	VJ1086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45254-1, F45254-2, F45254-3, F45254-4, F45254-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	25	28.5	114	77-119
108-67-8	1,3,5-Trimethylbenzene	25	28.1	112	81-120
127-18-4	Tetrachloroethylene	25	30.3	121	75-126
108-88-3	Toluene	25	28.0	112	81-114
79-01-6	Trichloroethylene	25	28.7	115	80-115
75-69-4	Trichlorofluoromethane	25	25.8	103	65-163
110-57-6	Trans-1,4-Dichloro-2-Butene	25	28.4	114	38-130
75-01-4	Vinyl chloride	25	24.0	96	70-151
108-05-4	Vinyl Acetate	125	130	104	42-146
	m,p-Xylene	50	58.8	118	83-118
95-47-6	o-Xylene	25	27.0	108	77-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	86-115%
17060-07-0	1,2-Dichloroethane-D4	103%	73-126%
2037-26-5	Toluene-D8	97%	86-112%
460-00-4	4-Bromofluorobenzene	95%	83-119%

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F45254-1MS	J026372.D	1	11/27/06	AB	n/a	n/a	VJ1086
F45254-1MSD	J026373.D	1	11/27/06	AB	n/a	n/a	VJ1086
F45254-1	J026371.D	1	11/27/06	AB	n/a	n/a	VJ1086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45254-1, F45254-2, F45254-3, F45254-4, F45254-5

CAS No.	Compound	F45254-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	136	109	125	128	102	6	45-127/15
75-05-8	Acetonitrile	ND		250	224	90	250	212	85	6	50-150/30 [a]
107-02-8	Acrolein	ND		125	503	402*	125	511	409*	2	26-185/18
107-13-1	Acrylonitrile	ND		125	118	94	125	113	90	4	39-140/12
107-05-1	Allyl chloride	ND		25	24.6	98	25	23.2	93	6	50-150/30 [a]
71-43-2	Benzene	0.57	J	25	28.9	113	25	28.4	111	2	72-125/7
100-44-7	Benzyl Chloride	ND		25	26.0	104	25	24.6	98	6	50-150/30 [a]
108-86-1	Bromobenzene	ND		25	26.2	105	25	25.8	103	2	72-113/10
74-97-5	Bromochloromethane	ND		25	26.4	106	25	25.8	103	2	73-121/9
75-27-4	Bromodichloromethane	ND		25	28.6	114	25	28.1	112	2	72-120/8
75-25-2	Bromoform	ND		25	29.1	116	25	29.2	117	0	55-127/11
104-51-8	n-Butylbenzene	ND		25	24.3	97	25	23.2	93	5	69-122/10
135-98-8	sec-Butylbenzene	ND		25	26.7	107	25	26.4	106	1	75-125/9
98-06-6	tert-Butylbenzene	0.57	J	25	27.2	107	25	26.5	104	3	70-125/12
108-90-7	Chlorobenzene	ND		25	27.9	112	25	27.5	110	1	79-113/7
75-00-3	Chloroethane	ND		25	29.9	120	25	29.1	116	3	56-164/14
67-66-3	Chloroform	ND		25	29.1	116	25	28.6	114	2	75-120/8
544-10-5	1-Chlorohexane	ND		25	27.3	109	25	26.4	106	3	77-127/9
95-49-8	o-Chlorotoluene	ND		25	25.6	102	25	25.0	100	2	76-122/9
106-43-4	p-Chlorotoluene	ND		25	26.5	106	25	25.7	103	3	73-120/9
110-75-8	2-Chloroethyl vinyl ether	ND		125	ND	0*	125	ND	0*	nc	8-137/18
75-15-0	Carbon disulfide	ND		25	25.8	103	25	24.4	98	6	60-151/12
56-23-5	Carbon tetrachloride	ND		25	30.8	123	25	31.0	124	1	56-145/12
75-34-3	1,1-Dichloroethane	ND		25	28.4	114	25	27.7	111	2	70-122/10
75-35-4	1,1-Dichloroethylene	ND		25	25.7	103	25	25.1	100	2	61-137/15
563-58-6	1,1-Dichloropropene	ND		25	29.5	118	25	29.1	116	1	80-126/9
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	28.4	114	25	26.1	104	8	49-127/18
106-93-4	1,2-Dibromoethane	ND		25	26.4	106	25	26.1	104	1	67-113/10
107-06-2	1,2-Dichloroethane	141	E	25	168	108	25	164	92	2	64-124/7
78-87-5	1,2-Dichloropropane	10.3		25	38.6	113	25	37.9	110	2	74-123/8
142-28-9	1,3-Dichloropropane	ND		25	26.9	108	25	25.9	104	4	70-116/8
594-20-7	2,2-Dichloropropane	ND		25	28.9	116	25	28.2	113	2	64-133/13
124-48-1	Dibromochloromethane	ND		25	25.7	103	25	25.5	102	1	63-119/9
75-71-8	Dichlorodifluoromethane	ND		25	21.7	87	25	21.2	85	2	35-184/21
156-59-2	cis-1,2-Dichloroethylene	ND		25	27.3	109	25	27.2	109	0	74-125/9
10061-01-5	cis-1,3-Dichloropropene	ND		25	29.1	116*	25	28.4	114*	2	65-112/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F45254-1MS	J026372.D	1	11/27/06	AB	n/a	n/a	VJ1086
F45254-1MSD	J026373.D	1	11/27/06	AB	n/a	n/a	VJ1086
F45254-1	J026371.D	1	11/27/06	AB	n/a	n/a	VJ1086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45254-1, F45254-2, F45254-3, F45254-4, F45254-5

CAS No.	Compound	F45254-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	ND		25	23.9	96	25	20.8	83	14	50-150/30 [a]
541-73-1	m-Dichlorobenzene	ND		25	26.9	108	25	27.0	108	0	74-114/7
95-50-1	o-Dichlorobenzene	0.52	J	25	28.7	113	25	27.9	110	3	73-114/8
106-46-7	p-Dichlorobenzene	ND		25	26.2	105	25	25.7	103	2	74-112/7
156-60-5	trans-1,2-Dichloroethylene	ND		25	28.0	112	25	27.2	109	3	70-127/11
10061-02-6	trans-1,3-Dichloropropene	ND		25	27.6	110	25	26.7	107	3	59-116/11
100-41-4	Ethylbenzene	ND		25	27.3	109	25	26.9	108	1	73-119/8
97-63-2	Ethyl methacrylate	ND		25	24.5	98	25	23.6	94	4	50-150/30 [a]
76-13-1	Freon 113	ND		25	27.0	108	25	26.6	106	1	67-151/14
591-78-6	2-Hexanone	ND		125	146	117	125	140	112	4	54-131/11
87-68-3	Hexachlorobutadiene	ND		25	20.9	84	25	20.6	82	1	52-133/13
110-54-3	Hexane	ND		25	26.4	106	25	24.6	98	7	62-153/12
98-82-8	Isopropylbenzene	ND		25	28.7	115	25	28.4	114	1	79-127/8
99-87-6	p-Isopropyltoluene	ND		25	26.8	107	25	26.4	106	2	77-126/8
108-10-1	4-Methyl-2-pentanone	ND		125	142	114	125	134	107	6	57-136/11
126-98-7	Methacrylonitrile	ND		250	244	98	250	231	92	5	50-150/30 [a]
74-83-9	Methyl bromide	ND		25	26.2	105	25	26.7	107	2	52-172/16
74-87-3	Methyl chloride	ND		25	32.8	131	25	29.1	116	12	53-155/19
74-88-4	Methyl iodide	ND		25	25.9	104	25	25.3	101	2	52-141/12
80-62-6	Methyl methacrylate	ND		25	29.3	117*	25	27.6	110	6	76-115/11
74-95-3	Methylene bromide	ND		25	29.2	117*	25	28.4	114	3	73-115/9
75-09-2	Methylene chloride	ND		25	25.3	101	25	24.1	96	5	61-129/11
78-93-3	Methyl ethyl ketone	ND		125	256	205*	125	242	194*	6	51-128/10
1634-04-4	Methyl Tert Butyl Ether	ND		25	26.5	106	25	26.3	105	1	61-129/9
91-20-3	Naphthalene	ND		25	32.5	130*	25	31.1	124	4	52-127/13
76-01-7	Pentachloroethane	ND		25	24.1	96	25	24.2	97	0	50-150/30 [a]
107-12-0	Propionitrile	ND		250	250	100	250	242	97	3	50-150/30 [a]
103-65-1	n-Propylbenzene	ND		25	26.6	106	25	25.8	103	3	73-123/10
100-42-5	Styrene	ND		25	26.3	105	25	25.9	104	2	64-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	28.1	112	25	27.9	112	1	69-118/8
71-55-6	1,1,1-Trichloroethane	ND		25	30.1	120	25	30.0	120	0	72-133/8
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	25.6	102	25	24.7	99	4	64-120/10
79-00-5	1,1,2-Trichloroethane	3.9		25	30.3	106	25	30.0	104	1	72-116/9
87-61-6	1,2,3-Trichlorobenzene	ND		25	29.8	119	25	29.3	117	2	58-121/12
96-18-4	1,2,3-Trichloropropane	ND		25	27.2	109	25	26.0	104	5	63-116/13
120-82-1	1,2,4-Trichlorobenzene	ND		25	27.3	109	25	26.7	107	2	58-120/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F45254-1MS	J026372.D	1	11/27/06	AB	n/a	n/a	VJ1086
F45254-1MSD	J026373.D	1	11/27/06	AB	n/a	n/a	VJ1086
F45254-1	J026371.D	1	11/27/06	AB	n/a	n/a	VJ1086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45254-1, F45254-2, F45254-3, F45254-4, F45254-5

CAS No.	Compound	F45254-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	ND		25	26.9	108	25	26.8	107	0	68-122/10
108-67-8	1,3,5-Trimethylbenzene	ND		25	26.8	107	25	26.5	106	1	70-125/9
127-18-4	Tetrachloroethylene	ND		25	28.9	116	25	29.0	116	0	70-126/9
108-88-3	Toluene	ND		25	27.5	110	25	27.3	109	1	67-123/8
79-01-6	Trichloroethylene	ND		25	31.8	127*	25	31.0	124*	3	73-117/10
75-69-4	Trichlorofluoromethane	ND		25	26.5	106	25	26.2	105	1	52-164/16
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		25	28.7	115	25	24.6	98	15	27-131/22
75-01-4	Vinyl chloride	ND		25	23.0	92	25	23.7	95	3	63-161/18
108-05-4	Vinyl Acetate	ND		125	136	109	125	131	105	4	37-154/10
	m,p-Xylene	ND		50	57.4	115	50	56.8	114	1	74-123/7
95-47-6	o-Xylene	ND		25	27.1	108	25	26.8	107	1	68-123/7

CAS No.	Surrogate Recoveries	MS	MSD	F45254-1	Limits
1868-53-7	Dibromofluoromethane	103%	103%	104%	86-115%
17060-07-0	1,2-Dichloroethane-D4	103%	101%	105%	73-126%
2037-26-5	Toluene-D8	96%	96%	89%	86-112%
460-00-4	4-Bromofluorobenzene	95%	92%	96%	83-119%

(a) Advisory control limits.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18556-MB	R05968.D	1	11/22/06	ME	11/17/06	OP18556	SR280

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45254-1, F45254-2, F45254-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
92-87-5	Benzidine	ND	25	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	4.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18556-MB	R05968.D	1	11/22/06	ME	11/17/06	OP18556	SR280

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45254-1, F45254-2, F45254-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	10	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	10	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	24%	19-90%
4165-62-2	Phenol-d5	15%	10-68%

Method Blank Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18556-MB	R05968.D	1	11/22/06	ME	11/17/06	OP18556	SR280

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45254-1, F45254-2, F45254-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	79%	36-137%
4165-60-0	Nitrobenzene-d5	75%	49-119%
321-60-8	2-Fluorobiphenyl	72%	45-118%
1718-51-0	Terphenyl-d14	77%	46-135%

Method Blank Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18556-MB	R05980.D	1	11/22/06	ME	11/17/06	OP18556	SR281

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45254-1, F45254-2, F45254-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
92-87-5	Benzidine	ND	25	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	4.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18556-MB	R05980.D	1	11/22/06	ME	11/17/06	OP18556	SR281

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45254-1, F45254-2, F45254-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	10	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	10	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	24%	19-90%
4165-62-2	Phenol-d5	16%	10-68%

Method Blank Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18556-MB	R05980.D	1	11/22/06	ME	11/17/06	OP18556	SR281

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45254-1, F45254-2, F45254-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	76%	36-137%
4165-60-0	Nitrobenzene-d5	71%	49-119%
321-60-8	2-Fluorobiphenyl	71%	45-118%
1718-51-0	Terphenyl-d14	71%	46-135%

Blank Spike Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18556-BS	R05967.D	1	11/22/06	ME	11/17/06	OP18556	SR280

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45254-1, F45254-2, F45254-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	24.3	49*	57-100
59-50-7	4-Chloro-3-methyl phenol	50	29.0	58*	63-105
120-83-2	2,4-Dichlorophenol	50	31.7	63*	65-106
105-67-9	2,4-Dimethylphenol	50	22.2	44*	49-90
51-28-5	2,4-Dinitrophenol	100	68.8	69	26-125
534-52-1	4,6-Dinitro-o-cresol	100	81.5	82	56-121
95-48-7	2-Methylphenol	50	17.7	35*	48-90
	3&4-Methylphenol	100	32.4	32*	43-94
88-75-5	2-Nitrophenol	50	33.1	66	62-107
100-02-7	4-Nitrophenol	100	15.9	16*	19-66
87-86-5	Pentachlorophenol	100	79.3	79	62-120
108-95-2	Phenol	50	8.6	17*	20-65
95-95-4	2,4,5-Trichlorophenol	50	34.0	68	67-103
88-06-2	2,4,6-Trichlorophenol	50	35.4	71	68-104
83-32-9	Acenaphthene	50	37.1	74	67-101
208-96-8	Acenaphthylene	50	36.2	72	65-100
120-12-7	Anthracene	50	40.7	81	71-103
56-55-3	Benzo(a)anthracene	50	35.3	71	71-105
50-32-8	Benzo(a)pyrene	50	38.9	78	67-106
205-99-2	Benzo(b)fluoranthene	50	39.8	80	68-108
191-24-2	Benzo(g,h,i)perylene	50	39.0	78	65-110
207-08-9	Benzo(k)fluoranthene	50	40.9	82	69-110
101-55-3	4-Bromophenyl phenyl ether	50	38.9	78	71-106
85-68-7	Butyl benzyl phthalate	50	35.5	71	66-110
100-51-6	Benzyl Alcohol	50	20.1	40	36-101
91-58-7	2-Chloronaphthalene	50	34.4	69	62-99
106-47-8	4-Chloroaniline	50	29.2	58	58-101
218-01-9	Chrysene	50	36.3	73	71-105
111-91-1	bis(2-Chloroethoxy)methane	50	31.6	63	56-101
111-44-4	bis(2-Chloroethyl)ether	50	33.6	67	60-108
108-60-1	bis(2-Chloroisopropyl)ether	50	31.3	63	49-108
7005-72-3	4-Chlorophenyl phenyl ether	50	38.1	76	69-106
95-50-1	1,2-Dichlorobenzene	50	32.1	64	48-98
541-73-1	1,3-Dichlorobenzene	50	30.4	61	44-95
106-46-7	1,4-Dichlorobenzene	50	31.1	62	46-96
121-14-2	2,4-Dinitrotoluene	50	38.2	76	64-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18556-BS	R05967.D	1	11/22/06	ME	11/17/06	OP18556	SR280

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45254-1, F45254-2, F45254-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
606-20-2	2,6-Dinitrotoluene	50	36.2	72	64-102
91-94-1	3,3'-Dichlorobenzidine	50	33.4	67	54-109
53-70-3	Dibenzo(a,h)anthracene	50	39.4	79	61-112
132-64-9	Dibenzofuran	50	36.1	72	70-102
84-74-2	Di-n-butyl phthalate	50	39.9	80	69-109
117-84-0	Di-n-octyl phthalate	50	41.4	83	63-125
84-66-2	Diethyl phthalate	50	39.1	78	66-111
131-11-3	Dimethyl phthalate	50	37.3	75	66-109
117-81-7	bis(2-Ethylhexyl)phthalate	50	36.8	74	66-114
206-44-0	Fluoranthene	50	40.7	81	71-108
86-73-7	Fluorene	50	38.5	77	68-102
118-74-1	Hexachlorobenzene	50	39.0	78	69-103
87-68-3	Hexachlorobutadiene	50	31.1	62	48-100
77-47-4	Hexachlorocyclopentadiene	50	28.4	57	20-85
67-72-1	Hexachloroethane	50	29.5	59	41-98
193-39-5	Indeno(1,2,3-cd)pyrene	50	39.3	79	66-112
78-59-1	Isophorone	50	36.0	72	62-105
91-57-6	2-Methylnaphthalene	50	36.5	73	62-105
88-74-4	2-Nitroaniline	50	36.7	73	66-105
99-09-2	3-Nitroaniline	50	30.3	61	56-104
100-01-6	4-Nitroaniline	50	33.3	67	62-110
91-20-3	Naphthalene	50	33.9	68	56-99
98-95-3	Nitrobenzene	50	33.9	68	60-102
621-64-7	N-Nitroso-di-n-propylamine	50	34.4	69	56-101
86-30-6	N-Nitrosodiphenylamine	50	37.6	75	69-106
85-01-8	Phenanthrene	50	40.1	80	71-104
129-00-0	Pyrene	50	36.0	72	67-108
120-82-1	1,2,4-Trichlorobenzene	50	33.0	66	52-99

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	23%	19-90%
4165-62-2	Phenol-d5	15%	10-68%
118-79-6	2,4,6-Tribromophenol	78%	36-137%
4165-60-0	Nitrobenzene-d5	65%	49-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18556-BS	R05967.D	1	11/22/06	ME	11/17/06	OP18556	SR280

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45254-1, F45254-2, F45254-4

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	65%	45-118%
1718-51-0	Terphenyl-d14	68%	46-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18556-MS	R05972.D	1	11/22/06	ME	11/17/06	OP18556	SR280
OP18556-MSD	R05973.D	1	11/22/06	ME	11/17/06	OP18556	SR280
F45254-2 [a]	R05971.D	1	11/22/06	ME	11/17/06	OP18556	SR280

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45254-1, F45254-2, F45254-4

CAS No.	Compound	F45254-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		200	53.6	27	200	57.6	29	7	10-80/45
95-57-8	2-Chlorophenol	ND		100	54.9	55	100	54.2	54	1	43-109/27
59-50-7	4-Chloro-3-methyl phenol	ND		100	74.1	74	100	70.5	71	5	57-109/20
120-83-2	2,4-Dichlorophenol	ND		100	66.7	67	100	65.2	65	2	49-114/23
105-67-9	2,4-Dimethylphenol	ND		100	53.2	53	100	51.3	51	4	32-103/24
51-28-5	2,4-Dinitrophenol	ND		200	166	83	200	156	78	6	20-131/28
534-52-1	4,6-Dinitro-o-cresol	ND		200	184	92	200	168	84	9	46-130/23
95-48-7	2-Methylphenol	ND		100	46.2	46	100	45.6	46	1	40-102/25
	3&4-Methylphenol	ND		200	91.3	46	200	92.6	46	1	39-97/24
88-75-5	2-Nitrophenol	ND		100	66.2	66	100	63.3	63	4	46-115/26
100-02-7	4-Nitrophenol	ND		200	68.4	34	200	68.8	34	1	28-81/30
87-86-5	Pentachlorophenol	ND		200	195	98	200	174	87	11	53-128/22
108-95-2	Phenol	ND		100	27.8	28	100	27.7	28	0	19-81/33
95-95-4	2,4,5-Trichlorophenol	ND		100	79.4	79	100	72.2	72	9	56-110/19
88-06-2	2,4,6-Trichlorophenol	ND		100	75.4	75	100	70.4	70	7	55-112/19
83-32-9	Acenaphthene	ND		100	81.3	81	100	75.9	76	7	58-109/18
208-96-8	Acenaphthylene	ND		100	78.2	78	100	72.7	73	7	59-103/18
120-12-7	Anthracene	ND		100	91.0	91	100	82.6	83	10	65-108/16
56-55-3	Benzo(a)anthracene	ND		100	80.1	80	100	73.1	73	9	68-106/17
50-32-8	Benzo(a)pyrene	ND		100	88.9	89	100	80.6	81	10	61-108/18
205-99-2	Benzo(b)fluoranthene	ND		100	89.6	90	100	81.3	81	10	65-109/18
191-24-2	Benzo(g,h,i)perylene	ND		100	88.6	89	100	79.5	80	11	60-114/19
207-08-9	Benzo(k)fluoranthene	ND		100	88.7	89	100	81.6	82	8	66-111/17
101-55-3	4-Bromophenyl phenyl ether	ND		100	88.7	89	100	81.1	81	9	68-108/17
85-68-7	Butyl benzyl phthalate	ND		100	80.7	81	100	74.2	74	8	64-111/18
100-51-6	Benzyl Alcohol	ND		100	53.7	54	100	57.8	58	7	44-105/26
91-58-7	2-Chloronaphthalene	ND		100	71.7	72	100	68.0	68	5	57-102/20
106-47-8	4-Chloroaniline	ND		100	54.9	55	100	55.3	55	1	37-106/27
218-01-9	Chrysene	ND		100	82.1	82	100	73.9	74	11	69-106/17
111-91-1	bis(2-Chloroethoxy)methane	ND		100	62.1	62	100	60.8	61	2	46-106/24
111-44-4	bis(2-Chloroethyl)ether	ND		100	64.7	65	100	64.0	64	1	48-114/28
108-60-1	bis(2-Chloroisopropyl)ether	ND		100	60.0	60	100	59.9	60	0	43-110/26
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	85.0	85	100	77.4	77	9	66-107/17
95-50-1	1,2-Dichlorobenzene	ND		100	66.3	66	100	64.3	64	3	45-103/24
541-73-1	1,3-Dichlorobenzene	ND		100	63.5	64	100	60.5	61	5	42-100/24
106-46-7	1,4-Dichlorobenzene	ND		100	63.9	64	100	61.4	61	4	43-102/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18556-MS	R05972.D	1	11/22/06	ME	11/17/06	OP18556	SR280
OP18556-MSD	R05973.D	1	11/22/06	ME	11/17/06	OP18556	SR280
F45254-2 [a]	R05971.D	1	11/22/06	ME	11/17/06	OP18556	SR280

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45254-1, F45254-2, F45254-4

CAS No.	Compound	F45254-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
121-14-2	2,4-Dinitrotoluene	ND		100	90.9	91	100	81.7	82	11	60-108/18
606-20-2	2,6-Dinitrotoluene	ND		100	83.4	83	100	75.2	75	10	59-105/18
91-94-1	3,3'-Dichlorobenzidine	ND		100	66.1	66	100	61.5	62	7	21-120/24
53-70-3	Dibenzo(a,h)anthracene	ND		100	89.4	89	100	80.5	81	10	59-112/18
132-64-9	Dibenzofuran	ND		100	81.1	81	100	76.4	76	6	65-105/17
84-74-2	Di-n-butyl phthalate	ND		100	90.8	91	100	82.7	83	9	68-109/18
117-84-0	Di-n-octyl phthalate	ND		100	90.9	91	100	83.9	84	8	59-127/23
84-66-2	Diethyl phthalate	ND		100	89.6	90	100	82.9	83	8	64-111/18
131-11-3	Dimethyl phthalate	ND		100	85.7	86	100	79.2	79	8	63-109/17
117-81-7	bis(2-Ethylhexyl)phthalate	3.6	J	100	86.2	83	100	79.0	75	9	58-119/21
206-44-0	Fluoranthene	ND		100	92.2	92	100	83.1	83	10	68-110/18
86-73-7	Fluorene	ND		100	87.9	88	100	80.5	81	9	62-106/17
118-74-1	Hexachlorobenzene	ND		100	88.6	89	100	78.6	79	12	66-106/16
87-68-3	Hexachlorobutadiene	ND		100	63.6	64	100	60.8	61	5	46-107/26
77-47-4	Hexachlorocyclopentadiene	ND		100	56.0	56	100	51.2	51	9	16-84/31
67-72-1	Hexachloroethane	ND		100	62.0	62	100	60.4	60	3	39-105/25
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	88.1	88	100	79.8	80	10	61-115/19
78-59-1	Isophorone	ND		100	73.4	73	100	71.4	71	3	54-107/22
91-57-6	2-Methylnaphthalene	ND		100	74.6	75	100	73.4	73	2	53-112/22
88-74-4	2-Nitroaniline	ND		100	86.5	87	100	79.4	79	9	60-108/18
99-09-2	3-Nitroaniline	ND		100	68.3	68	100	67.1	67	2	43-103/23
100-01-6	4-Nitroaniline	ND		100	84.3	84	100	79.7	80	6	55-110/19
91-20-3	Naphthalene	ND		100	68.6	69	100	65.4	65	5	49-104/24
98-95-3	Nitrobenzene	ND		100	64.9	65	100	63.2	63	3	50-107/25
621-64-7	N-Nitroso-di-n-propylamine	ND		100	71.0	71	100	69.4	69	2	47-104/23
86-30-6	N-Nitrosodiphenylamine	ND		100	84.9	85	100	76.3	76	11	63-110/17
85-01-8	Phenanthrene	ND		100	90.7	91	100	81.8	82	10	67-108/17
129-00-0	Pyrene	ND		100	80.3	80	100	73.1	73	9	65-108/18
120-82-1	1,2,4-Trichlorobenzene	ND		100	66.0	66	100	63.2	63	4	49-104/25

CAS No.	Surrogate Recoveries	MS	MSD	F45254-2	Limits
367-12-4	2-Fluorophenol	33%	34%	21%	19-90%
4165-62-2	Phenol-d5	24%	26%	14%	10-68%
118-79-6	2,4,6-Tribromophenol	87%	81%	86%	36-137%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18556-MS	R05972.D	1	11/22/06	ME	11/17/06	OP18556	SR280
OP18556-MSD	R05973.D	1	11/22/06	ME	11/17/06	OP18556	SR280
F45254-2 [a]	R05971.D	1	11/22/06	ME	11/17/06	OP18556	SR280

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45254-1, F45254-2, F45254-4

CAS No.	Surrogate Recoveries	MS	MSD	F45254-2	Limits
4165-60-0	Nitrobenzene-d5	63%	63%	67%	49-119%
321-60-8	2-Fluorobiphenyl	66%	64%	70%	45-118%
1718-51-0	Terphenyl-d14	71%	66%	65%	46-135%

(a) Confirmed by re-extraction and reanalysis beyond holdtime.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18576-MB	TT03825.D	1	12/01/06	VS	11/20/06	OP18576	GTT134

The QC reported here applies to the following samples: **Method:** SW846 8081A

F45254-1, F45254-2, F45254-4

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.050	0.020	ug/l	
319-84-6	alpha-BHC	ND	0.050	0.015	ug/l	
319-85-7	beta-BHC	ND	0.050	0.020	ug/l	
319-86-8	delta-BHC	ND	0.050	0.020	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.050	0.015	ug/l	
5103-71-9	alpha-Chlordane	ND	0.050	0.015	ug/l	
5103-74-2	gamma-Chlordane	ND	0.050	0.015	ug/l	
60-57-1	Dieldrin	ND	0.050	0.015	ug/l	
72-54-8	4,4'-DDD	ND	0.10	0.020	ug/l	
72-55-9	4,4'-DDE	ND	0.10	0.020	ug/l	
50-29-3	4,4'-DDT	ND	0.10	0.020	ug/l	
72-20-8	Endrin	ND	0.10	0.040	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.10	0.020	ug/l	
7421-93-4	Endrin aldehyde	ND	0.10	0.040	ug/l	
53494-70-5	Endrin ketone	ND	0.10	0.020	ug/l	
959-98-8	Endosulfan-I	ND	0.050	0.015	ug/l	
33213-65-9	Endosulfan-II	ND	0.10	0.020	ug/l	
76-44-8	Heptachlor	ND	0.050	0.020	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.050	0.015	ug/l	
72-43-5	Methoxychlor	ND	0.10	0.040	ug/l	
8001-35-2	Toxaphene	ND	2.5	1.3	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	121%	60-138%
2051-24-3	Decachlorobiphenyl	107%	31-148%

Blank Spike Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18576-BS	TT03824.D	1	12/01/06	VS	11/20/06	OP18576	GTT134

The QC reported here applies to the following samples: **Method:** SW846 8081A

F45254-1, F45254-2, F45254-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.5	0.56	112	70-127
319-84-6	alpha-BHC	0.5	0.58	116	65-136
319-85-7	beta-BHC	0.5	0.55	110	68-133
319-86-8	delta-BHC	0.5	0.38	76	48-126
58-89-9	gamma-BHC (Lindane)	0.5	0.56	112	69-137
5103-71-9	alpha-Chlordane	0.5	0.58	116	74-127
5103-74-2	gamma-Chlordane	0.5	0.61	122	75-130
60-57-1	Dieldrin	0.5	0.58	116	76-131
72-54-8	4,4'-DDD	0.5	0.60	120	76-140
72-55-9	4,4'-DDE	0.5	0.59	118	73-137
50-29-3	4,4'-DDT	0.5	0.47	94	74-134
72-20-8	Endrin	0.5	0.61	122	78-134
1031-07-8	Endosulfan sulfate	0.5	0.53	106	73-127
7421-93-4	Endrin aldehyde	0.5	0.097	19	5-104
53494-70-5	Endrin ketone	0.5	0.52	104	80-128
959-98-8	Endosulfan-I	0.5	0.56	112	76-128
33213-65-9	Endosulfan-II	0.5	0.56	112	77-131
76-44-8	Heptachlor	0.5	0.51	102	62-137
1024-57-3	Heptachlor epoxide	0.5	0.57	114	74-130
72-43-5	Methoxychlor	0.5	0.49	98	77-131

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	102%	60-138%
2051-24-3	Decachlorobiphenyl	101%	31-148%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45254
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18576-MS	TT03830.D	1	12/01/06	VS	11/20/06	OP18576	GTT134
OP18576-MSD	TT03831.D	1	12/01/06	VS	11/20/06	OP18576	GTT134
F45339-1	TT03829.D	1	12/01/06	VS	11/20/06	OP18576	GTT134

The QC reported here applies to the following samples: **Method:** SW846 8081A

F45254-1, F45254-2, F45254-4

CAS No.	Compound	F45339-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		1	0.95	95	1	0.84	84	12	73-135/25
319-84-6	alpha-BHC	ND		1	1.1	110	1	1.1	110	0	75-134/24
319-85-7	beta-BHC	ND		1	1.1	110	1	0.98	98	12	73-141/23
319-86-8	delta-BHC	ND		1	0.70	70	1	0.61	61	14	29-148/32
58-89-9	gamma-BHC (Lindane)	ND		1	1.1	110	1	1.0	100	10	75-140/21
5103-71-9	alpha-Chlordane	ND		1	0.98	98	1	0.85	85	14	73-135/22
5103-74-2	gamma-Chlordane	ND		1	0.99	99	1	0.87	87	13	74-138/26
60-57-1	Dieldrin	ND		1	1.1	110	1	1.0	100	10	74-141/23
72-54-8	4,4'-DDD	ND		1	1.0	100	1	0.93	93	7	81-142/24
72-55-9	4,4'-DDE	ND		1	0.88	88	1	0.75	75*	16	77-139/26
50-29-3	4,4'-DDT	ND		1	0.68	68	1	0.56	56*	19	65-147/29
72-20-8	Endrin	ND		1	1.1	110	1	1.0	100	10	72-149/21
1031-07-8	Endosulfan sulfate	ND		1	0.96	96	1	0.83	83	15	66-140/31
7421-93-4	Endrin aldehyde	ND		1	0.19	19	1	0.086	9	75*	5-113/49
53494-70-5	Endrin ketone	ND		1	0.93	93	1	0.87	87	7	75-138/25
959-98-8	Endosulfan-I	ND		1	1.1	110	1	0.97	97	13	74-139/21
33213-65-9	Endosulfan-II	ND		1	1.1	110	1	0.96	96	14	70-145/25
76-44-8	Heptachlor	ND		1	0.89	89	1	0.82	82	8	74-136/25
1024-57-3	Heptachlor epoxide	ND		1	1.0	100	1	0.96	96	4	75-138/21
72-43-5	Methoxychlor	ND		1	0.73	73	1	0.62	62*	16	69-145/27

CAS No.	Surrogate Recoveries	MS	MSD	F45339-1	Limits
877-09-8	Tetrachloro-m-xylene	102%	95%	98%	60-138%
2051-24-3	Decachlorobiphenyl	60%	54%	52%	31-148%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F45254
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10712
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 11/16/06

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	18	18		
Antimony	6.0	3.4	3.4		
Arsenic	10	2.8	2.8	0.0	<10
Barium	200	5	.4	-0.030	<200
Beryllium	4.0	1	.4		
Cadmium	5.0	1	.3	0.090	<5.0
Calcium	1000	42	42		
Chromium	10	.6	.6	-0.39	<10
Cobalt	50	1	.6		
Copper	25	.9	1		
Iron	300	12	15		
Lead	5.0	1.7	1.7	1.9	<5.0
Magnesium	5000	4.3	4.3		
Manganese	15	.6	1.5		
Molybdenum	50	1.3	1.6		
Nickel	40	1	.8		
Potassium	10000	10	100		
Selenium	10	2	2.8	2.2	<10
Silver	10	.9	.9	-0.18	<10
Sodium	10000	500	500		
Thallium	10	2.3	2.9		
Tin	50	3.1	3.8		
Vanadium	50	.6	1.1		
Zinc	20	1.3	1.6		

Associated samples MP10712: F45254-1, F45254-2, F45254-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F45254
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10712
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:			11/16/06					11/16/06	
Metal	F45254-1 Original	DUP	RPD	QC Limits	F45254-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	23.4	23.2	0.9	0-20	23.4	2250	2000	111.3	70-130
Barium	15.8	15.3	3.2	0-20	15.8	2110	2000	104.7	70-130
Beryllium									
Cadmium	0.0	0.0	NC	0-20	0.0	47.2	50	94.4	70-130
Calcium									
Chromium	0.0	0.0	NC	0-20	0.0	199	200	99.5	70-130
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	468	500	93.6	70-130
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium	0.0	0.0 (a)	NC	0-20	0.0	2280	2000	114.0	70-130
Silver	0.0	0.0	NC	0-20	0.0	55.2	50	110.4	70-130
Sodium									
Thallium									
Tin									
Vanadium									
Zinc									

Associated samples MP10712: F45254-1, F45254-2, F45254-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F45254
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10712
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 11/16/06

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	2010	2000	100.5	85-115
Barium	2030	2000	101.5	85-115
Beryllium				
Cadmium	51.8	50	103.6	85-115
Calcium				
Chromium	212	200	106.0	85-115
Cobalt				
Copper				
Iron				
Lead	512	500	102.4	85-115
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	1880	2000	94.0	85-115
Silver	48.6	50	97.2	85-115
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP10712: F45254-1, F45254-2, F45254-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F45254
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10712
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 11/16/06

Metal	F45254-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	23.4	0.00	100.0(a)	0-10
Barium	15.8	0.00	100.0(a)	0-10
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP10712: F45254-1, F45254-2, F45254-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F45254
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10717
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 11/17/06

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.08	.1	0.012	<1.0

Associated samples MP10717: F45254-1, F45254-2, F45254-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F45254
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10717
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 11/17/06 11/17/06

Metal	F45254-1 Original	DUP	RPD	QC Limits	F45254-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.21	0.15	33.3 (a)	0-10	0.21	2.5	3	76.3	70-130

Associated samples MP10717: F45254-1, F45254-2, F45254-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F45254
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10717
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 11/17/06

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	2.9	3	96.7	85-115

Associated samples MP10717: F45254-1, F45254-2, F45254-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.3

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Southeast ACCUTEST LABORATORIES

11/10/14

Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

PROJECT #9050361.01.04

Accutest Job Number: F45339

Sampling Date: 11/16/06

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **69**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Jean Dent-Smith 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 (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Accutest LabLink@155481 15:37 10-Nov-2014

Sample Summary

Bhate Environmental Associates, Inc.

Job No: F45339

HOLMN
Project No: PROJECT #9050361.01.04

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F45339-1	11/16/06	12:45	TL	11/17/06	AQ	Ground Water	SD08-MW08-08
F45339-2	11/16/06	12:45	TL	11/17/06	AQ	Ground Water	SD08-MW08-08D
F45339-3	11/16/06	12:45	TL	11/17/06	AQ	Trip Blank Water	TRIP BLANK
F45339-4	11/16/06	12:45	TL	11/17/06	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Bhate Environmental Associates, Inc. **Job No:** F45339

Site: HOLMN **Report Date** 12/7/2006 11:00:21

2 Samples, 1 Trip Blank were collected on 11/16/2006 and received at Accutest on 11/17/2006 properly preserved, at 1.4 Deg. C and intact. These Samples received an Accutest job number of F45339. 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:** VJ1088

All samples were analyzed within the recommended method holding time.

Sample(s) F45339-1MS, F45339-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for cis-1,3-Dichloropropene, Trans-1,4-Dichloro-2-Butene are outside control limits.

Matrix Spike Duplicate Recovery(s) for 2-Chloroethyl vinyl ether, cis-1,3-Dichloropropene, Methylene bromide are outside control limits. Refer to Blank Spike for method performance in clean matrix.

RPD(s) for MSD for 2-Chloroethyl vinyl ether are outside control limits for sample F45339-1MSD. Probable cause due to sample homogeneity.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP18583

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F45309-5MS, F45309-5MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

MS/MSD Recovery(s) for Benzidine are outside control limits. Probable cause due to matrix interference.

Sample(s) F45339-1, F45339-2 have surrogates outside control limits. Probable cause due to matrix interference.

F45339-1: Confirmed ND by re-extraction and reanalysis beyond holdtime.

F45339-2: Confirmed ND by re-extraction and reanalysis beyond holdtime.

Matrix: AQ **Batch ID:** OP18655

The following samples were extracted outside of holding time for method SW846 8270C: F45339-1, F45339-2

Sample(s) F45339-1, F45339-2 have surrogates outside control limits. Probable cause due to matrix interference.

F45339-1: Confirmation run.

F45339-2: Confirmation run.

Extractables by GC By Method SW846 8081A

Matrix: AQ **Batch ID:** OP18576

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F45339-1MS, F45339-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Duplicate Recovery(s) for 4,4'-DDE, 4,4'-DDT, Methoxychlor are outside control limits. See Blank Spike.

RPD(s) for MSD for Endrin aldehyde are outside control limits for sample OP18576-MSD. Probable cause due to sample homogeneity.

Metals By Method EPA 200.7

Matrix: AQ **Batch ID:** MP10750

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) F45309-5DUP, F45309-5MS, F45309-5SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Silver are outside control limits for sample MP10750-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Barium, Chromium, Silver are outside control limits for sample MP10750-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

F45339-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

F45339-2 for Selenium: Elevated reporting limit(s) due to matrix interference.

Metals By Method EPA 245.1

Matrix: AQ **Batch ID:** MP10729

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) F45309-5DUP, F45309-5MS were used as the QC samples for metals.

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: December 07, 2006

Svetlana Izosimova, QAO (signature on file)

Summary of Hits

Job Number: F45339
Account: Bhate Environmental Associates, Inc.
Project: HOLMN
Collected: 11/16/06

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Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F45339-1	**SD08-MW08-08**					
Chloroform		0.51 J	1.0	0.50	ug/l	SW846 8260B
Arsenic		7.4 J	10	2.8	ug/l	EPA 200.7
Barium		41.1 J	200	0.40	ug/l	EPA 200.7
Chromium		0.68 J	10	0.60	ug/l	EPA 200.7
F45339-2	**SD08-MW08-08D**					
Arsenic		6.0 J	10	2.8	ug/l	EPA 200.7
Barium		46.0 J	200	0.40	ug/l	EPA 200.7
Cadmium		0.43 J	5.0	0.30	ug/l	EPA 200.7
F45339-3	**TRIP BLANK**					
Methylene chloride		4.0 J	5.0	1.0	ug/l	SW846 8260B
F45339-4	**TRIP BLANK**					

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD08-MW08-08		
Lab Sample ID:	F45339-1	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J026425.D	1	11/29/06	AB	n/a	n/a	VJ1088
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	0.51	1.0	0.50	ug/l	J
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-08		
Lab Sample ID:	F45339-1	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-08		
Lab Sample ID:	F45339-1	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		86-115%
17060-07-0	1,2-Dichloroethane-D4	116%		73-126%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	104%		83-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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Report of Analysis

Client Sample ID:	SD08-MW08-08		
Lab Sample ID:	F45339-1	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R06009.D	1	11/23/06	ME	11/21/06	OP18583	SR282
Run #2 [b]	L035027.D	1	11/30/06	NJ	11/28/06	OP18655	SL1795

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
92-87-5	Benzidine	ND	25	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	4.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-08		
Lab Sample ID:	F45339-1	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	10	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	10	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%	31%	19-90%
4165-62-2	Phenol-d5	22%	22%	10-68%
118-79-6	2,4,6-Tribromophenol	75%	74%	36-137%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-08		
Lab Sample ID:	F45339-1	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%	64%	49-119%
321-60-8	2-Fluorobiphenyl	58%	66%	45-118%
1718-51-0	Terphenyl-d14	42%	45%	46-135%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.
(b) Confirmation run.

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:	SD08-MW08-08		
Lab Sample ID:	F45339-1	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT03829.D	1	12/01/06	VS	11/20/06	OP18576	GTT134
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.049	0.020	ug/l	
319-84-6	alpha-BHC	ND	0.049	0.015	ug/l	
319-85-7	beta-BHC	ND	0.049	0.020	ug/l	
319-86-8	delta-BHC	ND	0.049	0.020	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.049	0.015	ug/l	
5103-71-9	alpha-Chlordane	ND	0.049	0.015	ug/l	
5103-74-2	gamma-Chlordane	ND	0.049	0.015	ug/l	
60-57-1	Dieldrin	ND	0.049	0.015	ug/l	
72-54-8	4,4'-DDD	ND	0.098	0.020	ug/l	
72-55-9	4,4'-DDE	ND	0.098	0.020	ug/l	
50-29-3	4,4'-DDT	ND	0.098	0.020	ug/l	
72-20-8	Endrin	ND	0.098	0.039	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.098	0.020	ug/l	
7421-93-4	Endrin aldehyde	ND	0.098	0.039	ug/l	
53494-70-5	Endrin ketone	ND	0.098	0.020	ug/l	
959-98-8	Endosulfan-I	ND	0.049	0.015	ug/l	
33213-65-9	Endosulfan-II	ND	0.098	0.020	ug/l	
76-44-8	Heptachlor	ND	0.049	0.020	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.049	0.015	ug/l	
72-43-5	Methoxychlor	ND	0.098	0.039	ug/l	
8001-35-2	Toxaphene	ND	2.5	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		60-138%
2051-24-3	Decachlorobiphenyl	52%		31-148%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-08		
Lab Sample ID:	F45339-1	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
		Percent Solids:	n/a
Project:	HOLMN		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	7.4 J	10	2.8	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]
Barium	41.1 J	200	0.40	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	0.30 U	5.0	0.30	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]
Chromium	0.68 J	10	0.60	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.7 U	5.0	1.7	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.10 U	1.0	0.10	ug/l	1	11/20/06	11/20/06	MS	EPA 245.1 [1]	EPA 245.1 [3]
Selenium [a]	110 U	200	110	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]
Silver	0.90 U	10	0.90	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA5360
(2) Instrument QC Batch: MA5367
(3) Prep QC Batch: MP10729
(4) Prep QC Batch: MP10750

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SD08-MW08-08D		
Lab Sample ID:	F45339-2	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J026426.D	1	11/29/06	AB	n/a	n/a	VJ1088
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-08D		
Lab Sample ID:	F45339-2	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-08D		
Lab Sample ID:	F45339-2	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		86-115%
17060-07-0	1,2-Dichloroethane-D4	118%		73-126%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	104%		83-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-08D		
Lab Sample ID:	F45339-2	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R06010.D	1	11/23/06	ME	11/21/06	OP18583	SR282
Run #2 [b]	L035028.D	1	11/30/06	NJ	11/28/06	OP18655	SL1795

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	9.9	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	9.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.9	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	9.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	9.9	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.99	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.99	ug/l	
120-12-7	Anthracene	ND	5.0	0.99	ug/l	
92-87-5	Benzidine	ND	25	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.99	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.99	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.99	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.99	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.99	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.99	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.99	ug/l	
106-47-8	4-Chloroaniline	ND	9.9	4.0	ug/l	
218-01-9	Chrysene	ND	5.0	0.99	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.99	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-08D		
Lab Sample ID:	F45339-2	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.99	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.99	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.99	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.99	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.99	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.9	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.99	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.99	ug/l	
86-73-7	Fluorene	ND	5.0	0.99	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.99	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	0.99	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.99	ug/l	
88-74-4	2-Nitroaniline	ND	9.9	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	9.9	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	9.9	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.99	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.99	ug/l	
129-00-0	Pyrene	ND	5.0	0.99	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.99	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%	27%	19-90%
4165-62-2	Phenol-d5	22%	18%	10-68%
118-79-6	2,4,6-Tribromophenol	81%	64%	36-137%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-08D		
Lab Sample ID:	F45339-2	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%	51%	49-119%
321-60-8	2-Fluorobiphenyl	65%	49%	45-118%
1718-51-0	Terphenyl-d14	42%	47%	46-135%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.
(b) Confirmation run.

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:	SD08-MW08-08D		
Lab Sample ID:	F45339-2	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT03832.D	1	12/01/06	VS	11/20/06	OP18576	GTT134
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.049	0.020	ug/l	
319-84-6	alpha-BHC	ND	0.049	0.015	ug/l	
319-85-7	beta-BHC	ND	0.049	0.020	ug/l	
319-86-8	delta-BHC	ND	0.049	0.020	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.049	0.015	ug/l	
5103-71-9	alpha-Chlordane	ND	0.049	0.015	ug/l	
5103-74-2	gamma-Chlordane	ND	0.049	0.015	ug/l	
60-57-1	Dieldrin	ND	0.049	0.015	ug/l	
72-54-8	4,4'-DDD	ND	0.098	0.020	ug/l	
72-55-9	4,4'-DDE	ND	0.098	0.020	ug/l	
50-29-3	4,4'-DDT	ND	0.098	0.020	ug/l	
72-20-8	Endrin	ND	0.098	0.039	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.098	0.020	ug/l	
7421-93-4	Endrin aldehyde	ND	0.098	0.039	ug/l	
53494-70-5	Endrin ketone	ND	0.098	0.020	ug/l	
959-98-8	Endosulfan-I	ND	0.049	0.015	ug/l	
33213-65-9	Endosulfan-II	ND	0.098	0.020	ug/l	
76-44-8	Heptachlor	ND	0.049	0.020	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.049	0.015	ug/l	
72-43-5	Methoxychlor	ND	0.098	0.039	ug/l	
8001-35-2	Toxaphene	ND	2.5	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		60-138%
2051-24-3	Decachlorobiphenyl	54%		31-148%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-08D		
Lab Sample ID:	F45339-2	**Date Sampled:**	11/16/06
Matrix:	AQ - Ground Water	**Date Received:**	11/17/06
		Percent Solids:	n/a
Project:	HOLMN		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	6.0 J	10	2.8	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]
Barium	46.0 J	200	0.40	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	0.43 J	5.0	0.30	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]
Chromium	0.60 U	10	0.60	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.7 U	5.0	1.7	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.10 U	1.0	0.10	ug/l	1	11/20/06	11/20/06	MS	EPA 245.1 [1]	EPA 245.1 [3]
Selenium [a]	110 U	200	110	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]
Silver	0.90 U	10	0.90	ug/l	1	11/21/06	11/21/06	RS	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA5360
(2) Instrument QC Batch: MA5367
(3) Prep QC Batch: MP10729
(4) Prep QC Batch: MP10750

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45339-3	**Date Sampled:**	11/16/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J026431.D	1	11/29/06	AB	n/a	n/a	VJ1088
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45339-3	**Date Sampled:**	11/16/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	4.0	5.0	1.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45339-3	**Date Sampled:**	11/16/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		86-115%
17060-07-0	1,2-Dichloroethane-D4	114%		73-126%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	105%		83-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45339-4	**Date Sampled:**	11/16/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J026432.D	1	11/29/06	AB	n/a	n/a	VJ1088
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45339-4	**Date Sampled:**	11/16/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45339-4	**Date Sampled:**	11/16/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/17/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		86-115%
17060-07-0	1,2-Dichloroethane-D4	115%		73-126%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	107%		83-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range 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

F45339

BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

Page 1 of 4

Project Number 9050361.01.04

P.O. NA

Chain of Custody Number [1]:111620062

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: T Lucero

Field Sample ID (10 Character Max)	ERPIMS LOCID (15 Character Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Number of Containers	VOC 8260	SVOC 8270	Pest 8081	RCRA Metals 6010/7470					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Code: ID
1) SD08-MW08-08MS/MSD	SD08-MW08-08MS/MSD	16/11/2006	1245	0' 0'	MS/MSD	1	WG	8	[1]	[1]	[1]	[1]								2
4) Trip Blank	Field QC	16/11/2006	1245		TB		WQ	1	[1]											2

Sample Analysis Requested [5] — Quality Assurance Samples [6]

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 Email Results to rrenvironmental@zianet.com;keving@zianet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	11-16-2006	1600	[signature]		
2.	[signature]			[signature]	11/17/06	0900
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FEDEX Airbill Number:

Analytical Lab: Accutest Lab Delivery Location: Orlando FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day: (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SO = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

0.4

5.1

5

F45339: Chain of Custody

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F45339

BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

Page 1 of 1

Project Number 9050361.01.04

P.O. NA

Chain of Custody Number [1]: 111620061

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: T Lucero

Field Sample ID (10 Character Max)	ERPIMS LOCID (15 Character Max)	Date Collected (dd-month-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Sample Analysis Requested [5]: number of containers	VOC 8260	SVOC 8270	Pest 8081	RCRA Metals 6010/7470					Quality Assurance Samples [6]: Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Code: ID
1) SD08-MW08-08	SD08-MW08-08	16/11/2006	1245	0' 0'	N	1	WG	8	[1]	[1]	[1]	[1]								1
2) SD08-MW08-08D	SD08-MW08-08D	16/11/2006	1245	0' 0'	FD	1	WG	8	[1]	[1]	[1]	[1]								1
3) Trip Blank	Field QC	16/11/2006	1245		TB		WQ	1	[1]											1

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 Email Results to rrenvironmental@zianet.com;keving@zianet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.		11-16-2006	1600			
2.					11/17/06	0900
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FEDEX Airbill Number:

Analytical Lab: Accutest Lab Delivery Location: Orlando FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-a) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: OS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SD = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 101099-01 in the Equipment Blank Lot Control

1.4

5.1

5

F45339: Chain of Custody
Page 2 of 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F45339 CLIENT: BHATE PROJECT: HOMW SD08

DATE/TIME RECEIVED: 11/17/06 - 0900 # OF COOLERS RECEIVED: 2 COOLER TEMPS: 1.4, 0.4

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8581 0102 5765

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

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

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

NUMBER OR LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [signature] TECHNICIAN SIGNATURE/DATE ASBD 10/03/06

5.1

5

F45339: Chain of Custody

Page 3 of 3

Job Change Order: F45339_12/15/2006

Requested Date:	12/15/2006	**Received Date:**	11/17/2006
Account Name:	Bhate Environmental Associates,	**Due Date:**	12/1/2006
Project Description:	HOLMN	**Deliverable:**	COMMBN
CSR:	HW	**TAT (Days):**	14

Sample #:
F45339--1

Change: Please log sample in for TDS per client

Above Changes Per: Jim Moore- BHATE **Date:** 12/15/2006

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1088-MB	J026420.D	1	11/29/06	AB	n/a	n/a	VJ1088

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45339-1, F45339-2, F45339-3, F45339-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1088-MB	J026420.D	1	11/29/06	AB	n/a	n/a	VJ1088

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45339-1, F45339-2, F45339-3, F45339-4

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

Method Blank Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1088-MB	J026420.D	1	11/29/06	AB	n/a	n/a	VJ1088

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45339-1, F45339-2, F45339-3, F45339-4

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	115%	86-115%
17060-07-0	1,2-Dichloroethane-D4	112%	73-126%
2037-26-5	Toluene-D8	89%	86-112%
460-00-4	4-Bromofluorobenzene	102%	83-119%

Blank Spike Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1088-BS	J026419.D	1	11/29/06	AB	n/a	n/a	VJ1088

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45339-1, F45339-2, F45339-3, F45339-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	112	90	44-142
75-05-8	Acetonitrile	250	222	89	50-150 [a]
107-02-8	Acrolein	125	75.3	60	32-168
107-13-1	Acrylonitrile	125	113	90	35-130
107-05-1	Allyl chloride	25	25.6	102	50-150 [a]
71-43-2	Benzene	25	27.4	110	80-120
100-44-7	Benzyl Chloride	25	21.8	87	50-150 [a]
108-86-1	Bromobenzene	25	26.0	104	76-114
74-97-5	Bromochloromethane	25	25.8	103	75-121
75-27-4	Bromodichloromethane	25	28.2	113	75-120
75-25-2	Bromoform	25	27.7	111	60-129
104-51-8	n-Butylbenzene	25	24.8	99	76-122
135-98-8	sec-Butylbenzene	25	27.5	110	84-122
98-06-6	tert-Butylbenzene	25	27.5	110	77-124
108-90-7	Chlorobenzene	25	26.9	108	82-112
75-00-3	Chloroethane	25	31.4	126	67-148
67-66-3	Chloroform	25	29.2	117	78-118
544-10-5	1-Chlorohexane	25	26.6	106	82-130
95-49-8	o-Chlorotoluene	25	25.3	101	80-121
106-43-4	p-Chlorotoluene	25	26.0	104	78-120
110-75-8	2-Chloroethyl vinyl ether	125	125	100	23-132
75-15-0	Carbon disulfide	25	23.3	93	65-147
56-23-5	Carbon tetrachloride	25	32.0	128	69-137
75-34-3	1,1-Dichloroethane	25	27.7	111	75-117
75-35-4	1,1-Dichloroethylene	25	26.4	106	67-134
563-58-6	1,1-Dichloropropene	25	29.1	116	84-127
96-12-8	1,2-Dibromo-3-chloropropane	25	20.7	83	54-125
106-93-4	1,2-Dibromoethane	25	24.1	96	68-116
107-06-2	1,2-Dichloroethane	25	28.8	115	68-121
78-87-5	1,2-Dichloropropane	25	27.1	108	78-122
142-28-9	1,3-Dichloropropane	25	24.3	97	72-116
594-20-7	2,2-Dichloropropane	25	29.5	118	68-134
124-48-1	Dibromochloromethane	25	24.8	99	68-118
75-71-8	Dichlorodifluoromethane	25	21.7	87	43-173
156-59-2	cis-1,2-Dichloroethylene	25	25.9	104	81-120
10061-01-5	cis-1,3-Dichloropropene	25	28.4	114	73-115

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1088-BS	J026419.D	1	11/29/06	AB	n/a	n/a	VJ1088

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45339-1, F45339-2, F45339-3, F45339-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	25	27.2	109	50-150 [a]
541-73-1	m-Dichlorobenzene	25	26.5	106	78-116
95-50-1	o-Dichlorobenzene	25	26.8	107	77-115
106-46-7	p-Dichlorobenzene	25	25.7	103	77-113
156-60-5	trans-1,2-Dichloroethylene	25	27.6	110	74-125
10061-02-6	trans-1,3-Dichloropropene	25	26.5	106	69-115
100-41-4	Ethylbenzene	25	26.5	106	82-115
97-63-2	Ethyl methacrylate	25	21.3	85	50-150 [a]
76-13-1	Freon 113	25	26.9	108	72-148
591-78-6	2-Hexanone	125	111	89	60-125
87-68-3	Hexachlorobutadiene	25	29.6	118	62-138
110-54-3	Hexane	25	25.8	103	70-148
98-82-8	Isopropylbenzene	25	28.2	113	83-129
99-87-6	p-Isopropyltoluene	25	27.6	110	85-125
108-10-1	4-Methyl-2-pentanone	125	114	91	61-128
126-98-7	Methacrylonitrile	250	234	94	50-150 [a]
74-83-9	Methyl bromide	25	27.1	108	60-165
74-87-3	Methyl chloride	25	32.5	130	58-152
74-88-4	Methyl iodide	25	24.6	98	61-140
80-62-6	Methyl methacrylate	25	23.5	94	71-128
74-95-3	Methylene bromide	25	26.9	108	75-114
75-09-2	Methylene chloride	25	25.0	100	66-125
78-93-3	Methyl ethyl ketone	125	119	95	58-127
1634-04-4	Methyl Tert Butyl Ether	25	24.7	99	67-127
91-20-3	Naphthalene	25	21.7	87	62-129
76-01-7	Pentachloroethane	25	25.3	101	50-150 [a]
107-12-0	Propionitrile	250	241	96	50-150 [a]
103-65-1	n-Propylbenzene	25	26.7	107	80-122
100-42-5	Styrene	25	24.4	98	58-125
630-20-6	1,1,1,2-Tetrachloroethane	25	27.4	110	73-118
71-55-6	1,1,1-Trichloroethane	25	30.3	121	78-132
79-34-5	1,1,2,2-Tetrachloroethane	25	22.6	90	67-119
79-00-5	1,1,2-Trichloroethane	25	24.2	97	74-115
87-61-6	1,2,3-Trichlorobenzene	25	24.3	97	65-125
96-18-4	1,2,3-Trichloropropane	25	24.1	96	68-114
120-82-1	1,2,4-Trichlorobenzene	25	24.2	97	66-122

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1088-BS	J026419.D	1	11/29/06	AB	n/a	n/a	VJ1088

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45339-1, F45339-2, F45339-3, F45339-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	25	27.2	109	77-119
108-67-8	1,3,5-Trimethylbenzene	25	27.1	108	81-120
127-18-4	Tetrachloroethylene	25	29.4	118	75-126
108-88-3	Toluene	25	26.2	105	81-114
79-01-6	Trichloroethylene	25	28.1	112	80-115
75-69-4	Trichlorofluoromethane	25	28.1	112	65-163
110-57-6	Trans-1,4-Dichloro-2-Butene	25	26.9	108	38-130
75-01-4	Vinyl chloride	25	24.6	98	70-151
108-05-4	Vinyl Acetate	125	124	99	42-146
	m,p-Xylene	50	56.2	112	83-118
95-47-6	o-Xylene	25	26.2	105	77-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	86-115%
17060-07-0	1,2-Dichloroethane-D4	108%	73-126%
2037-26-5	Toluene-D8	96%	86-112%
460-00-4	4-Bromofluorobenzene	95%	83-119%

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F45339-1MS	J026427.D	1	11/29/06	AB	n/a	n/a	VJ1088
F45339-1MSD	J026428.D	1	11/29/06	AB	n/a	n/a	VJ1088
F45339-1	J026425.D	1	11/29/06	AB	n/a	n/a	VJ1088

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45339-1, F45339-2, F45339-3, F45339-4

CAS No.	Compound	F45339-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	125	100	125	126	101	1	45-127/15
75-05-8	Acetonitrile	ND		250	250	100	250	245	98	2	50-150/30 [a]
107-02-8	Acrolein	ND		125	71.1	57	125	70.9	57	0	26-185/18
107-13-1	Acrylonitrile	ND		125	133	106	125	134	107	1	39-140/12
107-05-1	Allyl chloride	ND		25	27.2	109	25	26.6	106	2	50-150/30 [a]
71-43-2	Benzene	ND		25	27.6	110	25	27.6	110	0	72-125/7
100-44-7	Benzyl Chloride	ND		25	26.1	104	25	25.4	102	3	50-150/30 [a]
108-86-1	Bromobenzene	ND		25	25.4	102	25	25.4	102	0	72-113/10
74-97-5	Bromochloromethane	ND		25	26.0	104	25	25.6	102	2	73-121/9
75-27-4	Bromodichloromethane	ND		25	28.4	114	25	28.7	115	1	72-120/8
75-25-2	Bromoform	ND		25	28.8	115	25	28.5	114	1	55-127/11
104-51-8	n-Butylbenzene	ND		25	25.9	104	25	25.6	102	1	69-122/10
135-98-8	sec-Butylbenzene	ND		25	28.3	113	25	27.5	110	3	75-125/9
98-06-6	tert-Butylbenzene	ND		25	28.4	114	25	27.9	112	2	70-125/12
108-90-7	Chlorobenzene	ND		25	27.3	109	25	27.0	108	1	79-113/7
75-00-3	Chloroethane	ND		25	30.2	121	25	30.3	121	0	56-164/14
67-66-3	Chloroform	0.51	J	25	29.7	117	25	30.1	118	1	75-120/8
544-10-5	1-Chlorohexane	ND		25	27.3	109	25	26.9	108	1	77-127/9
95-49-8	o-Chlorotoluene	ND		25	26.9	108	25	26.6	106	1	76-122/9
106-43-4	p-Chlorotoluene	ND		25	27.1	108	25	26.7	107	1	73-120/9
110-75-8	2-Chloroethyl vinyl ether	ND		125	34.6	28	125	ND	0*	200*	8-137/18
75-15-0	Carbon disulfide	ND		25	25.7	103	25	24.8	99	4	60-151/12
56-23-5	Carbon tetrachloride	ND		25	31.5	126	25	31.7	127	1	56-145/12
75-34-3	1,1-Dichloroethane	ND		25	28.7	115	25	28.7	115	0	70-122/10
75-35-4	1,1-Dichloroethylene	ND		25	27.6	110	25	27.4	110	1	61-137/15
563-58-6	1,1-Dichloropropene	ND		25	29.1	116	25	29.0	116	0	80-126/9
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	26.5	106	25	27.0	108	2	49-127/18
106-93-4	1,2-Dibromoethane	ND		25	26.4	106	25	26.4	106	0	67-113/10
107-06-2	1,2-Dichloroethane	ND		25	30.5	122	25	30.2	121	1	64-124/7
78-87-5	1,2-Dichloropropane	ND		25	28.1	112	25	27.9	112	1	74-123/8
142-28-9	1,3-Dichloropropane	ND		25	27.3	109	25	26.8	107	2	70-116/8
594-20-7	2,2-Dichloropropane	ND		25	29.3	117	25	29.0	116	1	64-133/13
124-48-1	Dibromochloromethane	ND		25	26.3	105	25	26.2	105	0	63-119/9
75-71-8	Dichlorodifluoromethane	ND		25	22.7	91	25	21.7	87	5	35-184/21
156-59-2	cis-1,2-Dichloroethylene	ND		25	26.4	106	25	26.5	106	0	74-125/9
10061-01-5	cis-1,3-Dichloropropene	ND		25	29.8	119*	25	28.7	115*	4	65-112/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F45339-1MS	J026427.D	1	11/29/06	AB	n/a	n/a	VJ1088
F45339-1MSD	J026428.D	1	11/29/06	AB	n/a	n/a	VJ1088
F45339-1	J026425.D	1	11/29/06	AB	n/a	n/a	VJ1088

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45339-1, F45339-2, F45339-3, F45339-4

CAS No.	Compound	F45339-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	ND		25	31.8	127	25	30.4	122	5	50-150/30 [a]
541-73-1	m-Dichlorobenzene	ND		25	27.0	108	25	26.9	108	0	74-114/7
95-50-1	o-Dichlorobenzene	ND		25	27.5	110	25	27.6	110	0	73-114/8
106-46-7	p-Dichlorobenzene	ND		25	26.3	105	25	26.2	105	0	74-112/7
156-60-5	trans-1,2-Dichloroethylene	ND		25	28.5	114	25	28.3	113	1	70-127/11
10061-02-6	trans-1,3-Dichloropropene	ND		25	27.9	112	25	27.8	111	0	59-116/11
100-41-4	Ethylbenzene	ND		25	27.1	108	25	26.7	107	1	73-119/8
97-63-2	Ethyl methacrylate	ND		25	25.4	102	25	25.8	103	2	50-150/30 [a]
76-13-1	Freon 113	ND		25	28.6	114	25	27.7	111	3	67-151/14
591-78-6	2-Hexanone	ND		125	159	127	125	156	125	2	54-131/11
87-68-3	Hexachlorobutadiene	ND		25	27.0	108	25	26.4	106	2	52-133/13
110-54-3	Hexane	ND		25	27.6	110	25	27.0	108	2	62-153/12
98-82-8	Isopropylbenzene	ND		25	29.0	116	25	28.4	114	2	79-127/8
99-87-6	p-Isopropyltoluene	ND		25	28.5	114	25	27.7	111	3	77-126/8
108-10-1	4-Methyl-2-pentanone	ND		125	158	126	125	156	125	1	57-136/11
126-98-7	Methacrylonitrile	ND		250	286	114	250	274	110	4	50-150/30 [a]
74-83-9	Methyl bromide	ND		25	27.9	112	25	27.7	111	1	52-172/16
74-87-3	Methyl chloride	ND		25	38.6	154	25	33.5	134	14	53-155/19
74-88-4	Methyl iodide	ND		25	24.4	98	25	24.6	98	1	52-141/12
80-62-6	Methyl methacrylate	ND		25	27.9	112	25	27.6	110	1	76-115/11
74-95-3	Methylene bromide	ND		25	28.3	113	25	28.9	116*	2	73-115/9
75-09-2	Methylene chloride	ND		25	27.9	112	25	27.0	108	3	61-129/11
78-93-3	Methyl ethyl ketone	ND		125	145	116	125	143	114	1	51-128/10
1634-04-4	Methyl Tert Butyl Ether	ND		25	27.2	109	25	27.4	110	1	61-129/9
91-20-3	Naphthalene	ND		25	26.6	106	25	26.7	107	0	52-127/13
76-01-7	Pentachloroethane	ND		25	24.7	99	25	24.4	98	1	50-150/30 [a]
107-12-0	Propionitrile	ND		250	265	106	250	262	105	1	50-150/30 [a]
103-65-1	n-Propylbenzene	ND		25	27.6	110	25	27.0	108	2	73-123/10
100-42-5	Styrene	ND		25	25.4	102	25	25.3	101	0	64-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	27.6	110	25	27.7	111	0	69-118/8
71-55-6	1,1,1-Trichloroethane	ND		25	30.4	122	25	30.0	120	1	72-133/8
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	27.1	108	25	26.3	105	3	64-120/10
79-00-5	1,1,2-Trichloroethane	ND		25	27.7	111	25	27.4	110	1	72-116/9
87-61-6	1,2,3-Trichlorobenzene	ND		25	25.9	104	25	26.1	104	1	58-121/12
96-18-4	1,2,3-Trichloropropane	ND		25	28.5	114	25	27.6	110	3	63-116/13
120-82-1	1,2,4-Trichlorobenzene	ND		25	24.8	99	25	25.4	102	2	58-120/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F45339-1MS	J026427.D	1	11/29/06	AB	n/a	n/a	VJ1088
F45339-1MSD	J026428.D	1	11/29/06	AB	n/a	n/a	VJ1088
F45339-1	J026425.D	1	11/29/06	AB	n/a	n/a	VJ1088

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45339-1, F45339-2, F45339-3, F45339-4

CAS No.	Compound	F45339-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	ND		25	27.9	112	25	27.4	110	2	68-122/10
108-67-8	1,3,5-Trimethylbenzene	ND		25	27.8	111	25	27.1	108	3	70-125/9
127-18-4	Tetrachloroethylene	ND		25	27.4	110	25	28.1	112	3	70-126/9
108-88-3	Toluene	ND		25	27.1	108	25	26.5	106	2	67-123/8
79-01-6	Trichloroethylene	ND		25	27.6	110	25	28.3	113	3	73-117/10
75-69-4	Trichlorofluoromethane	ND		25	29.3	117	25	28.6	114	2	52-164/16
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		25	33.3	133*	25	31.5	126	6	27-131/22
75-01-4	Vinyl chloride	ND		25	24.4	98	25	23.6	94	3	63-161/18
108-05-4	Vinyl Acetate	ND		125	153	122	125	153	122	0	37-154/10
	m,p-Xylene	ND		50	58.0	116	50	57.9	116	0	74-123/7
95-47-6	o-Xylene	ND		25	27.2	109	25	26.6	106	2	68-123/7

CAS No.	Surrogate Recoveries	MS	MSD	F45339-1	Limits
1868-53-7	Dibromofluoromethane	105%	106%	112%	86-115%
17060-07-0	1,2-Dichloroethane-D4	113%	113%	116%	73-126%
2037-26-5	Toluene-D8	97%	97%	91%	86-112%
460-00-4	4-Bromofluorobenzene	98%	97%	104%	83-119%

(a) Advisory control limits.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18583-MB	R05994.D	1	11/22/06	ME	11/21/06	OP18583	SR281

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45339-1, F45339-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
92-87-5	Benzidine	ND	25	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	4.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18583-MB	R05994.D	1	11/22/06	ME	11/21/06	OP18583	SR281

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45339-1, F45339-2

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	10	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	10	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	35%	19-90%
4165-62-2	Phenol-d5	21%	10-68%

Method Blank Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18583-MB	R05994.D	1	11/22/06	ME	11/21/06	OP18583	SR281

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45339-1, F45339-2

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	83%	36-137%
4165-60-0	Nitrobenzene-d5	71%	49-119%
321-60-8	2-Fluorobiphenyl	67%	45-118%
1718-51-0	Terphenyl-d14	79%	46-135%

Method Blank Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18583-MB	R06075.D	1	11/29/06	NJ	11/21/06	OP18583	SR285

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45339-1, F45339-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
92-87-5	Benzidine	ND	25	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	4.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18583-MB	R06075.D	1	11/29/06	NJ	11/21/06	OP18583	SR285

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45339-1, F45339-2

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	10	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	10	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	34%	19-90%
4165-62-2	Phenol-d5	20%	10-68%

Method Blank Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18583-MB	R06075.D	1	11/29/06	NJ	11/21/06	OP18583	SR285

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45339-1, F45339-2

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	78%	36-137%
4165-60-0	Nitrobenzene-d5	67%	49-119%
321-60-8	2-Fluorobiphenyl	64%	45-118%
1718-51-0	Terphenyl-d14	84%	46-135%

Blank Spike Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18583-BS	R05993.D	1	11/22/06	ME	11/21/06	OP18583	SR281

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45339-1, F45339-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	23.3	23	10-50
95-57-8	2-Chlorophenol	50	35.3	71	57-100
59-50-7	4-Chloro-3-methyl phenol	50	39.7	79	63-105
120-83-2	2,4-Dichlorophenol	50	38.7	77	65-106
105-67-9	2,4-Dimethylphenol	50	29.7	59	49-90
51-28-5	2,4-Dinitrophenol	100	81.3	81	26-125
534-52-1	4,6-Dinitro-o-cresol	100	89.3	89	56-121
95-48-7	2-Methylphenol	50	29.8	60	48-90
	3&4-Methylphenol	100	56.9	57	43-94
88-75-5	2-Nitrophenol	50	38.4	77	62-107
100-02-7	4-Nitrophenol	100	30.8	31	19-66
87-86-5	Pentachlorophenol	100	86.6	87	62-120
108-95-2	Phenol	50	16.1	32	20-65
95-95-4	2,4,5-Trichlorophenol	50	40.3	81	67-103
88-06-2	2,4,6-Trichlorophenol	50	40.5	81	68-104
83-32-9	Acenaphthene	50	40.6	81	67-101
208-96-8	Acenaphthylene	50	39.4	79	65-100
120-12-7	Anthracene	50	42.4	85	71-103
92-87-5	Benzidine	50	16.4	33	21-101
56-55-3	Benzo(a)anthracene	50	37.1	74	71-105
50-32-8	Benzo(a)pyrene	50	41.6	83	67-106
205-99-2	Benzo(b)fluoranthene	50	42.0	84	68-108
191-24-2	Benzo(g,h,i)perylene	50	43.4	87	65-110
207-08-9	Benzo(k)fluoranthene	50	41.8	84	69-110
101-55-3	4-Bromophenyl phenyl ether	50	40.4	81	71-106
85-68-7	Butyl benzyl phthalate	50	36.4	73	66-110
100-51-6	Benzyl Alcohol	50	34.9	70	36-101
91-58-7	2-Chloronaphthalene	50	36.8	74	62-99
106-47-8	4-Chloroaniline	50	37.1	74	58-101
218-01-9	Chrysene	50	37.7	75	71-105
111-91-1	bis(2-Chloroethoxy)methane	50	34.4	69	56-101
111-44-4	bis(2-Chloroethyl)ether	50	36.3	73	60-108
108-60-1	bis(2-Chloroisopropyl)ether	50	33.0	66	49-108
7005-72-3	4-Chlorophenyl phenyl ether	50	40.7	81	69-106
95-50-1	1,2-Dichlorobenzene	50	28.6	57	48-98
541-73-1	1,3-Dichlorobenzene	50	26.0	52	44-95

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18583-BS	R05993.D	1	11/22/06	ME	11/21/06	OP18583	SR281

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45339-1, F45339-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-46-7	1,4-Dichlorobenzene	50	26.9	54	46-96
121-14-2	2,4-Dinitrotoluene	50	41.5	83	64-107
606-20-2	2,6-Dinitrotoluene	50	39.4	79	64-102
91-94-1	3,3'-Dichlorobenzidine	50	35.1	70	54-109
53-70-3	Dibenzo(a,h)anthracene	50	43.3	87	61-112
132-64-9	Dibenzofuran	50	40.0	80	70-102
84-74-2	Di-n-butyl phthalate	50	40.5	81	69-109
117-84-0	Di-n-octyl phthalate	50	40.4	81	63-125
84-66-2	Diethyl phthalate	50	41.1	82	66-111
131-11-3	Dimethyl phthalate	50	40.7	81	66-109
117-81-7	bis(2-Ethylhexyl)phthalate	50	36.9	74	66-114
206-44-0	Fluoranthene	50	43.4	87	71-108
86-73-7	Fluorene	50	42.1	84	68-102
118-74-1	Hexachlorobenzene	50	41.2	82	69-103
87-68-3	Hexachlorobutadiene	50	25.8	52	48-100
77-47-4	Hexachlorocyclopentadiene	50	17.9	36	20-85
67-72-1	Hexachloroethane	50	23.7	47	41-98
193-39-5	Indeno(1,2,3-cd)pyrene	50	43.3	87	66-112
78-59-1	Isophorone	50	40.5	81	62-105
91-57-6	2-Methylnaphthalene	50	39.2	78	62-105
88-74-4	2-Nitroaniline	50	41.7	83	66-105
99-09-2	3-Nitroaniline	50	39.2	78	56-104
100-01-6	4-Nitroaniline	50	42.0	84	62-110
91-20-3	Naphthalene	50	33.6	67	56-99
98-95-3	Nitrobenzene	50	37.2	74	60-102
621-64-7	N-Nitroso-di-n-propylamine	50	38.1	76	56-101
86-30-6	N-Nitrosodiphenylamine	50	39.4	79	69-106
85-01-8	Phenanthrene	50	42.0	84	71-104
129-00-0	Pyrene	50	37.1	74	67-108
120-82-1	1,2,4-Trichlorobenzene	50	30.5	61	52-99

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	43%	19-90%
4165-62-2	Phenol-d5	28%	10-68%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18583-BS	R05993.D	1	11/22/06	ME	11/21/06	OP18583	SR281

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45339-1, F45339-2

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	87%	36-137%
4165-60-0	Nitrobenzene-d5	73%	49-119%
321-60-8	2-Fluorobiphenyl	72%	45-118%
1718-51-0	Terphenyl-d14	73%	46-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18583-MS	R06007.D	1	11/23/06	ME	11/21/06	OP18583	SR282
OP18583-MSD	R06008.D	1	11/23/06	ME	11/21/06	OP18583	SR282
F45309-5	R06006.D	1	11/23/06	ME	11/21/06	OP18583	SR282

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45339-1, F45339-2

CAS No.	Compound	F45309-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		208	96.0	46	208	106	51	10	10-80/45
95-57-8	2-Chlorophenol	ND		104	64.3	62	104	75.5	72	16	43-109/27
59-50-7	4-Chloro-3-methyl phenol	ND		104	80.4	77	104	84.6	81	5	57-109/20
120-83-2	2,4-Dichlorophenol	ND		104	74.8	72	104	83.3	80	11	49-114/23
105-67-9	2,4-Dimethylphenol	ND		104	52.6	50	104	61.3	59	15	32-103/24
51-28-5	2,4-Dinitrophenol	ND		208	167	80	208	168	81	1	20-131/28
534-52-1	4,6-Dinitro-o-cresol	ND		208	179	86	208	181	87	1	46-130/23
95-48-7	2-Methylphenol	ND		104	58.6	56	104	70.9	68	19	40-102/25
	3&4-Methylphenol	ND		208	128	61	208	150	72	16	39-97/24
88-75-5	2-Nitrophenol	ND		104	69.7	67	104	81.4	78	15	46-115/26
100-02-7	4-Nitrophenol	ND		208	117	56	208	112	54	4	28-81/30
87-86-5	Pentachlorophenol	ND		208	182	87	208	185	89	2	53-128/22
108-95-2	Phenol	ND		104	47.9	46	104	55.7	53	15	19-81/33
95-95-4	2,4,5-Trichlorophenol	ND		104	81.7	78	104	83.8	80	3	56-110/19
88-06-2	2,4,6-Trichlorophenol	ND		104	79.5	76	104	85.8	82	8	55-112/19
83-32-9	Acenaphthene	ND		104	81.2	78	104	86.2	83	6	58-109/18
208-96-8	Acenaphthylene	ND		104	78.8	76	104	83.4	80	6	59-103/18
120-12-7	Anthracene	ND		104	85.3	82	104	88.2	85	3	65-108/16
92-87-5	Benzidine	ND		104	ND	0*	104	ND	0*	nc	11-98/21
56-55-3	Benzo(a)anthracene	ND		104	76.1	73	104	76.3	73	0	68-106/17
50-32-8	Benzo(a)pyrene	ND		104	84.9	82	104	85.2	82	0	61-108/18
205-99-2	Benzo(b)fluoranthene	ND		104	86.1	83	104	86.2	83	0	65-109/18
191-24-2	Benzo(g,h,i)perylene	ND		104	89.1	86	104	88.1	85	1	60-114/19
207-08-9	Benzo(k)fluoranthene	ND		104	85.4	82	104	85.4	82	0	66-111/17
101-55-3	4-Bromophenyl phenyl ether	ND		104	81.5	78	104	85.8	82	5	68-108/17
85-68-7	Butyl benzyl phthalate	ND		104	75.0	72	104	75.6	73	1	64-111/18
100-51-6	Benzyl Alcohol	ND		104	72.6	70	104	83.1	80	13	44-105/26
91-58-7	2-Chloronaphthalene	ND		104	74.0	71	104	81.4	78	10	57-102/20
106-47-8	4-Chloroaniline	ND		104	61.1	59	104	68.3	66	11	37-106/27
218-01-9	Chrysene	ND		104	77.4	74	104	76.2	73	2	69-106/17
111-91-1	bis(2-Chloroethoxy)methane	ND		104	63.9	61	104	72.9	70	13	46-106/24
111-44-4	bis(2-Chloroethyl)ether	ND		104	64.8	62	104	76.6	74	17	48-114/28
108-60-1	bis(2-Chloroisopropyl)ether	ND		104	59.8	57	104	72.3	69	19	43-110/26
7005-72-3	4-Chlorophenyl phenyl ether	ND		104	81.7	78	104	84.0	81	3	66-107/17
95-50-1	1,2-Dichlorobenzene	ND		104	65.6	63	104	79.8	77	20	45-103/24
541-73-1	1,3-Dichlorobenzene	ND		104	63.9	61	104	77.0	74	19	42-100/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18583-MS	R06007.D	1	11/23/06	ME	11/21/06	OP18583	SR282
OP18583-MSD	R06008.D	1	11/23/06	ME	11/21/06	OP18583	SR282
F45309-5	R06006.D	1	11/23/06	ME	11/21/06	OP18583	SR282

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45339-1, F45339-2

CAS No.	Compound	F45309-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		104	63.8	61	104	77.1	74	19	43-102/24
121-14-2	2,4-Dinitrotoluene	ND		104	84.2	81	104	84.3	81	0	60-108/18
606-20-2	2,6-Dinitrotoluene	ND		104	80.3	77	104	80.6	77	0	59-105/18
91-94-1	3,3'-Dichlorobenzidine	ND		104	69.4	67	104	68.8	66	1	21-120/24
53-70-3	Dibenzo(a,h)anthracene	ND		104	89.5	86	104	89.7	86	0	59-112/18
132-64-9	Dibenzofuran	ND		104	79.9	77	104	83.2	80	4	65-105/17
84-74-2	Di-n-butyl phthalate	ND		104	81.6	78	104	82.2	79	1	68-109/18
117-84-0	Di-n-octyl phthalate	ND		104	84.2	81	104	85.9	82	2	59-127/23
84-66-2	Diethyl phthalate	ND		104	83.7	80	104	84.4	81	1	64-111/18
131-11-3	Dimethyl phthalate	ND		104	81.2	78	104	83.5	80	3	63-109/17
117-81-7	bis(2-Ethylhexyl)phthalate	ND		104	76.0	73	104	77.6	74	2	58-119/21
206-44-0	Fluoranthene	ND		104	86.8	83	104	87.7	84	1	68-110/18
86-73-7	Fluorene	ND		104	83.7	80	104	85.8	82	2	62-106/17
118-74-1	Hexachlorobenzene	ND		104	82.3	79	104	86.2	83	5	66-106/16
87-68-3	Hexachlorobutadiene	ND		104	64.8	62	104	76.7	74	17	46-107/26
77-47-4	Hexachlorocyclopentadiene	ND		104	53.5	51	104	66.0	63	21	16-84/31
67-72-1	Hexachloroethane	ND		104	61.7	59	104	74.2	71	18	39-105/25
193-39-5	Indeno(1,2,3-cd)pyrene	ND		104	89.8	86	104	88.9	85	1	61-115/19
78-59-1	Isophorone	ND		104	75.4	72	104	84.9	82	12	54-107/22
91-57-6	2-Methylnaphthalene	ND		104	76.0	73	104	85.0	82	11	53-112/22
88-74-4	2-Nitroaniline	ND		104	83.4	80	104	85.3	82	2	60-108/18
99-09-2	3-Nitroaniline	ND		104	70.8	68	104	67.7	65	4	43-103/23
100-01-6	4-Nitroaniline	ND		104	82.7	79	104	81.8	79	1	55-110/19
91-20-3	Naphthalene	ND		104	69.1	66	104	80.6	77	15	49-104/24
98-95-3	Nitrobenzene	ND		104	67.7	65	104	78.0	75	14	50-107/25
621-64-7	N-Nitroso-di-n-propylamine	ND		104	67.0	64	104	81.6	78	20	47-104/23
86-30-6	N-Nitrosodiphenylamine	ND		104	79.1	76	104	82.4	79	4	63-110/17
85-01-8	Phenanthrene	ND		104	85.9	82	104	87.1	84	1	67-108/17
129-00-0	Pyrene	ND		104	76.8	74	104	77.7	75	1	65-108/18
120-82-1	1,2,4-Trichlorobenzene	ND		104	67.1	64	104	78.6	75	16	49-104/25

CAS No.	Surrogate Recoveries	MS	MSD	F45309-5	Limits
367-12-4	2-Fluorophenol	51%	61%	33%	19-90%
4165-62-2	Phenol-d5	44%	50%	21%	10-68%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18583-MS	R06007.D	1	11/23/06	ME	11/21/06	OP18583	SR282
OP18583-MSD	R06008.D	1	11/23/06	ME	11/21/06	OP18583	SR282
F45309-5	R06006.D	1	11/23/06	ME	11/21/06	OP18583	SR282

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45339-1, F45339-2

CAS No.	Surrogate Recoveries	MS	MSD	F45309-5	Limits
118-79-6	2,4,6-Tribromophenol	81%	84%	82%	36-137%
4165-60-0	Nitrobenzene-d5	63%	73%	59%	49-119%
321-60-8	2-Fluorobiphenyl	67%	74%	58%	45-118%
1718-51-0	Terphenyl-d14	65%	67%	57%	46-135%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18576-MB	TT03825.D	1	12/01/06	VS	11/20/06	OP18576	GTT134

The QC reported here applies to the following samples: **Method:** SW846 8081A

F45339-1, F45339-2

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.050	0.020	ug/l	
319-84-6	alpha-BHC	ND	0.050	0.015	ug/l	
319-85-7	beta-BHC	ND	0.050	0.020	ug/l	
319-86-8	delta-BHC	ND	0.050	0.020	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.050	0.015	ug/l	
5103-71-9	alpha-Chlordane	ND	0.050	0.015	ug/l	
5103-74-2	gamma-Chlordane	ND	0.050	0.015	ug/l	
60-57-1	Dieldrin	ND	0.050	0.015	ug/l	
72-54-8	4,4'-DDD	ND	0.10	0.020	ug/l	
72-55-9	4,4'-DDE	ND	0.10	0.020	ug/l	
50-29-3	4,4'-DDT	ND	0.10	0.020	ug/l	
72-20-8	Endrin	ND	0.10	0.040	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.10	0.020	ug/l	
7421-93-4	Endrin aldehyde	ND	0.10	0.040	ug/l	
53494-70-5	Endrin ketone	ND	0.10	0.020	ug/l	
959-98-8	Endosulfan-I	ND	0.050	0.015	ug/l	
33213-65-9	Endosulfan-II	ND	0.10	0.020	ug/l	
76-44-8	Heptachlor	ND	0.050	0.020	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.050	0.015	ug/l	
72-43-5	Methoxychlor	ND	0.10	0.040	ug/l	
8001-35-2	Toxaphene	ND	2.5	1.3	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	121%	60-138%
2051-24-3	Decachlorobiphenyl	107%	31-148%

Blank Spike Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18576-BS	TT03824.D	1	12/01/06	VS	11/20/06	OP18576	GTT134

The QC reported here applies to the following samples: **Method:** SW846 8081A

F45339-1, F45339-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.5	0.56	112	70-127
319-84-6	alpha-BHC	0.5	0.58	116	65-136
319-85-7	beta-BHC	0.5	0.55	110	68-133
319-86-8	delta-BHC	0.5	0.38	76	48-126
58-89-9	gamma-BHC (Lindane)	0.5	0.56	112	69-137
5103-71-9	alpha-Chlordane	0.5	0.58	116	74-127
5103-74-2	gamma-Chlordane	0.5	0.61	122	75-130
60-57-1	Dieldrin	0.5	0.58	116	76-131
72-54-8	4,4'-DDD	0.5	0.60	120	76-140
72-55-9	4,4'-DDE	0.5	0.59	118	73-137
50-29-3	4,4'-DDT	0.5	0.47	94	74-134
72-20-8	Endrin	0.5	0.61	122	78-134
1031-07-8	Endosulfan sulfate	0.5	0.53	106	73-127
7421-93-4	Endrin aldehyde	0.5	0.097	19	5-104
53494-70-5	Endrin ketone	0.5	0.52	104	80-128
959-98-8	Endosulfan-I	0.5	0.56	112	76-128
33213-65-9	Endosulfan-II	0.5	0.56	112	77-131
76-44-8	Heptachlor	0.5	0.51	102	62-137
1024-57-3	Heptachlor epoxide	0.5	0.57	114	74-130
72-43-5	Methoxychlor	0.5	0.49	98	77-131

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	102%	60-138%
2051-24-3	Decachlorobiphenyl	101%	31-148%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45339
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18576-MS	TT03830.D	1	12/01/06	VS	11/20/06	OP18576	GTT134
OP18576-MSD	TT03831.D	1	12/01/06	VS	11/20/06	OP18576	GTT134
F45339-1	TT03829.D	1	12/01/06	VS	11/20/06	OP18576	GTT134

The QC reported here applies to the following samples: **Method:** SW846 8081A

F45339-1, F45339-2

CAS No.	Compound	F45339-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		1	0.95	95	1	0.84	84	12	73-135/25
319-84-6	alpha-BHC	ND		1	1.1	110	1	1.1	110	0	75-134/24
319-85-7	beta-BHC	ND		1	1.1	110	1	0.98	98	12	73-141/23
319-86-8	delta-BHC	ND		1	0.70	70	1	0.61	61	14	29-148/32
58-89-9	gamma-BHC (Lindane)	ND		1	1.1	110	1	1.0	100	10	75-140/21
5103-71-9	alpha-Chlordane	ND		1	0.98	98	1	0.85	85	14	73-135/22
5103-74-2	gamma-Chlordane	ND		1	0.99	99	1	0.87	87	13	74-138/26
60-57-1	Dieldrin	ND		1	1.1	110	1	1.0	100	10	74-141/23
72-54-8	4,4'-DDD	ND		1	1.0	100	1	0.93	93	7	81-142/24
72-55-9	4,4'-DDE	ND		1	0.88	88	1	0.75	75*	16	77-139/26
50-29-3	4,4'-DDT	ND		1	0.68	68	1	0.56	56*	19	65-147/29
72-20-8	Endrin	ND		1	1.1	110	1	1.0	100	10	72-149/21
1031-07-8	Endosulfan sulfate	ND		1	0.96	96	1	0.83	83	15	66-140/31
7421-93-4	Endrin aldehyde	ND		1	0.19	19	1	0.086	9	75*	5-113/49
53494-70-5	Endrin ketone	ND		1	0.93	93	1	0.87	87	7	75-138/25
959-98-8	Endosulfan-I	ND		1	1.1	110	1	0.97	97	13	74-139/21
33213-65-9	Endosulfan-II	ND		1	1.1	110	1	0.96	96	14	70-145/25
76-44-8	Heptachlor	ND		1	0.89	89	1	0.82	82	8	74-136/25
1024-57-3	Heptachlor epoxide	ND		1	1.0	100	1	0.96	96	4	75-138/21
72-43-5	Methoxychlor	ND		1	0.73	73	1	0.62	62*	16	69-145/27

CAS No.	Surrogate Recoveries	MS	MSD	F45339-1	Limits
877-09-8	Tetrachloro-m-xylene	102%	95%	98%	60-138%
2051-24-3	Decachlorobiphenyl	60%	54%	52%	31-148%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F45339
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10729
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 11/20/06

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.08	.1	0.076	<1.0

Associated samples MP10729: F45339-1, F45339-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F45339
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10729
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 11/20/06 11/20/06

Metal	F45309-5 Original	DUP	RPD	QC Limits	F45309-5 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-10	0.0	3.0	3	100.0	70-130

Associated samples MP10729: F45339-1, F45339-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F45339
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10729
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 11/20/06

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	2.9	3	96.7	85-115

Associated samples MP10729: F45339-1, F45339-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F45339
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10750
Matrix Type: AQUEOUS

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Prep Date: 11/21/06

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	18	18		
Antimony	6.0	3.4	3.4		
Arsenic	10	2.8	2.8	0.11	<10
Barium	200	5	.4	0.030	<200
Beryllium	4.0	1	.4		
Cadmium	5.0	1	.3	0.080	<5.0
Calcium	1000	42	42		
Chromium	10	.6	.6	-0.21	<10
Cobalt	50	1	.6		
Copper	25	.9	1		
Iron	300	12	15		
Lead	5.0	1.7	1.7	1.2	<5.0
Magnesium	5000	4.3	4.3		
Manganese	15	.6	1.5		
Molybdenum	50	1.3	1.6		
Nickel	40	1	.8		
Potassium	10000	10	100		
Selenium	10	2	2.8	0.98	<10
Silver	10	.9	.9	-0.17	<10
Sodium	10000	500	500		
Thallium	20	2.3	2.9		
Tin	50	3.1	3.8		
Vanadium	50	.6	1.1		
Zinc	20	1.3	1.6		

Associated samples MP10750: F45339-1, F45339-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F45339
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10750
Matrix Type: AQUEOUS

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Prep Date:	11/21/06						11/21/06		
Metal	F45309-5 Original	DUP	RPD	QC Limits	F45309-5 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	0.0	0.0	NC	0-20	0.0	2230	2000	111.5	70-130
Barium	0.00	14.8	1.4	0-20	0.00	2030	2000	100.8	70-130
Beryllium	anr								
Cadmium	0.0	0.0	NC	0-20	0.0	45.5	50	91.0	70-130
Calcium	anr								
Chromium	0.0	0.85	9.9	0-20	0.0	193	200	96.1	70-130
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	0.00	0.0	NC	0-20	0.00	458	500	91.6	70-130
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	0.00	0.0 (a)	NC	0-20	0.00	2170	2000	108.5	70-130
Silver	0.0	0.0	NC (b)	0-20	0.0	60.8	50	119.7	70-130
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

Associated samples MP10750: F45339-1, F45339-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F45339
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10750
Matrix Type: AQUEOUS

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Prep Date: 11/21/06

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	1980	2000	99.0	85-115
Barium	2040	2000	102.0	85-115
Beryllium	anr			
Cadmium	49.7	50	99.4	85-115
Calcium	anr			
Chromium	209	200	104.5	85-115
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	508	500	101.6	85-115
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	1870	2000	93.5	85-115
Silver	51.8	50	103.6	85-115
Sodium	anr			
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP10750: F45339-1, F45339-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F45339
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10750
Matrix Type: AQUEOUS

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Prep Date: 11/21/06

Metal	F45309-5 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	0.00	0.00	NC (a)	0-10
Beryllium	anr			
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	0.00	0.00	NC (a)	0-10
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	0.00	0.00	NC	0-10
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC (a)	0-10
Sodium	anr			
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP10750: F45339-1, F45339-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Southeast ACCUTEST LABORATORIES

11/10/14

Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

PROJECT #9050361.01.04

Accutest Job Number: F45658

Sampling Date: 12/01/06

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **58**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Jean Dent-Smith 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 (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Accutest LabLink@155481 15:37 10-Nov-2014

Sample Summary

Bhate Environmental Associates, Inc.

Job No: F45658

HOLMN
Project No: PROJECT #9050361.01.04

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F45658-1	12/01/06	12:30	TL	12/02/06	AQ	Ground Water	SD08-MW08-07
F45658-2	12/01/06	12:30	TL	12/02/06	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Bhate Environmental Associates, Inc. **Job No:** F45658

Site: HOLMN **Report Date** 12/20/2006 1:51:05

1 Sample, 1 Trip Blank were collected on 12/01/2006 and received at Accutest on 12/02/2006 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of F45658. 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:** VJ1098

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F45800-1MS, F45800-1MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,1,2-Trichloroethane, 1,2-Dibromo-3-chloropropane, m-Dichlorobenzene, Toluene are outside control limits. Probable cause due to matrix interference. For method performance in clean matrix see Blank Spike.

MS/MSD Recovery(s) for 2-Chloroethyl vinyl ether are outside control limits due to preservation. See Blank Spike.

Matrix Spike Recovery(s) for m,p-Xylene, o-Xylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

RPD(s) for MSD for 1,1,2-Trichloroethane, 1,2,3-Trichlorobenzene, Naphthalene are outside control limits for sample F45800-1MSD. Probable cause due to sample homogeneity.

Sample(s) F45658-1 have surrogates outside control limits. Probable cause due to matrix interference.

F45658-1 for 1,2-Dichloroethane-D4: Outside control limits; confirmed by reanalysis.

F45658-1 for Dibromofluoromethane: Outside control limits; confirmed by reanalysis.

Matrix: AQ **Batch ID:** VM698

All method blanks for this batch meet method specific criteria.

Sample(s) F45873-22MS, F45873-22MSD were used as the QC samples indicated.

Sample(s) F45658-1 have surrogates outside control limits. Probable cause due to matrix interference.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP18780

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F45717-1MS, F45717-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

MS/MSD Recovery(s) for Benzidine are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for Benzoic Acid are outside control limits for sample OP18780-MSD. Probable cause due to sample homogeneity.

Extractables by GC By Method SW846 8081A

Matrix: AQ **Batch ID:** OP18785

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.

F45658-1: All hits confirmed by dual column analysis.

OP18785-BS: Insufficient sample for MS/MSD.

Metals By Method SW846 6010B

Matrix: AQ **Batch ID:** MP10806

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) F45653-18DUP, F45653-18MS, F45653-18MSD, F45653-18SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Barium, Chromium, Lead are outside control limits for sample MP10806-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ **Batch ID:** MP10803

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) F45653-18DUP, F45653-18MS, F45653-18SDL were used as the QC samples for metals.

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: December 20, 2006

Svetlana Izosimova, QAO (signature on file)

Narrative prepared by:

_____ Date: April 11, 2007

Ellen Pampel, Inorganic QA (signature on file)

Summary of Hits

Job Number: F45658
Account: Bhate Environmental Associates, Inc.
Project: HOLMN
Collected: 12/01/06

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F45658-1	**SD08-MW08-07**					
1,2-Dichloroethane		54.7	1.0	0.50	ug/l	SW846 8260B
1,2-Dichloropropane		1.6	1.0	0.50	ug/l	SW846 8260B
Diethyl phthalate		11.1	4.9	2.0	ug/l	SW846 8270C
alpha-Chlordane [a]		0.016 J	0.049	0.015	ug/l	SW846 8081A
gamma-Chlordane [a]		0.030 J	0.049	0.015	ug/l	SW846 8081A
Arsenic		4.8 J	10	2.8	ug/l	SW846 6010B
Barium		28.0 J	200	5.0	ug/l	SW846 6010B
Chromium		0.70 J	10	0.60	ug/l	SW846 6010B
Lead		1.8 J	5.0	1.7	ug/l	SW846 6010B
Silver		1.1 J	10	0.90	ug/l	SW846 6010B
F45658-2	**TRIP BLANK**					
Methylene chloride		2.5 J	5.0	1.0	ug/l	SW846 8260B

(a) All hits confirmed by dual column analysis.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD08-MW08-07		
Lab Sample ID:	F45658-1	**Date Sampled:**	12/01/06
Matrix:	AQ - Ground Water	**Date Received:**	12/02/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J026658.D	1	12/14/06	JG	n/a	n/a	VJ1098
Run #2	M0016849.D	1	12/15/06	CS	n/a	n/a	VM698

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	54.7 [a]	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	1.6 [a]	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-07		
Lab Sample ID:	F45658-1	**Date Sampled:**	12/01/06
Matrix:	AQ - Ground Water	**Date Received:**	12/02/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-07		
Lab Sample ID:	F45658-1	**Date Sampled:**	12/01/06
Matrix:	AQ - Ground Water	**Date Received:**	12/02/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117% [b]	91%	86-115%
17060-07-0	1,2-Dichloroethane-D4	127% [b]	92%	73-126%
2037-26-5	Toluene-D8	92%	106%	86-112%
460-00-4	4-Bromofluorobenzene	98%	103%	83-119%

(a) Result is from Run# 2
(b) Outside control limits; confirmed by reanalysis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-07		
Lab Sample ID:	F45658-1	**Date Sampled:**	12/01/06
Matrix:	AQ - Ground Water	**Date Received:**	12/02/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L035221.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	9.8	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.9	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	9.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	4.9	ug/l	
95-48-7	2-Methylphenol	ND	4.9	2.0	ug/l	
	3&4-Methylphenol	ND	4.9	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	9.8	ug/l	
87-86-5	Pentachlorophenol	ND	25	9.8	ug/l	
108-95-2	Phenol	ND	4.9	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	2.0	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.98	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.98	ug/l	
92-87-5	Benzidine	ND	25	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.98	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.98	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.98	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.98	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.9	0.98	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.9	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.98	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	9.8	3.9	ug/l	
218-01-9	Chrysene	ND	4.9	0.98	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.98	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-07		
Lab Sample ID:	F45658-1	**Date Sampled:**	12/01/06
Matrix:	AQ - Ground Water	**Date Received:**	12/02/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.98	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.9	0.98	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.98	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.98	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.98	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.8	4.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	2.0	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.9	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.9	2.5	ug/l	
84-66-2	Diethyl phthalate	11.1	4.9	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.9	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	2.5	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.98	ug/l	
86-73-7	Fluorene	ND	4.9	0.98	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.98	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.9	2.0	ug/l	
67-72-1	Hexachloroethane	ND	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	2.0	ug/l	
78-59-1	Isophorone	ND	4.9	0.98	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.98	ug/l	
88-74-4	2-Nitroaniline	ND	9.8	3.9	ug/l	
99-09-2	3-Nitroaniline	ND	9.8	3.9	ug/l	
100-01-6	4-Nitroaniline	ND	9.8	3.9	ug/l	
91-20-3	Naphthalene	ND	4.9	0.98	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.98	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.9	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	2.0	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.98	ug/l	
129-00-0	Pyrene	ND	4.9	0.98	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.98	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		19-90%
4165-62-2	Phenol-d5	18%		10-68%
118-79-6	2,4,6-Tribromophenol	68%		36-137%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-07		
Lab Sample ID:	F45658-1	**Date Sampled:**	12/01/06
Matrix:	AQ - Ground Water	**Date Received:**	12/02/06
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	57%		49-119%
321-60-8	2-Fluorobiphenyl	58%		45-118%
1718-51-0	Terphenyl-d14	65%		46-135%

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:	SD08-MW08-07		
Lab Sample ID:	F45658-1	**Date Sampled:**	12/01/06
Matrix:	AQ - Ground Water	**Date Received:**	12/02/06
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	TT04406.D	1	12/18/06	KL	12/08/06	OP18785	GTT149
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.049	0.019	ug/l	
319-84-6	alpha-BHC	ND	0.049	0.015	ug/l	
319-85-7	beta-BHC	ND	0.049	0.019	ug/l	
319-86-8	delta-BHC	ND	0.049	0.019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.049	0.015	ug/l	
5103-71-9	alpha-Chlordane	0.016	0.049	0.015	ug/l	J
5103-74-2	gamma-Chlordane	0.030	0.049	0.015	ug/l	J
60-57-1	Dieldrin	ND	0.049	0.015	ug/l	
72-54-8	4,4'-DDD	ND	0.097	0.019	ug/l	
72-55-9	4,4'-DDE	ND	0.097	0.019	ug/l	
50-29-3	4,4'-DDT	ND	0.097	0.019	ug/l	
72-20-8	Endrin	ND	0.097	0.039	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.097	0.019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.097	0.039	ug/l	
53494-70-5	Endrin ketone	ND	0.097	0.019	ug/l	
959-98-8	Endosulfan-I	ND	0.049	0.015	ug/l	
33213-65-9	Endosulfan-II	ND	0.097	0.019	ug/l	
76-44-8	Heptachlor	ND	0.049	0.019	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.049	0.015	ug/l	
72-43-5	Methoxychlor	ND	0.097	0.039	ug/l	
8001-35-2	Toxaphene	ND	2.4	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		60-138%
2051-24-3	Decachlorobiphenyl	37%		31-148%

(a) All hits confirmed by dual column analysis.

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD08-MW08-07		
Lab Sample ID:	F45658-1	**Date Sampled:**	12/01/06
Matrix:	AQ - Ground Water	**Date Received:**	12/02/06
		Percent Solids:	n/a
Project:	HOLMN		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.8 J	10	2.8	ug/l	1	12/06/06	12/06/06	RS	SW846 6010B [2]	SW846 3010A [4]
Barium	28.0 J	200	5.0	ug/l	1	12/06/06	12/06/06	RS	SW846 6010B [2]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	12/06/06	12/06/06	RS	SW846 6010B [2]	SW846 3010A [4]
Chromium	0.70 J	10	0.60	ug/l	1	12/06/06	12/06/06	RS	SW846 6010B [2]	SW846 3010A [4]
Lead	1.8 J	5.0	1.7	ug/l	1	12/06/06	12/06/06	RS	SW846 6010B [2]	SW846 3010A [4]
Mercury	0.10 U	1.0	0.10	ug/l	1	12/06/06	12/06/06	MS	SW846 7470A [1]	SW846 7470A [3]
Selenium	2.8 U	10	2.8	ug/l	1	12/06/06	12/06/06	RS	SW846 6010B [2]	SW846 3010A [4]
Silver	1.1 J	10	0.90	ug/l	1	12/06/06	12/06/06	RS	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA5383
(2) Instrument QC Batch: MA5384
(3) Prep QC Batch: MP10803
(4) Prep QC Batch: MP10806

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45658-2	**Date Sampled:**	12/01/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/02/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J026659.D	1	12/14/06	JG	n/a	n/a	VJ1098
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45658-2	**Date Sampled:**	12/01/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/02/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	2.5	5.0	1.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F45658-2	**Date Sampled:**	12/01/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/02/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	HOLMN		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		86-115%
17060-07-0	1,2-Dichloroethane-D4	118%		73-126%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	99%		83-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range 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

F45658

BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

Page 1 of 1

Project Number 9050361.01.04

P.O. NA

Chain of Custody Number [1]:12120061

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: T Lucero

Sample Analysis Requested [5]: VOC 8260; SVOC 8270; Pest 8081; RCRA Metals 6010/7470

Quality Assurance Samples [6]: Ambient Blank Lot Control Number; Equipment Blank Lot Control Number; Trip Blank Lot Control Number

	Field Sample ID (30 Characters Max)	BRPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	# containers of containers	VOC 8260	SVOC 8270	Pest 8081	RCRA Metals 6010/7470					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Code [6]
1	SD08-MW08-07	SD08-MW08-7	01/12/06	1230	0' 0'	N	1	WG	8	[1]	[1]	[1]	[1]								1
2	Trip Blank	Field QC	01/12/06	1230		TB		WQ	1	[1]											1

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 Email Results to rrenvironmental@zlanet.com;keying@zlanet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.		12-1-2006	1600	FX	12/02/06	
2.				George Bond		0700
3.	FX					

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FEDEX Airbill Number:

Analytical Lab: Accutest Lab Delivery Location: Orlando FL

Lab Recipient: Delivery Date/Time:

1) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-a) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3) Sample Number Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4) Matrix Codes: OS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SD = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5) Sample Analysis Requested Analytical method requested and number of containers provided for each

6) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 101099 01 in the Equipment Blank Lot Control

3.4

5.1

5

F45658: Chain of Custody

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F45658 CLIENT: BHATC PROJECT: SD 08

DATE/TIME RECEIVED: 12/02/06 09:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 3.4

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8545 9102 9580

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

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

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

NUMBER OR LAB FILTERED METALS ? Ø

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 12/02/06 TECHNICIAN SIGNATURE/DATE 12-02-06 ASBD 10/03/06

5.1 5

F45658: Chain of Custody

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ACCUTEST

Job Change Order

F45658_12/15/20

Requested Date:	12/15/2006	**Received Date:**	12/1/2006
Account Name:	Bhate Environmental Associates,	**Due Date:**	12/15/2006
Project Description:	HOLMN	**Deliverable:**	COMMBN
CSR:	TM	**TAT (Days):**	14

Sample #:	**Change:**
F45658--1	Per client please login sample for TDS

Above Changes Per: Jim Moore-BHATE **Date:** 12/15/2006

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

F45658: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1098-MB	J026638.D	1	12/13/06	JG	n/a	n/a	VJ1098

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45658-1, F45658-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
75-05-8	Acetonitrile	ND	20	10	ug/l	
107-02-8	Acrolein	ND	20	10	ug/l	
107-13-1	Acrylonitrile	ND	10	5.0	ug/l	
107-05-1	Allyl chloride	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-44-7	Benzyl Chloride	ND	1.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.50	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
544-10-5	1-Chlorohexane	ND	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.50	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1098-MB	J026638.D	1	12/13/06	JG	n/a	n/a	VJ1098

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45658-1, F45658-2

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	2.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
110-54-3	Hexane	ND	2.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
126-98-7	Methacrylonitrile	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
74-88-4	Methyl iodide	ND	5.0	2.5	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	2.5	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	5.0	ug/l	
107-12-0	Propionitrile	ND	20	10	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

Method Blank Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1098-MB	J026638.D	1	12/13/06	JG	n/a	n/a	VJ1098

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45658-1, F45658-2

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
108-05-4	Vinyl Acetate	ND	10	5.0	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	110%	86-115%
17060-07-0	1,2-Dichloroethane-D4	106%	73-126%
2037-26-5	Toluene-D8	93%	86-112%
460-00-4	4-Bromofluorobenzene	97%	83-119%

Method Blank Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM698-MB	M0016834.D	1	12/15/06	CS	n/a	n/a	VM698

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45658-1

CAS No.	Compound	Result	RL	MDL	Units	Q
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	86-115%
17060-07-0	1,2-Dichloroethane-D4	92%	73-126%
2037-26-5	Toluene-D8	107%	86-112%
460-00-4	4-Bromofluorobenzene	104%	83-119%

Blank Spike Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1098-BS	J026637.D	1	12/13/06	JG	n/a	n/a	VJ1098

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45658-1, F45658-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	131	105	44-142
75-05-8	Acetonitrile	250	167	67	50-150 [a]
107-02-8	Acrolein	125	100	80	32-168
107-13-1	Acrylonitrile	125	117	94	35-130
107-05-1	Allyl chloride	25	9.5	38*	50-150 [a]
71-43-2	Benzene	25	25.6	102	80-120
100-44-7	Benzyl Chloride	25	24.8	99	50-150 [a]
108-86-1	Bromobenzene	25	24.9	100	76-114
74-97-5	Bromochloromethane	25	24.6	98	75-121
75-27-4	Bromodichloromethane	25	24.5	98	75-120
75-25-2	Bromoform	25	24.0	96	60-129
104-51-8	n-Butylbenzene	25	26.5	106	76-122
135-98-8	sec-Butylbenzene	25	25.9	104	84-122
98-06-6	tert-Butylbenzene	25	26.0	104	77-124
108-90-7	Chlorobenzene	25	25.1	100	82-112
75-00-3	Chloroethane	25	22.9	92	67-148
67-66-3	Chloroform	25	26.1	104	78-118
544-10-5	1-Chlorohexane	25	28.0	112	82-130
95-49-8	o-Chlorotoluene	25	25.3	101	80-121
106-43-4	p-Chlorotoluene	25	25.5	102	78-120
110-75-8	2-Chloroethyl vinyl ether	125	133	106	23-132
75-15-0	Carbon disulfide	25	28.4	114	65-147
56-23-5	Carbon tetrachloride	25	28.2	113	69-137
75-34-3	1,1-Dichloroethane	25	26.5	106	75-117
75-35-4	1,1-Dichloroethylene	25	26.0	104	67-134
563-58-6	1,1-Dichloropropene	25	26.5	106	84-127
96-12-8	1,2-Dibromo-3-chloropropane	25	23.5	94	54-125
106-93-4	1,2-Dibromoethane	25	24.8	99	68-116
107-06-2	1,2-Dichloroethane	25	25.9	104	68-121
78-87-5	1,2-Dichloropropane	25	25.5	102	78-122
142-28-9	1,3-Dichloropropane	25	24.5	98	72-116
594-20-7	2,2-Dichloropropane	25	26.5	106	68-134
124-48-1	Dibromochloromethane	25	24.4	98	68-118
75-71-8	Dichlorodifluoromethane	25	24.5	98	43-173
156-59-2	cis-1,2-Dichloroethylene	25	24.4	98	81-120
10061-01-5	cis-1,3-Dichloropropene	25	26.4	106	73-115

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1098-BS	J026637.D	1	12/13/06	JG	n/a	n/a	VJ1098

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45658-1, F45658-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	25	26.3	105	50-150 [a]
541-73-1	m-Dichlorobenzene	25	25.8	103	78-116
95-50-1	o-Dichlorobenzene	25	25.3	101	77-115
106-46-7	p-Dichlorobenzene	25	25.2	101	77-113
156-60-5	trans-1,2-Dichloroethylene	25	26.0	104	74-125
10061-02-6	trans-1,3-Dichloropropene	25	27.1	108	69-115
100-41-4	Ethylbenzene	25	24.9	100	82-115
97-63-2	Ethyl methacrylate	25	24.3	97	50-150 [a]
76-13-1	Freon 113	25	27.6	110	72-148
591-78-6	2-Hexanone	125	130	104	60-125
87-68-3	Hexachlorobutadiene	25	26.0	104	62-138
110-54-3	Hexane	25	27.0	108	70-148
98-82-8	Isopropylbenzene	25	27.0	108	83-129
99-87-6	p-Isopropyltoluene	25	25.8	103	85-125
108-10-1	4-Methyl-2-pentanone	125	131	105	61-128
126-98-7	Methacrylonitrile	250	200	80	50-150 [a]
74-83-9	Methyl bromide	25	23.2	93	60-165
74-87-3	Methyl chloride	25	32.0	128	58-152
74-88-4	Methyl iodide	25	26.2	105	61-140
80-62-6	Methyl methacrylate	25	21.9	88	71-128
74-95-3	Methylene bromide	25	25.8	103	75-114
75-09-2	Methylene chloride	25	24.8	99	66-125
78-93-3	Methyl ethyl ketone	125	121	97	58-127
1634-04-4	Methyl Tert Butyl Ether	25	25.4	102	67-127
91-20-3	Naphthalene	25	25.3	101	62-129
76-01-7	Pentachloroethane	25	26.3	105	50-150 [a]
107-12-0	Propionitrile	250	218	87	50-150 [a]
103-65-1	n-Propylbenzene	25	25.8	103	80-122
100-42-5	Styrene	25	25.6	102	58-125
630-20-6	1,1,1,2-Tetrachloroethane	25	25.0	100	73-118
71-55-6	1,1,1-Trichloroethane	25	27.1	108	78-132
79-34-5	1,1,2,2-Tetrachloroethane	25	24.1	96	67-119
79-00-5	1,1,2-Trichloroethane	25	24.6	98	74-115
87-61-6	1,2,3-Trichlorobenzene	25	26.8	107	65-125
96-18-4	1,2,3-Trichloropropane	25	23.8	95	68-114
120-82-1	1,2,4-Trichlorobenzene	25	25.8	103	66-122

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ1098-BS	J026637.D	1	12/13/06	JG	n/a	n/a	VJ1098

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45658-1, F45658-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	25	25.4	102	77-119
108-67-8	1,3,5-Trimethylbenzene	25	25.6	102	81-120
127-18-4	Tetrachloroethylene	25	27.0	108	75-126
108-88-3	Toluene	25	25.3	101	81-114
79-01-6	Trichloroethylene	25	25.8	103	80-115
75-69-4	Trichlorofluoromethane	25	24.4	98	65-163
110-57-6	Trans-1,4-Dichloro-2-Butene	25	26.5	106	38-130
75-01-4	Vinyl chloride	25	23.5	94	70-151
108-05-4	Vinyl Acetate	125	119	95	42-146
	m,p-Xylene	50	51.4	103	83-118
95-47-6	o-Xylene	25	25.5	102	77-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	86-115%
17060-07-0	1,2-Dichloroethane-D4	103%	73-126%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	99%	83-119%

(a) Advisory control limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM698-BS	M0016833.D	1	12/15/06	CS	n/a	n/a	VM698

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45658-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
107-06-2	1,2-Dichloroethane	25	23.5	94	68-121
78-87-5	1,2-Dichloropropane	25	25.2	101	78-122

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	94%	86-115%
17060-07-0	1,2-Dichloroethane-D4	95%	73-126%
2037-26-5	Toluene-D8	105%	86-112%
460-00-4	4-Bromofluorobenzene	101%	83-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F45800-1MS	J026648.D	1	12/13/06	JG	n/a	n/a	VJ1098
F45800-1MSD	J026649.D	1	12/13/06	JG	n/a	n/a	VJ1098
F45800-1	J026647.D	1	12/13/06	JG	n/a	n/a	VJ1098

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45658-1, F45658-2

CAS No.	Compound	F45800-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	154	123	125	146	117	5	45-127/15
75-05-8	Acetonitrile	ND		250	184	74	250	167	67	10	50-150/30 [a]
107-02-8	Acrolein	ND		125	109	87	125	111	89	2	26-185/18
107-13-1	Acrylonitrile	ND		125	143	114	125	134	107	6	39-140/12
107-05-1	Allyl chloride	ND		25	8.7	35*	25	8.5	34*	2	50-150/30 [a]
71-43-2	Benzene	54.5		25	79.6	100	25	77.9	94	2	72-125/7
100-44-7	Benzyl Chloride	ND		25	24.6	98	25	22.5	90	9	50-150/30 [a]
108-86-1	Bromobenzene	ND		25	27.0	108	25	25.8	103	5	72-113/10
74-97-5	Bromochloromethane	ND		25	24.8	99	25	23.6	94	5	73-121/9
75-27-4	Bromodichloromethane	ND		25	25.5	102	25	24.6	98	4	72-120/8
75-25-2	Bromoform	ND		25	26.5	106	25	25.7	103	3	55-127/11
104-51-8	n-Butylbenzene	6.7		25	34.6	112	25	33.4	107	4	69-122/10
135-98-8	sec-Butylbenzene	7.3		25	36.1	115	25	35.4	112	2	75-125/9
98-06-6	tert-Butylbenzene	0.96	J	25	31.0	120	25	30.5	118	2	70-125/12
108-90-7	Chlorobenzene	ND		25	26.0	104	25	25.5	102	2	79-113/7
75-00-3	Chloroethane	ND		25	24.2	97	25	23.6	94	3	56-164/14
67-66-3	Chloroform	ND		25	27.5	110	25	26.8	107	3	75-120/8
544-10-5	1-Chlorohexane	ND		25	29.0	116	25	28.2	113	3	77-127/9
95-49-8	o-Chlorotoluene	ND		25	28.5	114	25	28.9	116	1	76-122/9
106-43-4	p-Chlorotoluene	ND		25	29.5	118	25	28.8	115	2	73-120/9
110-75-8	2-Chloroethyl vinyl ether	ND		125	ND	0*	125	ND	0*	nc	8-137/18
75-15-0	Carbon disulfide	ND		25	27.8	111	25	26.8	107	4	60-151/12
56-23-5	Carbon tetrachloride	ND		25	29.4	118	25	29.0	116	1	56-145/12
75-34-3	1,1-Dichloroethane	ND		25	27.2	109	25	26.5	106	3	70-122/10
75-35-4	1,1-Dichloroethylene	ND		25	26.7	107	25	25.5	102	5	61-137/15
563-58-6	1,1-Dichloropropene	ND		25	27.3	109	25	26.0	104	5	80-126/9
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	33.8	135*	25	29.7	119	13	49-127/18
106-93-4	1,2-Dibromoethane	ND		25	26.6	106	25	25.9	104	3	67-113/10
107-06-2	1,2-Dichloroethane	ND		25	28.2	113	25	26.7	107	5	64-124/7
78-87-5	1,2-Dichloropropane	ND		25	25.8	103	25	25.5	102	1	74-123/8
142-28-9	1,3-Dichloropropane	ND		25	26.1	104	25	25.6	102	2	70-116/8
594-20-7	2,2-Dichloropropane	ND		25	24.6	98	25	24.1	96	2	64-133/13
124-48-1	Dibromochloromethane	ND		25	26.5	106	25	25.4	102	4	63-119/9
75-71-8	Dichlorodifluoromethane	ND		25	24.1	96	25	23.2	93	4	35-184/21
156-59-2	cis-1,2-Dichloroethylene	ND		25	24.0	96	25	23.1	92	4	74-125/9
10061-01-5	cis-1,3-Dichloropropene	ND		25	26.0	104	25	24.9	100	4	65-112/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F45800-1MS	J026648.D	1	12/13/06	JG	n/a	n/a	VJ1098
F45800-1MSD	J026649.D	1	12/13/06	JG	n/a	n/a	VJ1098
F45800-1	J026647.D	1	12/13/06	JG	n/a	n/a	VJ1098

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45658-1, F45658-2

CAS No.	Compound	F45800-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	ND		25	33.6	134	25	30.1	120	11	50-150/30 [a]
541-73-1	m-Dichlorobenzene	ND		25	29.3	117*	25	28.5	114	3	74-114/7
95-50-1	o-Dichlorobenzene	ND		25	26.7	107	25	25.9	104	3	73-114/8
106-46-7	p-Dichlorobenzene	ND		25	27.3	109	25	26.7	107	2	74-112/7
156-60-5	trans-1,2-Dichloroethylene	ND		25	26.2	105	25	25.7	103	2	70-127/11
10061-02-6	trans-1,3-Dichloropropene	ND		25	28.3	113	25	27.6	110	3	59-116/11
100-41-4	Ethylbenzene	58.1		25	87.2	116	25	86.4	113	1	73-119/8
97-63-2	Ethyl methacrylate	ND		25	27.3	109	25	26.5	106	3	50-150/30 [a]
76-13-1	Freon 113	ND		25	27.6	110	25	25.6	102	8	67-151/14
591-78-6	2-Hexanone	ND		125	155	124	125	143	114	8	54-131/11
87-68-3	Hexachlorobutadiene	ND		25	28.0	112	25	26.8	107	4	52-133/13
110-54-3	Hexane	ND		25	27.9	112	25	26.6	106	5	62-153/12
98-82-8	Isopropylbenzene	15.0		25	43.4	114	25	42.3	109	3	79-127/8
99-87-6	p-Isopropyltoluene	8.5		25	37.2	115	25	36.3	111	2	77-126/8
108-10-1	4-Methyl-2-pentanone	ND		125	155	124	125	144	115	7	57-136/11
126-98-7	Methacrylonitrile	ND		250	208	83	250	200	80	4	50-150/30 [a]
74-83-9	Methyl bromide	ND		25	24.4	98	25	23.9	96	2	52-172/16
74-87-3	Methyl chloride	ND		25	31.1	124	25	29.4	118	6	53-155/19
74-88-4	Methyl iodide	ND		25	26.2	105	25	25.2	101	4	52-141/12
80-62-6	Methyl methacrylate	ND		25	23.6	94	25	21.9	88	7	76-115/11
74-95-3	Methylene bromide	ND		25	26.6	106	25	25.6	102	4	73-115/9
75-09-2	Methylene chloride	ND		25	25.4	102	25	24.7	99	3	61-129/11
78-93-3	Methyl ethyl ketone	ND		125	136	109	125	126	101	8	51-128/10
1634-04-4	Methyl Tert Butyl Ether	ND		25	28.2	113	25	27.2	109	4	61-129/9
91-20-3	Naphthalene	177	E	25	203	104	25	170	-28* [b]	18*	52-127/13
76-01-7	Pentachloroethane	ND		25	27.6	110	25	26.6	106	4	50-150/30 [a]
107-12-0	Propionitrile	ND		250	235	94	250	217	87	8	50-150/30 [a]
103-65-1	n-Propylbenzene	14.4		25	42.4	112	25	40.7	105	4	73-123/10
100-42-5	Styrene	ND		25	26.3	105	25	25.3	101	4	64-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	27.1	108	25	26.6	106	2	69-118/8
71-55-6	1,1,1-Trichloroethane	ND		25	28.7	115	25	27.5	110	4	72-133/8
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	25.7	103	25	24.9	100	3	64-120/10
79-00-5	1,1,2-Trichloroethane	ND		25	44.6	178*	25	28.0	112	46*	72-116/9
87-61-6	1,2,3-Trichlorobenzene	ND		25	19.8	79	25	15.1	60	27*	58-121/12
96-18-4	1,2,3-Trichloropropane	ND		25	28.7	115	25	28.3	113	1	63-116/13
120-82-1	1,2,4-Trichlorobenzene	ND		25	27.3	109	25	25.1	100	8	58-120/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F45800-1MS	J026648.D	1	12/13/06	JG	n/a	n/a	VJ1098
F45800-1MSD	J026649.D	1	12/13/06	JG	n/a	n/a	VJ1098
F45800-1	J026647.D	1	12/13/06	JG	n/a	n/a	VJ1098

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45658-1, F45658-2

CAS No.	Compound	F45800-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	186	E	25	211	100	25	206	80	2	68-122/10
108-67-8	1,3,5-Trimethylbenzene	66.7		25	92.3	102	25	90.2	94	2	70-125/9
127-18-4	Tetrachloroethylene	ND		25	28.2	113	25	27.1	108	4	70-126/9
108-88-3	Toluene	31.0		25	62.2	125*	25	60.7	119	2	67-123/8
79-01-6	Trichloroethylene	ND		25	25.4	102	25	24.7	99	3	73-117/10
75-69-4	Trichlorofluoromethane	ND		25	26.3	105	25	25.7	103	2	52-164/16
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		25	31.4	126	25	28.4	114	10	27-131/22
75-01-4	Vinyl chloride	ND		25	24.1	96	25	21.9	88	10	63-161/18
108-05-4	Vinyl Acetate	ND		125	126	101	125	120	96	5	37-154/10
	m,p-Xylene	216	E	50	288	144* [b]	50	282	132* [b]	2	74-123/7
95-47-6	o-Xylene	144	E	25	180	144* [b]	25	177	132* [b]	2	68-123/7

CAS No.	Surrogate Recoveries	MS	MSD	F45800-1	Limits
1868-53-7	Dibromofluoromethane	106%	105%	111%	86-115%
17060-07-0	1,2-Dichloroethane-D4	113%	110%	112%	73-126%
2037-26-5	Toluene-D8	106%	106%	99%	86-112%
460-00-4	4-Bromofluorobenzene	118%	116%	118%	83-119%

(a) Advisory control limits.
(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F45873-22MS	M0016841.D	10	12/15/06	CS	n/a	n/a	VM698
F45873-22MSD	M0016842.D	10	12/15/06	CS	n/a	n/a	VM698
F45873-22	M0016836.D	10	12/15/06	CS	n/a	n/a	VM698

The QC reported here applies to the following samples: **Method:** SW846 8260B

F45658-1

CAS No.	Compound	F45873-22 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
107-06-2	1,2-Dichloroethane	10	U	250	241	96	250	240	96	0	64-124/7
78-87-5	1,2-Dichloropropane	10	U	250	253	101	250	246	98	3	74-123/8

CAS No.	Surrogate Recoveries	MS	MSD	F45873-22	Limits
1868-53-7	Dibromofluoromethane	95%	94%	95%	86-115%
17060-07-0	1,2-Dichloroethane-D4	98%	98%	94%	73-126%
2037-26-5	Toluene-D8	105%	104%	105%	86-112%
460-00-4	4-Bromofluorobenzene	102%	104%	103%	83-119%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18780-MB	L035220.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45658-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
92-87-5	Benzidine	ND	25	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	4.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18780-MB	L035220.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45658-1

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	10	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	10	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	36%	19-90%
4165-62-2	Phenol-d5	22%	10-68%

Method Blank Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18780-MB	L035220.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45658-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	70%	36-137%
4165-60-0	Nitrobenzene-d5	66%	49-119%
321-60-8	2-Fluorobiphenyl	67%	45-118%
1718-51-0	Terphenyl-d14	89%	46-135%

Blank Spike Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18780-BS	L035219.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45658-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	13.9	14	10-50
95-57-8	2-Chlorophenol	50	34.3	69	57-100
59-50-7	4-Chloro-3-methyl phenol	50	39.2	78	63-105
120-83-2	2,4-Dichlorophenol	50	38.8	78	65-106
105-67-9	2,4-Dimethylphenol	50	31.9	64	49-90
51-28-5	2,4-Dinitrophenol	100	81.5	82	26-125
534-52-1	4,6-Dinitro-o-cresol	100	102	102	56-121
95-48-7	2-Methylphenol	50	30.4	61	48-90
	3&4-Methylphenol	100	56.8	57	43-94
88-75-5	2-Nitrophenol	50	38.8	78	62-107
100-02-7	4-Nitrophenol	100	33.5	34	19-66
87-86-5	Pentachlorophenol	100	91.1	91	62-120
108-95-2	Phenol	50	15.5	31	20-65
95-95-4	2,4,5-Trichlorophenol	50	41.3	83	67-103
88-06-2	2,4,6-Trichlorophenol	50	40.1	80	68-104
83-32-9	Acenaphthene	50	40.2	80	67-101
208-96-8	Acenaphthylene	50	41.0	82	65-100
120-12-7	Anthracene	50	44.0	88	71-103
92-87-5	Benzidine	50	24.3	49	21-101
56-55-3	Benzo(a)anthracene	50	45.2	90	71-105
50-32-8	Benzo(a)pyrene	50	44.6	89	67-106
205-99-2	Benzo(b)fluoranthene	50	46.2	92	68-108
191-24-2	Benzo(g,h,i)perylene	50	44.3	89	65-110
207-08-9	Benzo(k)fluoranthene	50	45.5	91	69-110
101-55-3	4-Bromophenyl phenyl ether	50	42.6	85	71-106
85-68-7	Butyl benzyl phthalate	50	46.9	94	66-110
100-51-6	Benzyl Alcohol	50	31.3	63	36-101
91-58-7	2-Chloronaphthalene	50	38.1	76	62-99
106-47-8	4-Chloroaniline	50	36.9	74	58-101
218-01-9	Chrysene	50	45.0	90	71-105
111-91-1	bis(2-Chloroethoxy)methane	50	36.0	72	56-101
111-44-4	bis(2-Chloroethyl)ether	50	39.3	79	60-108
108-60-1	bis(2-Chloroisopropyl)ether	50	33.3	67	49-108
7005-72-3	4-Chlorophenyl phenyl ether	50	41.5	83	69-106
95-50-1	1,2-Dichlorobenzene	50	33.4	67	48-98
541-73-1	1,3-Dichlorobenzene	50	32.8	66	44-95

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18780-BS	L035219.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45658-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-46-7	1,4-Dichlorobenzene	50	32.8	66	46-96
121-14-2	2,4-Dinitrotoluene	50	45.6	91	64-107
606-20-2	2,6-Dinitrotoluene	50	42.6	85	64-102
91-94-1	3,3'-Dichlorobenzidine	50	38.9	78	54-109
53-70-3	Dibenzo(a,h)anthracene	50	44.2	88	61-112
132-64-9	Dibenzofuran	50	40.5	81	70-102
84-74-2	Di-n-butyl phthalate	50	45.0	90	69-109
117-84-0	Di-n-octyl phthalate	50	45.8	92	63-125
84-66-2	Diethyl phthalate	50	42.3	85	66-111
131-11-3	Dimethyl phthalate	50	43.4	87	66-109
117-81-7	bis(2-Ethylhexyl)phthalate	50	47.7	95	66-114
206-44-0	Fluoranthene	50	46.3	93	71-108
86-73-7	Fluorene	50	41.7	83	68-102
118-74-1	Hexachlorobenzene	50	42.7	85	69-103
87-68-3	Hexachlorobutadiene	50	35.3	71	48-100
77-47-4	Hexachlorocyclopentadiene	50	28.6	57	20-85
67-72-1	Hexachloroethane	50	32.8	66	41-98
193-39-5	Indeno(1,2,3-cd)pyrene	50	45.0	90	66-112
78-59-1	Isophorone	50	41.5	83	62-105
91-57-6	2-Methylnaphthalene	50	40.0	80	62-105
88-74-4	2-Nitroaniline	50	43.4	87	66-105
99-09-2	3-Nitroaniline	50	38.9	78	56-104
100-01-6	4-Nitroaniline	50	44.6	89	62-110
91-20-3	Naphthalene	50	37.4	75	56-99
98-95-3	Nitrobenzene	50	37.8	76	60-102
621-64-7	N-Nitroso-di-n-propylamine	50	37.5	75	56-101
86-30-6	N-Nitrosodiphenylamine	50	40.7	81	69-106
85-01-8	Phenanthrene	50	44.2	88	71-104
129-00-0	Pyrene	50	45.6	91	67-108
120-82-1	1,2,4-Trichlorobenzene	50	36.2	72	52-99

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	40%	19-90%
4165-62-2	Phenol-d5	24%	10-68%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18780-BS	L035219.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45658-1

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	79%	36-137%
4165-60-0	Nitrobenzene-d5	71%	49-119%
321-60-8	2-Fluorobiphenyl	71%	45-118%
1718-51-0	Terphenyl-d14	85%	46-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18780-MS	L035224.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804
OP18780-MSD	L035225.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804
F45717-1	L035223.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45658-1

CAS No.	Compound	F45717-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		192	35.0	18	192	72.6	38	70*	10-80/45
95-57-8	2-Chlorophenol	ND		96.2	60.8	63	96.2	67.6	70	11	43-109/27
59-50-7	4-Chloro-3-methyl phenol	ND		96.2	70.9	74	96.2	76.0	79	7	57-109/20
120-83-2	2,4-Dichlorophenol	ND		96.2	66.7	69	96.2	69.8	73	5	49-114/23
105-67-9	2,4-Dimethylphenol	ND		96.2	54.2	56	96.2	59.9	62	10	32-103/24
51-28-5	2,4-Dinitrophenol	ND		192	133	69	192	157	82	17	20-131/28
534-52-1	4,6-Dinitro-o-cresol	ND		192	167	87	192	179	93	7	46-130/23
95-48-7	2-Methylphenol	ND		96.2	58.7	61	96.2	65.3	68	11	40-102/25
	3&4-Methylphenol	ND		192	115	60	192	125	65	8	39-97/24
88-75-5	2-Nitrophenol	ND		96.2	62.6	65	96.2	69.1	72	10	46-115/26
100-02-7	4-Nitrophenol	ND		192	94.4	49	192	95.7	50	1	28-81/30
87-86-5	Pentachlorophenol	ND		192	149	77	192	168	87	12	53-128/22
108-95-2	Phenol	ND		96.2	41.2	43	96.2	43.4	45	5	19-81/33
95-95-4	2,4,5-Trichlorophenol	ND		96.2	70.9	74	96.2	76.5	80	8	56-110/19
88-06-2	2,4,6-Trichlorophenol	ND		96.2	72.1	75	96.2	75.1	78	4	55-112/19
83-32-9	Acenaphthene	ND		96.2	70.7	74	96.2	74.3	77	5	58-109/18
208-96-8	Acenaphthylene	ND		96.2	72.2	75	96.2	78.0	81	8	59-103/18
120-12-7	Anthracene	ND		96.2	77.0	80	96.2	82.0	85	6	65-108/16
92-87-5	Benzidine	ND		96.2	ND	0*	96.2	ND	0*	nc	11-98/21
56-55-3	Benzo(a)anthracene	ND		96.2	77.5	81	96.2	82.3	86	6	68-106/17
50-32-8	Benzo(a)pyrene	ND		96.2	76.4	79	96.2	82.5	86	8	61-108/18
205-99-2	Benzo(b)fluoranthene	ND		96.2	76.1	79	96.2	82.0	85	7	65-109/18
191-24-2	Benzo(g,h,i)perylene	ND		96.2	81.0	84	96.2	82.9	86	2	60-114/19
207-08-9	Benzo(k)fluoranthene	ND		96.2	78.5	82	96.2	84.5	88	7	66-111/17
101-55-3	4-Bromophenyl phenyl ether	ND		96.2	72.7	76	96.2	77.8	81	7	68-108/17
85-68-7	Butyl benzyl phthalate	ND		96.2	80.0	83	96.2	85.9	89	7	64-111/18
100-51-6	Benzyl Alcohol	ND		96.2	62.3	65	96.2	66.7	69	7	44-105/26
91-58-7	2-Chloronaphthalene	ND		96.2	67.8	71	96.2	71.1	74	5	57-102/20
106-47-8	4-Chloroaniline	ND		96.2	60.6	63	96.2	62.0	64	2	37-106/27
218-01-9	Chrysene	ND		96.2	77.6	81	96.2	82.7	86	6	69-106/17
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	60.6	63	96.2	64.4	67	6	46-106/24
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	65.3	68	96.2	70.2	73	7	48-114/28
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	55.7	58	96.2	62.5	65	12	43-110/26
7005-72-3	4-Chlorophenyl phenyl ether	ND		96.2	71.7	75	96.2	77.6	81	8	66-107/17
95-50-1	1,2-Dichlorobenzene	ND		96.2	57.5	60	96.2	65.3	68	13	45-103/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	55.6	58	96.2	65.1	68	16	42-100/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18780-MS	L035224.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804
OP18780-MSD	L035225.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804
F45717-1	L035223.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45658-1

CAS No.	Compound	F45717-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		96.2	56.8	59	96.2	64.8	67	13	43-102/24
121-14-2	2,4-Dinitrotoluene	ND		96.2	75.4	78	96.2	82.8	86	9	60-108/18
606-20-2	2,6-Dinitrotoluene	ND		96.2	71.2	74	96.2	79.7	83	11	59-105/18
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	62.8	65	96.2	65.3	68	4	21-120/24
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	80.1	83	96.2	81.2	84	1	59-112/18
132-64-9	Dibenzofuran	ND		96.2	71.4	74	96.2	75.3	78	5	65-105/17
84-74-2	Di-n-butyl phthalate	ND		96.2	77.5	81	96.2	80.2	83	3	68-109/18
117-84-0	Di-n-octyl phthalate	ND		96.2	74.6	78	96.2	81.7	85	9	59-127/23
84-66-2	Diethyl phthalate	ND		96.2	72.2	75	96.2	77.4	80	7	64-111/18
131-11-3	Dimethyl phthalate	ND		96.2	74.5	77	96.2	81.1	84	8	63-109/17
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	83.9	87	96.2	85.8	89	2	58-119/21
206-44-0	Fluoranthene	ND		96.2	80.1	83	96.2	83.2	87	4	68-110/18
86-73-7	Fluorene	ND		96.2	74.1	77	96.2	79.3	82	7	62-106/17
118-74-1	Hexachlorobenzene	ND		96.2	72.7	76	96.2	77.9	81	7	66-106/16
87-68-3	Hexachlorobutadiene	ND		96.2	60.2	63	96.2	65.7	68	9	46-107/26
77-47-4	Hexachlorocyclopentadiene	ND		96.2	48.6	51	96.2	55.2	57	13	16-84/31
67-72-1	Hexachloroethane	ND		96.2	57.0	59	96.2	62.7	65	10	39-105/25
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	81.1	84	96.2	84.0	87	4	61-115/19
78-59-1	Isophorone	ND		96.2	71.0	74	96.2	76.0	79	7	54-107/22
91-57-6	2-Methylnaphthalene	ND		96.2	67.9	71	96.2	74.0	77	9	53-112/22
88-74-4	2-Nitroaniline	ND		96.2	73.3	76	96.2	79.6	83	8	60-108/18
99-09-2	3-Nitroaniline	ND		96.2	66.3	69	96.2	67.5	70	2	43-103/23
100-01-6	4-Nitroaniline	ND		96.2	73.0	76	96.2	79.1	82	8	55-110/19
91-20-3	Naphthalene	ND		96.2	63.4	66	96.2	68.4	71	8	49-104/24
98-95-3	Nitrobenzene	ND		96.2	64.3	67	96.2	70.2	73	9	50-107/25
621-64-7	N-Nitroso-di-n-propylamine	ND		96.2	65.7	68	96.2	70.1	73	6	47-104/23
86-30-6	N-Nitrosodiphenylamine	ND		96.2	70.9	74	96.2	75.7	79	7	63-110/17
85-01-8	Phenanthrene	ND		96.2	76.2	79	96.2	80.5	84	5	67-108/17
129-00-0	Pyrene	ND		96.2	77.4	80	96.2	84.0	87	8	65-108/18
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	60.1	63	96.2	68.4	71	13	49-104/25

CAS No.	Surrogate Recoveries	MS	MSD	F45717-1	Limits
367-12-4	2-Fluorophenol	47%	53%	37%	19-90%
4165-62-2	Phenol-d5	37%	39%	22%	10-68%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18780-MS	L035224.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804
OP18780-MSD	L035225.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804
F45717-1	L035223.D	1	12/12/06	NJ	12/08/06	OP18780	SL1804

The QC reported here applies to the following samples: **Method:** SW846 8270C

F45658-1

CAS No.	Surrogate Recoveries	MS	MSD	F45717-1	Limits
118-79-6	2,4,6-Tribromophenol	70%	75%	75%	36-137%
4165-60-0	Nitrobenzene-d5	62%	67%	68%	49-119%
321-60-8	2-Fluorobiphenyl	65%	69%	70%	45-118%
1718-51-0	Terphenyl-d14	70%	75%	74%	46-135%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18785-MB	TT04405.D	1	12/18/06	KL	12/08/06	OP18785	GTT149

The QC reported here applies to the following samples: **Method:** SW846 8081A

F45658-1

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.050	0.020	ug/l	
319-84-6	alpha-BHC	ND	0.050	0.015	ug/l	
319-85-7	beta-BHC	ND	0.050	0.020	ug/l	
319-86-8	delta-BHC	ND	0.050	0.020	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.050	0.015	ug/l	
5103-71-9	alpha-Chlordane	ND	0.050	0.015	ug/l	
5103-74-2	gamma-Chlordane	ND	0.050	0.015	ug/l	
60-57-1	Dieldrin	ND	0.050	0.015	ug/l	
72-54-8	4,4'-DDD	ND	0.10	0.020	ug/l	
72-55-9	4,4'-DDE	ND	0.10	0.020	ug/l	
50-29-3	4,4'-DDT	ND	0.10	0.020	ug/l	
72-20-8	Endrin	ND	0.10	0.040	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.10	0.020	ug/l	
7421-93-4	Endrin aldehyde	ND	0.10	0.040	ug/l	
53494-70-5	Endrin ketone	ND	0.10	0.020	ug/l	
959-98-8	Endosulfan-I	ND	0.050	0.015	ug/l	
33213-65-9	Endosulfan-II	ND	0.10	0.020	ug/l	
76-44-8	Heptachlor	ND	0.050	0.020	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.050	0.015	ug/l	
72-43-5	Methoxychlor	ND	0.10	0.040	ug/l	
8001-35-2	Toxaphene	ND	2.5	1.3	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	89%	60-138%
2051-24-3	Decachlorobiphenyl	86%	31-148%

Blank Spike Summary

Job Number: F45658
Account: BHATNM Bhate Environmental Associates, Inc.
Project: HOLMN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18785-BS [a]	TT04404.D	1	12/18/06	KL	12/08/06	OP18785	GTT149

The QC reported here applies to the following samples: **Method:** SW846 8081A

F45658-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.5	0.44	88	70-127
319-84-6	alpha-BHC	0.5	0.50	100	65-136
319-85-7	beta-BHC	0.5	0.48	96	68-133
319-86-8	delta-BHC	0.5	0.27	54	48-126
58-89-9	gamma-BHC (Lindane)	0.5	0.51	102	69-137
5103-71-9	alpha-Chlordane	0.5	0.50	100	74-127
5103-74-2	gamma-Chlordane	0.5	0.52	104	75-130
60-57-1	Dieldrin	0.5	0.51	102	76-131
72-54-8	4,4'-DDD	0.5	0.50	100	76-140
72-55-9	4,4'-DDE	0.5	0.52	104	73-137
50-29-3	4,4'-DDT	0.5	0.53	106	74-134
72-20-8	Endrin	0.5	0.54	108	78-134
1031-07-8	Endosulfan sulfate	0.5	0.45	90	73-127
7421-93-4	Endrin aldehyde	0.5	0.059	12	5-104
53494-70-5	Endrin ketone	0.5	0.48	96	80-128
959-98-8	Endosulfan-I	0.5	0.49	98	76-128
33213-65-9	Endosulfan-II	0.5	0.51	102	77-131
76-44-8	Heptachlor	0.5	0.55	110	62-137
1024-57-3	Heptachlor epoxide	0.5	0.49	98	74-130
72-43-5	Methoxychlor	0.5	0.50	100	77-131

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	90%	60-138%
2051-24-3	Decachlorobiphenyl	86%	31-148%

(a) Insufficient sample for MS/MSD.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F45658
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10803
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 12/06/06

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.08	.1	-0.045	<1.0

Associated samples MP10803: F45658-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F45658
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10803
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 12/06/06 12/06/06

Metal	F45653-18 Original	DUP	RPD	QC Limits	F45653-18 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	2.9	3	96.7	80-120

Associated samples MP10803: F45658-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F45658
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10803
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 12/06/06

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	2.9	3	96.7	80-120

Associated samples MP10803: F45658-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.3

9

SERIAL DILUTION RESULTS SUMMARY

Login Number: F45658
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10803
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 12/06/06

Metal	F45653-18 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-

Associated samples MP10803: F45658-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.4

9

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F45658
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10806
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/06/06

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	18	18		
Antimony	6.0	3.4	3.4		
Arsenic	10	2.8	2.8	-0.54	<10
Barium	200	5	5	-0.090	<200
Beryllium	4.0	1	1		
Cadmium	5.0	1	1	-0.15	<5.0
Calcium	1000	42	42		
Chromium	10	.6	.6	-0.12	<10
Cobalt	50	1	1		
Copper	25	.9	1		
Iron	300	12	15		
Lead	5.0	1.7	1.7	0.67	<5.0
Magnesium	5000	4.3	4.3		
Manganese	15	.6	1.5		
Molybdenum	50	1.3	1.6		
Nickel	40	1	1		
Potassium	10000	10	100		
Selenium	10	2	2.8	-0.48	<10
Silver	10	.9	.9	0.060	<10
Sodium	10000	500	500		
Thallium	20	2.3	2.9		
Tin	50	3.1	3.8		
Vanadium	50	.6	1.1		
Zinc	20	1.3	1.6		

Associated samples MP10806: F45658-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F45658
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10806
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			12/06/06					12/06/06	
Metal	F45653-18 Original	DUP	RPD	QC Limits	F45653-18 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	0.0	0.0	NC	0-20	0.0	2010	2000	100.5	80-120
Barium	5.4	5.3	1.9	0-20	5.4	2070	2000	103.2	80-120
Beryllium	anr								
Cadmium	0.0	0.0	NC	0-20	0.0	50.2	50	100.4	80-120
Calcium	anr								
Chromium	6.7	7.0	4.4	0-20	6.7	213	200	103.2	80-120
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	4.5	4.5	0.0	0-20	4.5	499	500	98.9	80-120
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	0.0	0.0	NC	0-20	0.0	1940	2000	97.0	80-120
Silver	0.0	0.0	NC	0-20	0.0	50.2	50	100.4	80-120
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

Associated samples MP10806: F45658-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F45658
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10806
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/06/06

Metal	F45653-18 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	0.0	2010	2000	100.5	0.0	20
Barium	5.4	2070	2000	103.2	0.0	20
Beryllium	anr					
Cadmium	0.0	50.2	50	100.4	0.0	20
Calcium	anr					
Chromium	6.7	212	200	102.7	0.5	20
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	4.5	498	500	98.7	0.2	20
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	0.0	1930	2000	96.5	0.5	20
Silver	0.0	50.1	50	100.2	0.2	20
Sodium	anr					
Thallium	anr					
Tin						
Vanadium	anr					
Zinc	anr					

Associated samples MP10806: F45658-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F45658
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10806
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/06/06

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	2040	2000	102.0	80-120
Barium	2080	2000	104.0	80-120
Beryllium	anr			
Cadmium	51.0	50	102.0	80-120
Calcium	anr			
Chromium	207	200	103.5	80-120
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	498	500	99.6	80-120
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	1970	2000	98.5	80-120
Silver	50.5	50	101.0	80-120
Sodium	anr			
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP10806: F45658-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F45658
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

QC Batch ID: MP10806
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/06/06

Metal	F45653-18 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	5.43	0.00	100.0(a)	0-10
Beryllium	anr			
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	6.73	7.82	16.2 (a)	0-10
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	4.49	0.00	100.0(a)	0-10
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP10806: F45658-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Southeast ACCUTEST LABORATORIES

11/10/14

Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

PROJECT #9050361.01.04

Accutest Job Number: F45658R

Sampling Date: 12/01/06

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **14**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Jean Dent-Smith 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 (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Accutest LabLink@155481 15:34 10-Nov-2014

Sample Summary

Bhate Environmental Associates, Inc.

Job No: F45658R

HOLMN
Project No: PROJECT #9050361.01.04

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F45658-1R	12/01/06	12:30	TL	12/02/06	AQ	Ground Water	SD08-MW08-07

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Bhate Environmental Associates, Inc. **Job No:** F45658R

Site: HOLMN **Report Date** 12/21/2006 1:50:24

1 Sample was collected on 12/01/2006 and received at Accutest on 12/02/2006 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of F45658R. 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.

Wet Chemistry By Method EPA 160.1

Matrix: AQ **Batch ID:** GN23342

All method blanks for this batch meet method specific criteria.

Sample(s) F45658-1RDUP were used as the QC samples for Solids, Total Dissolved.

The following samples were run outside of holding time for method EPA 160.1: F45658-1R

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: December 21, 2006

Svetlana Izosimova, QAO (signature on file)

Summary of Hits

Job Number: F45658R
Account: Bhate Environmental Associates, Inc.
Project: HOLMN
Collected: 12/01/06

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F45658-1R	**SD08-MW08-07**					
Solids, Total Dissolved [a]		4070	100	10	mg/l	EPA 160.1

(a) analyzed out of hold at client's request

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD08-MW08-07		
Lab Sample ID:	F45658-1R	**Date Sampled:**	12/01/06
Matrix:	AQ - Ground Water	**Date Received:**	12/02/06
		Percent Solids:	n/a
Project:	HOLMN		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved [a]	4070	100	10	mg/l	1	12/15/06 15:05	LE	EPA 160.1

(a) analyzed out of hold at client's request

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F45658

BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

Page 1 of 1

Project Number 9050361.01.04

P.O. NA

Chain of Custody Number [1]:12120061

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: T Lucero

Sample Analysis Requested [5]: VOC 8260; SVOC 8270; Pest 8081; RCRA Metals 6010/7470

Quality Assurance Samples [6]

	Field Sample ID (30 Characters Max)	BRPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	# containers of constituents	VOC 8260	SVOC 8270	Pest 8081	RCRA Metals 6010/7470					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Code [2]
1	SD08-MW08-07	SD08-MW08-7	01/12/06	1230	0' 0'	N	1	WG	8	[1]	[1]	[1]	[1]								1
2	Trip Blank	Field QC	01/12/06	1230		TB		WQ	1	[1]											1

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 Email Results to rrenvironmental@zlanet.com;keying@zlanet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.		12-1-2006	1600	FX	12/02/06	
2.				George Bond		0700
3.	FX					

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FEDEX Airbill Number:

Analytical Lab: Accutest Lab Delivery Location: Orlando FL

Lab Recipient: Delivery Date/Time:

1) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-a) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3) Sample Number Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4) Matrix Codes: OS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SD = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5) Sample Analysis Requested Analytical method requested and number of containers provided for each

6) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 101099-01 in the Equipment Blank Lot Control

3.4

5.1

5

F45658R: Chain of Custody

Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F45658 CLIENT: BHATC PROJECT: SD 08

DATE/TIME RECEIVED: 12/02/06 09:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 3.4

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8545 9102 9580

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

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

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

NUMBER OR LAB FILTERED METALS ? Ø

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 12/02/06 TECHNICIAN SIGNATURE/DATE 12-02-06 ASBD 10/03/06

5.1 5

F45658R: Chain of Custody

Page 2 of 3

ACCUTEST

Job Change Order

F45658_12/15/20

Requested Date:	12/15/2006	**Received Date:**	12/1/2006
Account Name:	Bhate Environmental Associates,	**Due Date:**	12/15/2006
Project Description:	HOLMN	**Deliverable:**	COMMBN
CSR:	TM	**TAT (Days):**	14

Sample #:	**Change:**
F45658--1	Per client please login sample for TDS

Above Changes Per: Jim Moore-BHATE **Date:** 12/15/2006

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

F45658R: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F45658R
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved	GN23342	100	<100	mg/l				

Associated Samples:
Batch GN23342: F45658-1R
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F45658R
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN23342	F45658-1R	mg/l	4070	3650	11.0	0-29%

Associated Samples:
Batch GN23342: F45658-1R
(*) Outside of QC limits

6.2
6

Southeast ACCUTEST LABORATORIES

11/10/14

Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

PROJECT #9050361.01.04

Accutest Job Number: F46213

Sampling Date: 12/27/06

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **13**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Jean Dent-Smith 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 (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Accutest LabLink@155481 15:32 10-Nov-2014

Sample Summary

Bhate Environmental Associates, Inc.

Job No: F46213

HOLMN
Project No: PROJECT #9050361.01.04

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F46213-1	12/27/06	12:00	TL	12/28/06	AQ	Ground Water	SD08-MW08-05

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Bhate Environmental Associates, Inc. **Job No:** F46213

Site: HOLMN **Report Date** 1/8/2007 10:26:49 AM

1 Sample was collected on 12/27/2006 and received at Accutest on 12/28/2006 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F46213. 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.

Wet Chemistry By Method EPA 160.1

Matrix: AQ **Batch ID:** GN23488

All method blanks for this batch meet method specific criteria.

Sample(s) F46213-1DUP were used as the QC samples for Solids, Total Dissolved.

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: January 08, 2007

Svetlana Izosimova, QAO (signature on file)

Narrative revised by:

_____ Date: March 24, 2007

Svetlana Izosimova, QAO (signature on file)

Summary of Hits

Job Number: F46213
Account: Bhate Environmental Associates, Inc.
Project: HOLMN
Collected: 12/27/06

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F46213-1	**SD08-MW08-05**					
Solids, Total Dissolved		2420	100	10	mg/l	EPA 160.1

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD08-MW08-05		
Lab Sample ID:	F46213-1	**Date Sampled:**	12/27/06
Matrix:	AQ - Ground Water	**Date Received:**	12/28/06
		Percent Solids:	n/a
Project:	HOLMN		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	2420	100	10	mg/l	1	12/28/06 14:05	LE	EPA 160.1

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F46213

BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

Page 1 of 1

Project Number 9050361.01.04

P.O. NA

Chain of Custody Number [1]:122720061

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: T Lucero

Field Sample ID (20 Characters Max)	BRPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [5]	Sample Number [1]	Sample Matrix [4]	Number of Containers	TDS								Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested [5]									Quality Assurance Samples [6]			
SD08-MW08-05	SD08-MW08-05	27/12/2006	1200	0' 0'	N	1	WG	1	1											1

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 Email Results to rrenvironmental@zlanet.com;keving@zlanet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	12-27-2006	1600	1. Ex		
2.			2.		
3. Ex			3. J. Cooper	12-28-06	0900

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FEDEX

Analytical Lab: Accutest Lab

Lab Recipient:

Shipped No.:

Airbill Number:

Delivery Location: Orlando FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-a) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, If sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: CS = Soil Clay, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

2.8

5.1

5

F46213: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES

F46213

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F46213 CLIENT: BHATF PROJECT: SD 08

DATE/TIME RECEIVED: 12-28-06 09:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.8

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8530 7647 5890

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? ϕ

NUMBER OF 5035 FIELD KITS ? ϕ

NUMBER OR LAB FILTERED METALS ? ϕ

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JC 12-28-06 TECHNICIAN SIGNATURE/DATE ASBD 10/03/06

F46213: Chain of Custody

Page 2 of 2

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F46213
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved	GN23488	100	<100	mg/l				

Associated Samples:
Batch GN23488: F46213-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F46213
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN23488	F46213-1	mg/l	2420	2460	1.6	0-29%

Associated Samples:
Batch GN23488: F46213-1
(*) Outside of QC limits

6.2
6

Southeast ACCUTEST LABORATORIES

11/10/14

Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

PROJECT #9050361.01.04

Accutest Job Number: F46825

Sampling Date: 01/25/07

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **15**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Jean Dent-Smith 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 (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

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 LabLink@155481 15:33 10-Nov-2014

Sample Summary

Bhate Environmental Associates, Inc.

Job No: F46825

HOLMN
Project No: PROJECT #9050361.01.04

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F46825-1	01/25/07	12:00	TL	01/26/07	AQ	Ground Water	SD08-MW08-08
F46825-2	01/25/07	13:00	TL	01/26/07	AQ	Ground Water	S10-MW-01

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Bhate Environmental Associates, Inc. **Job No:** F46825

Site: HOLMN **Report Date** 2/6/2007 9:42:27 AM

2 Samples were collected on 01/25/2007 and received at Accutest on 01/26/2007 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F46825. 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.

Wet Chemistry By Method EPA 160.1

Matrix: AQ **Batch ID:** GN23842

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F46825-1DUP were used as the QC samples for Solids, Total Dissolved.

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: February 06, 2007

Svetlana Izosimova, QAO (signature on file)

Summary of Hits

Job Number: F46825
Account: Bhate Environmental Associates, Inc.
Project: HOLMN
Collected: 01/25/07

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F46825-1	**SD08-MW08-08**					
Solids, Total Dissolved [a]		17200	100	10	mg/l	EPA 160.1
F46825-2	**S10-MW-01**					
Solids, Total Dissolved [a]		8410	100	10	mg/l	EPA 160.1

(a) Confirmed by reanalysis.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD08-MW08-08		
Lab Sample ID:	F46825-1	**Date Sampled:**	01/25/07
Matrix:	AQ - Ground Water	**Date Received:**	01/26/07
		Percent Solids:	n/a
Project:	HOLMN		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved [a]	17200	100	10	mg/l	1	01/31/07 11:15	LE	EPA 160.1

(a) Confirmed by reanalysis.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	S10-MW-01		
Lab Sample ID:	F46825-2	**Date Sampled:**	01/25/07
Matrix:	AQ - Ground Water	**Date Received:**	01/26/07
		Percent Solids:	n/a
Project:	HOLMN		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved [a]	8410	100	10	mg/l	1	01/31/07 11:15	LE	EPA 160.1

(a) Confirmed by reanalysis.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F46825

BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

Page 1 of 1

Project Number 9050361.01.04

P.O. NA

Chain of Custody Number [1]:12520072

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: T Lucero

Sample Analysis Requested [5]

Quality Assurance Samples [6]

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)		SA Code [2]	Sample Number [3]	Sample Matrix [4]	Number of Containers	TDS								Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Code: FD
1	SD08-MW08-07	SD08	25/1/2007	1200	0'	0'	N	1	WG	1	TD											2
2	S10-MW-01	SD08	25/1/2007	1300	0'	0'	N	1	WG	1	TD											2

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 Email Results to rrenvironmental@planet.com;keving@planet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	1-25-2007	1600	[signature]		
2.						
3.				[signature]	01-26-07	09:00

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FEDEX Airbill Number:

Analytical Lab: Accutest Lab Delivery Location: Orlando FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-a) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number. Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes. GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc.) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

2.6

5.1

5

F46825: Chain of Custody

Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F46825 CLIENT: BMATE PROJECT: 9050361.01.04

DATE/TIME RECEIVED: 01-26-07 09:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2 6

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8530 7647 5845

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [x] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

NUMBER OR LAB FILTERED METALS ? Ø

SUMMARY OF COMMENTS: RECEIVED ONLY ONE TDS AMBER PER SAMPLE

TECHNICIAN SIGNATURE/DATE [signature] 01-26-07 TECHNICIAN SIGNATURE/DATE [signature] ASBD 10/03/06

5.1 5

F46825: Chain of Custody
Page 2 of 3

F46825

BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

Page 1 of 1

Project Number 9050361.01.04

P.O. NA

Chain of Custody Number [1]: 12520072

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: T Lucero

Field Sample ID (30 Characters Max)	ERPIMS LOCID (18 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)		SA Code [2]	Sample Number [3]	Sample Matrix [4]	Number of Containers	TIS								Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Code ID
									Sample Analysis Requested [5]									Quality Assurance Samples [6]			
SD08-MW08-08	SD08	25/1/2007	1200	0'	0'	N	1	WG	1	TG											2
S10-MW-01	SD08	25/1/2007	1300	0'	0'	N	1	WG	1	TG											2

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 Email Results to rrenvironmental@zianet.com;keying@zianet.com;mdaubes@bhate.com

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.		1-25-2007	1600	1.		
2.				2.		
3.				3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	FEDEX	Airbill Number:	
Analytical Lab:	Accutest Lab	Delivery Location:	Orlando FL
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-t) Sample, FD = Field Duplicate (-d) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-e) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-a)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SD = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 101099001 in the Equipment Blank Lot Control

F46825: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F46825
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved	GN23842	100	<100	mg/l				

Associated Samples:
Batch GN23842: F46825-1, F46825-2
(*) Outside of QC limits

6.1
6

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F46825
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN23842	F46825-1	mg/l	17200	16700	2.8	0-30%

Associated Samples:
Batch GN23842: F46825-1, F46825-2
(*) Outside of QC limits

6.2
6

Southeast ACCUTEST LABORATORIES

11/10/14

Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

PROJECT #9050361.01.04

Accutest Job Number: F46838

Sampling Date: 01/26/07

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **13**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Jean Dent-Smith 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 (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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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 LabLink@155481 15:34 10-Nov-2014

Sample Summary

Bhate Environmental Associates, Inc.

Job No: F46838

HOLMN
Project No: PROJECT #9050361.01.04

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F46838-1	01/26/07	09:00	TL	01/27/07	AQ	Ground Water	SD08-MW-01

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Bhate Environmental Associates, Inc. **Job No:** F46838

Site: HOLMN **Report Date** 2/6/2007 9:47:33 AM

1 Sample was collected on 01/26/2007 and received at Accutest on 01/27/2007 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of F46838. 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.

Wet Chemistry By Method EPA 160.1

Matrix: AQ **Batch ID:** GN23842

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F46825-1DUP were used as the QC samples for Solids, Total Dissolved.

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: February 06, 2007

Svetlana Izosimova, QAO (signature on file)

Summary of Hits

Job Number: F46838
Account: Bhate Environmental Associates, Inc.
Project: HOLMN
Collected: 01/26/07

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F46838-1	**SD08-MW-01**					
Solids, Total Dissolved		11500	100	10	mg/l	EPA 160.1

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD08-MW-01		
Lab Sample ID:	F46838-1	**Date Sampled:**	01/26/07
Matrix:	AQ - Ground Water	**Date Received:**	01/27/07
		Percent Solids:	n/a
Project:	HOLMN		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	11500	100	10	mg/l	1	01/31/07 11:15	LE	EPA 160.1

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F46838

BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

Page 1 of 1

Project Number 9050361.01.04

P.0. NA

Chain of Custody Number [1]:12620071

LIMS Number: NA

Facility/Basc I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: T Lucero

Field Sample ID (10 Character Max)	ERPIMS LOCID (15 Character Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Sample Analysis Requested [5]: number of containers	TDS								Quality Assurance Samples [6]: Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
SD08-MW-01	SD08	26/1/2007	0900	0' 0'	N	1	WG	1	EI											1

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 Email Results to rrenvironmental@xlanet.com;keving@xlanet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	1-26-2007	1600			
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.: _____

Method of Shipment: FEDEX Airbill Number: _____

Analytical Lab: Accutest Lab Delivery Location: Orlando FL

Lab Recipient: _____ Delivery Date/Time: _____

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-e) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 101099-01 in the Equipment Blank Lot Control

J-&

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5

F46838: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F46838 CLIENT: BHATE PROJECT: DD 08

DATE/TIME RECEIVED: 01-27-07 09:30 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.4

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8530 7647 5812

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? ϕ

NUMBER OF 5035 FIELD KITS ? ϕ

NUMBER OR LAB FILTERED METALS ? ϕ

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE VC 01-27-07 TECHNICIAN SIGNATURE/DATE ASBD 10/03/06

5.1 5

F46838: Chain of Custody

Page 2 of 2

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F46838
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved	GN23842	100	<100	mg/l				

Associated Samples:
Batch GN23842: F46838-1
(*) Outside of QC limits

6.1
6

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F46838
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN23842	F46825-1	mg/l	17200	16700	2.8	0-30%

Associated Samples:
Batch GN23842: F46838-1
(*) Outside of QC limits

6.2
6

Southeast ACCUTEST LABORATORIES

11/10/14

Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

PROJECT # 9050361.01.04

Accutest Job Number: F44851

Sampling Date: 10/27/06

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **14**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Jean Dent-Smith 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 (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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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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Section 6: General Chemistry - QC Data Summaries **12**
6.1: Method Blank and Spike Results Summary 13
6.2: Duplicate Results Summary 14

Sample Summary

Bhate Environmental Associates, Inc.

Job No: F44851

HOLMN
Project No: PROJECT # 9050361.01.04

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F44851-1	10/27/06	13:20	JM	10/31/06	SO	Soil	SD-08-SB24-3

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Bhate Environmental Associates, Inc. **Job No:** F44851

Site: HOLMN **Report Date** 11/16/2006 11:47:22

1 Sample was collected on 10/27/2006 and received at Accutest on 10/31/2006 properly preserved, at 24.2 Deg. C and intact. These Samples received an Accutest job number of F44851. 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.

Wet Chemistry By Method ASTM 1429

Matrix: ALL **Batch ID:** GN22846

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F44851-1DUP were used as the QC samples for Specific Gravity.

Wet Chemistry By Method ASTM D2937-94 M

Matrix: SO **Batch ID:** GN22848

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F44851-1DUP were used as the QC samples for Bulk Density (Dry Basis).

Wet Chemistry By Method ASTM D2974-87

Matrix: SO **Batch ID:** GN22847

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F44851-1DUP were used as the QC samples for Fractional Organic Carbon.

Wet Chemistry By Method EPA 160.3 M

Matrix: SO **Batch ID:** GN22849

Sample(s) F44892-1DUP were used as the QC samples for Solids, Percent.

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: November 16, 2006

Svetlana Izosimova, QAO (signature on file)

Summary of Hits

Job Number: F44851
Account: Bhate Environmental Associates, Inc.
Project: HOLMN
Collected: 10/27/06

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F44851-1	**SD-08-SB24-3**					
Bulk Density (Dry Basis)		1.3			g/ml	ASTM D2937-94 M
Fractional Organic Carbon		3.9			%	ASTM D2974-87
Fractional Organic Carbon		3.9			%	ASTM D2974-87
Specific Gravity		1.7				ASTM 1429

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD-08-SB24-3		
Lab Sample ID:	F44851-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	10/31/06
		Percent Solids:	82.9
Project:	HOLMN		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Bulk Density (Dry Basis)	1.3		g/ml	1	11/07/06	LE	ASTM D2937-94 M
Fractional Organic Carbon	3.9		%	1	11/16/06	LE	ASTM D2974-87
Fractional Organic Carbon	3.9		%	1	11/16/06	LE	ASTM D2974-87
Solids, Percent	82.9		%	1	11/08/06	JB	EPA 160.3 M
Specific Gravity	1.7			1	11/07/06	LE	ASTM 1429

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F44851

BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

Page 1 of 1

Project Number 9050361.01.04

P.O. NA

Chain of Custody Number [1]:103020061

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: Jim Moore

Field Sample ID (30 Character Max)	BRPIM8 LOCID (15 Character Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Sample Analysis Requested [5]: Number of containers	140.334 See Attachment	D2927 See Attachment	D1429 See Attachment	2974 See Attachment					Quality Assurance Samples [6]: Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Code ID
SD-08-SB24-3	SD-08-SB24-3	27/10/2006	1320	2' 3'	N	1	SO	1	[1]	[1]	[1]	[1]								1

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 Email Results to rrenvironmental@zlanet.com;kevlng@zlanet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	10-30-2006	1600	[signature]	10-31-06	9:00
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FEDEX Airbill Number:

Analytical Lab: Accutest Lab Delivery Location: Orlando Fl.

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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F44851: Chain of Custody

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F44851

Table 4 Soil Geotechnical Summary

Project	Site Name	Sample Location	Sample Matrix	Moisture Content by 160.3M	Dry Bulk Density by ASTM D2937	Specific Gravity by ASTM D1429	Fractional Organic Carbon Content by ASTM 2974
9050044.01.04	DP-63	SB-63-01	Soil				
		SB-63-02	Soil				
		SB-63-03	Soil				
		SB-63-04	Soil				
		SB-63-05	Soil				
9050361.01.04	SD-08	~~SB-08-21~~ (downgradient well)	Soil				
	SB-08-24	~~SB-08-22~~ (upgradient well)	Soil	2	2	2	2
		~~SB-08-23~~ (drainage pit bh)	Soil				
		~~SB-08-24~~ (drainage pit bh)	Soil				
9050361.01.01	SS-17	SS17-[redacted]SB-14	Soil				
		SS17-[redacted]SB-15	Soil				
		SS17-[redacted]SB-16	Soil				
		SS17-[redacted]SB-17	Soil				
		SS17-[redacted]SB-18	Soil				
		SS17-[redacted]SB-19	Soil				
		SS17-[redacted]SB-20	Soil				
		SS17-[redacted]SB-21	Soil				
		SS17-[redacted]SB-22	Soil				
		SS17-[redacted]SB-23	Soil				
		SS17-[redacted]SB-24	Soil				
		SS17-[redacted]SB-25	Soil				
	Total Soil Samples			2	2	2	2

5.1

5

F44851: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES
F44851

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44851 CLIENT: BHATE PROJECT: SD-08

DATE/TIME RECEIVED: 10-31-06 9:00 # OF COOLERS RECEIVED: Box COOLER TEMPS: 24.2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 858163501525

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

NUMBER OR LAB FILTERED METALS ? Ø

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE Smc 10-31-06 TECHNICIAN SIGNATURE/DATE

ASBD 10/03/06

5.1 5

F44851: Chain of Custody

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Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44851
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bulk Density (Dry Basis)	GN22848		0.0	g/ml				
Fractional Organic Carbon	GN22847		0.0	%				
Fractional Organic Carbon	GN22847		0.0	%				
Specific Gravity	GN22846		1.0					

Associated Samples:
Batch GN22846: F44851-1
Batch GN22847: F44851-1
Batch GN22848: F44851-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44851
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Bulk Density (Dry Basis)	GN22848	F44851-1	g/ml	1.3	1.4	0.1	0-20%
Fractional Organic Carbon	GN22847	F44851-1	%	3.9	3.9	1.0	0-42%
Fractional Organic Carbon	GN22847	F44851-1	%	3.9	3.9	1.0	0-42%
Fractional Organic Carbon	GN22847	F44851-1	%	3.9	3.9	1.0	0-42%
Fractional Organic Carbon	GN22847	F44851-1	%	3.9	3.9	1.0	0-42%
Solids, Percent	GN22849	F44892-1	%	71.6	71.2	0.6	0-30%
Specific Gravity	GN22846	F44851-1		1.7	1.7	1.4	0-20%

Associated Samples:
Batch GN22846: F44851-1
Batch GN22847: F44851-1
Batch GN22848: F44851-1
Batch GN22849: F44851-1
(*) Outside of QC limits

Southeast ACCUTEST LABORATORIES

11/10/14

Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

PROJECT #9050361.01.04

Accutest Job Number: F44882

Sampling Date: 10/27/06

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **14**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Jean Dent-Smith 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 (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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Sample Summary

Bhate Environmental Associates, Inc.

Job No: F44882

HOLMN
Project No: PROJECT #9050361.01.04

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F44882-1	10/27/06	13:30	JM	11/01/06	SO	Soil	SD-08-SB24-8

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Bhate Environmental Associates, Inc. **Job No:** F44882

Site: HOLMN **Report Date** 11/16/2006 11:48:11

1 Sample was collected on 10/27/2006 and received at Accutest on 11/01/2006 properly preserved, at 24.2 Deg. C and intact. These Samples received an Accutest job number of F44882. 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.

Wet Chemistry By Method ASTM 1429

Matrix: ALL **Batch ID:** GN22846

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F44851-1DUP were used as the QC samples for Specific Gravity.

Wet Chemistry By Method ASTM D2937-94 M

Matrix: SO **Batch ID:** GN22848

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F44851-1DUP were used as the QC samples for Bulk Density (Dry Basis).

Wet Chemistry By Method ASTM D2974-87

Matrix: SO **Batch ID:** GN22847

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F44851-1DUP were used as the QC samples for Fractional Organic Carbon.

Wet Chemistry By Method EPA 160.3 M

Matrix: SO **Batch ID:** GN22849

Sample(s) F44892-1DUP were used as the QC samples for Solids, Percent.

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: November 16, 2006

Svetlana Izosimova, QAO (signature on file)

Summary of Hits

Job Number: F44882
Account: Bhate Environmental Associates, Inc.
Project: HOLMN
Collected: 10/27/06

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F44882-1	**SD-08-SB24-8**					
Bulk Density (Dry Basis)		0.81			g/ml	ASTM D2937-94 M
Fractional Organic Carbon		3.4			%	ASTM D2974-87
Fractional Organic Carbon		3.4			%	ASTM D2974-87
Specific Gravity		1.4				ASTM 1429

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD-08-SB24-8		
Lab Sample ID:	F44882-1	**Date Sampled:**	10/27/06
Matrix:	SO - Soil	**Date Received:**	11/01/06
		Percent Solids:	86.9
Project:	HOLMN		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Bulk Density (Dry Basis)	0.81		g/ml	1	11/07/06	LE	ASTM D2937-94 M
Fractional Organic Carbon	3.4		%	1	11/16/06	LE	ASTM D2974-87
Fractional Organic Carbon	3.4		%	1	11/16/06	LE	ASTM D2974-87
Solids, Percent	86.9		%	1	11/08/06	JB	EPA 160.3 M
Specific Gravity	1.4			1	11/07/06	LE	ASTM 1429

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

BHATE

Environmental Engineers and Scientists

Chain of Custody and Analytical Request

F44882

Page 1 of 1

Project Number 9050361.01.04

P.O. NA

Chain of Custody Number [1]:103020061

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SD 08

Client Name: USACE

Collected by: Jim Moore

Field Sample ID (30 Characters Max)	BRPIM# LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Number of containers	140.385 See Attachment	D2937 See Attachment	D1425 See Attachment	2974 See Attachment					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Code: ID
								Sample Analysis Requested [5]									Quality Assurance Samples [6]			
SD-08-SB24-8	SD-08-SB24-8	27/10/2006	1330	7' 8'	N	1	SO	1	[1]	[1]	[1]	[1]								1

COMMENTS: ATTN: Sample Receiving
Accutest Laboratories
4405 Vineland Road Suite C15
Orlando, FL 32811 Email Results to rrenvironmental@zianet.com;keving@zianet.com;mdauben@bhate.com

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.		10-30-2006	1600	1.		
2.				2.		
3.				3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FEDEX Airbill Number:

Analytical Lab: Accutest Lab Delivery Location: Orlando FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SO = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

F44882: Chain of Custody
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10/20/06

Table 4 Soil Geotechnical Summary

Project	Site Name	Sample Location	Sample Matrix	Moisture Content by 160.3M	Dry Bulk Density by ASTM D2937	Specific Gravity by ASTM D1429	Fractional Organic Carbon Content by ASTM 2974
9050044.01.04	DP-63	SB-63-01	Soil				
		SB-63-02	Soil				
		SB-63-03	Soil				
		SB-63-04	Soil				
		SB-63-05	Soil				
9050361.01.04	SD-08	~~SB-08-21~~ (downgradient well)	Soil				
	SB-08-24	~~SB-08-22~~ (upgradient well)	Soil	2	2	2	2
		~~SB-08-23~~ (drainage pit bh)	Soil				
		~~SB-08-24~~ (drainage pit bh)	Soil				
9050361.01.01	SS-17	SS17-[redacted]SB-14	Soil				
		SS17-[redacted]SB-15	Soil				
		SS17-[redacted]SB-16	Soil				
		SS17-[redacted]SB-17	Soil				
		SS17-[redacted]SB-18	Soil				
		SS17-[redacted]SB-19	Soil				
		SS17-[redacted]SB-20	Soil				
		SS17-[redacted]SB-21	Soil				
		SS17-[redacted]SB-22	Soil				
		SS17-[redacted]SB-23	Soil				
		SS17-[redacted]SB-24	Soil				
		SS17-[redacted]SB-25	Soil				
	Total Soil Samples			2	2	2	2

5.1

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F44882: Chain of Custody
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ACCUTEST LABORATORIES

F44882

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44882 CLIENT: BHATE PROJECT: SD08

DATE/TIME RECEIVED: 10-31-06 9:00 # OF COOLERS RECEIVED: Box COOLER TEMPS: 24.2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

NUMBER OR LAB FILTERED METALS ? Ø

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE Smc 10-31-06 TECHNICIAN SIGNATURE/DATE ASBD 10/03/06

F44882: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44882
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bulk Density (Dry Basis)	GN22848		0.0	g/ml				
Fractional Organic Carbon	GN22847		0.0	%				
Fractional Organic Carbon	GN22847		0.0	%				
Specific Gravity	GN22846		1.0					

Associated Samples:
Batch GN22846: F44882-1
Batch GN22847: F44882-1
Batch GN22848: F44882-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44882
Account: BHATNM - Bhate Environmental Associates, Inc.
Project: HOLMN

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Bulk Density (Dry Basis)	GN22848	F44851-1	g/ml	1.3	1.4	0.1	0-20%
Fractional Organic Carbon	GN22847	F44851-1	%	3.9	3.9	1.0	0-42%
Fractional Organic Carbon	GN22847	F44851-1	%	3.9	3.9	1.0	0-42%
Fractional Organic Carbon	GN22847	F44851-1	%	3.9	3.9	1.0	0-42%
Fractional Organic Carbon	GN22847	F44851-1	%	3.9	3.9	1.0	0-42%
Solids, Percent	GN22849	F44892-1	%	71.6	71.2	0.6	0-30%
Specific Gravity	GN22846	F44851-1		1.7	1.7	1.4	0-20%

Associated Samples:
Batch GN22846: F44882-1
Batch GN22847: F44882-1
Batch GN22848: F44882-1
Batch GN22849: F44882-1
(*) Outside of QC limits

D-2

LTM Quarter 1 (Jan 2012, NationView)

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 02/07/2012

GCAL Report 212012616

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project SD-08 Qrtly GW Sampling (Q1)

CASE NARRATIVE

Client: NationView LLC **Report:** 212012616

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 473896, the LCS and/or LCSD recoveries are above the upper control limit for Bromomethane. This compound was not detected in the associated samples.

METALS

Several dissolved metals concentrations are greater than the total concentration of these metals in several samples. This is attributed to separate aliquots of sample. The dissolved aliquot was filtered in the field.

In the SW-846 6010B analysis, all 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 6010B analysis, a chemical or physical interference necessitated a dilution for sample 21201261602 (MW-08-08). This is reflected in the elevated detection limits.

In the SW-846 7470A analysis for prep batch 473683, the MS 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 for prep batch 473673, the MS recovery is not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. The Sample/Duplicate RPD for Chromium and Iron is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

In the SW-846 6010B analysis for prep batch 473688, the MS recovery is outside the control limits for Thallium. 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 89%. The MS recovery is not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration.

CONVENTIONALS

In the EPA 300.0 analysis, all samples had to be diluted in order to bracket the concentration of target analytes within the calibration range of the instrument and to eliminate a background interference. The dilutions are reflected in elevated detection limits.

In the SM 2540 C analysis, sample 21201261602 (MW-08-08) had to be diluted prior to filtration in order not to exceed the maximum residue allowed by the method.

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
Technical Director
GCAL REPORT 212012616

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261601	MW-08-06	Water	01/24/2012 15:45	01/26/2012 09:35
21201261602	MW-08-08	Water	01/25/2012 09:00	01/26/2012 09:35
21201261603	MW-08-04	Water	01/25/2012 11:30	01/26/2012 09:35
21201261604	TRIP BLANK	Water	01/25/2012 00:00	01/26/2012 09:35

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261601	**MW-08-06**	Water	01/24/2012 15:45	01/26/2012 09:35

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.10J	0.20	0.024	mg/L
7440-38-2	Arsenic	0.0085J	0.010	0.0035	mg/L
7440-39-3	Barium	0.0066J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.00088J	0.0050	0.00010	mg/L
7440-70-2	Calcium	517	0.10	0.024	mg/L
7439-89-6	Iron	0.11	0.10	0.027	mg/L
7439-95-4	Magnesium	808	0.10	0.012	mg/L
7440-09-7	Potassium	30.9	0.50	0.041	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4870	25.0	1.39	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.012	0.010	0.0035	mg/L
7440-39-3	Barium	0.0060J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0011J	0.0050	0.00010	mg/L
7440-70-2	Calcium	544	0.10	0.024	mg/L
7439-95-4	Magnesium	852	0.10	0.012	mg/L
7440-09-7	Potassium	31.3	0.50	0.041	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	5140	25.0	1.39	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	19900	10.0	7.00	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	3.09	3.00	2.58	mg/L
14797-55-8	Nitrate	19.4	15.0	2.34	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	6710	500	105	mg/L
14808-79-8	Sulfate	8170	1000	395	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261602	**MW-08-08**	Water	01/25/2012 09:00	01/26/2012 09:35

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0072J	0.020	0.0032	mg/L
7440-43-9	Cadmium	0.00071J	0.010	0.00021	mg/L
7440-70-2	Calcium	676	0.20	0.049	mg/L
7439-95-4	Magnesium	1550	0.20	0.024	mg/L
7439-96-5	Manganese	0.19	0.030	0.0017	mg/L
7440-09-7	Potassium	44.8	1.00	0.081	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	8080	25.0	1.39	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.0087J	0.12	0.0080	mg/L
7440-38-2	Arsenic	0.010J	0.020	0.0070	mg/L
7440-39-3	Barium	0.0091J	0.020	0.0032	mg/L
7440-70-2	Calcium	623	0.20	0.049	mg/L
7440-47-3	Chromium	0.00088J	0.020	0.00067	mg/L
7439-95-4	Magnesium	1330	0.20	0.024	mg/L
7439-96-5	Manganese	0.24	0.030	0.0017	mg/L
7440-09-7	Potassium	46.8	1.00	0.081	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	7100	25.0	1.39	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	33600	100	70.0	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	37.8J	50.0	7.80	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	13500	500	105	mg/L
14808-79-8	Sulfate	8900	1000	395	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261603	**MW-08-04**	Water	01/25/2012 11:30	01/26/2012 09:35

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.11J	0.20	0.024	mg/L
7440-39-3	Barium	0.0095J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.00012J	0.0050	0.00010	mg/L
7440-70-2	Calcium	460	0.10	0.024	mg/L
7440-47-3	Chromium	0.0014J	0.010	0.00034	mg/L
7440-50-8	Copper	0.0055J	0.010	0.0017	mg/L
7439-89-6	Iron	0.091J	0.10	0.027	mg/L
7439-95-4	Magnesium	255	0.10	0.012	mg/L
7439-96-5	Manganese	0.0024J	0.015	0.00083	mg/L
7440-09-7	Potassium	21.1	0.50	0.041	mg/L
7440-62-2	Vanadium	0.045	0.020	0.0012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	801	25.0	1.39	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.12J	0.20	0.024	mg/L
7440-39-3	Barium	0.010	0.010	0.0016	mg/L
7440-70-2	Calcium	498	0.10	0.024	mg/L
7440-47-3	Chromium	0.0013J	0.010	0.00034	mg/L
7440-50-8	Copper	0.0058J	0.010	0.0017	mg/L
7439-95-4	Magnesium	279	0.10	0.012	mg/L
7440-02-0	Nickel	0.0010J	0.040	0.00084	mg/L
7440-09-7	Potassium	22.1	0.50	0.041	mg/L
7440-62-2	Vanadium	0.044	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	836	25.0	1.39	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	2.26	2.00	1.72	mg/L
14797-55-8	Nitrate	4.97J	10.0	1.56	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	477	50.0	10.5	mg/L
14808-79-8	Sulfate	3550	100	39.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261603	**MW-08-04**	Water	01/25/2012 11:30	01/26/2012 09:35

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5060**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261604	**TRIP BLANK**	Water	01/25/2012 00:00	01/26/2012 09:35

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	**Acetone**	**3.24J**	**5**	**0.322**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261601	**MW-08-06**	Water	01/24/2012 15:45	01/26/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 03:10	CLH	473896

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.169U	10	0.169	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	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	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261601	**MW-08-06**	Water	01/24/2012 15:45	01/26/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 03:10	CLH	473896

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
1330-20-7	Xylene (total)	0.123U	15	0.123	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	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	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.3	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	52.3	ug/L	105	87 - 116
2037-26-5	Toluene d8	50	49.9	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.5	ug/L	105	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473683	SW-846 7470A Dissolved	1	02/06/2012 16:45	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473683	SW-846 7470A	1	02/06/2012 16:47	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261601	**MW-08-06**	Water	01/24/2012 15:45	01/26/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473673	SW-846 3010A	1	01/27/2012 16:53	CLB	473725

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.10J**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.0085J**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.0066J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.00088J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**517**	**0.10**	**0.024**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	Copper	0.0017U	0.010	0.0017	mg/L
7439-89-6	**Iron**	**0.11**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**808**	**0.10**	**0.012**	**mg/L**
7439-96-5	Manganese	0.00083U	0.015	0.00083	mg/L
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7440-09-7	**Potassium**	**30.9**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.0012U	0.020	0.0012	mg/L
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473673	SW-846 3010A	25	01/31/2012 12:59	CLB	473917

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4870**	**25.0**	**1.39**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473688	SW-846 3005 Dissolved	1	01/27/2012 15:37	CLB	473725

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.012**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.0060J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0011J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**544**	**0.10**	**0.024**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	Copper	0.0017U	0.010	0.0017	mg/L
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261601	**MW-08-06**	Water	01/24/2012 15:45	01/26/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473688	SW-846 3005 Dissolved	1	01/27/2012 15:37	CLB	473725

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	**Magnesium**	**852**	**0.10**	**0.012**	**mg/L**
7439-96-5	Manganese	0.00083U	0.015	0.00083	mg/L
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7440-09-7	**Potassium**	**31.3**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.0012U	0.020	0.0012	mg/L
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473688	SW-846 3005 Dissolved	25	01/31/2012 11:38	CLB	473917

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**5140**	**25.0**	**1.39**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/30/2012 11:00	DJH	473831

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**19900**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			30	01/26/2012 13:23	AEL	473643

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**3.09**	**3.00**	**2.58**	**mg/L**
14797-55-8	**Nitrate**	**19.4**	**15.0**	**2.34**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	01/26/2012 14:16	AEL	473643

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	5.90U	50.0	5.90	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261601	**MW-08-06**	Water	01/24/2012 15:45	01/26/2012 09:35

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	01/26/2012 19:51	AEL	473643

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**6710**	**500**	**105**	**mg/L**
14808-79-8	**Sulfate**	**8170**	**1000**	**395**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261602	**MW-08-08**	Water	01/25/2012 09:00	01/26/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 03:33	CLH	473896

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.169U	10	0.169	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	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	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261602	**MW-08-08**	Water	01/25/2012 09:00	01/26/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 03:33	CLH	473896

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
1330-20-7	Xylene (total)	0.123U	15	0.123	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	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	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	52.2	ug/L	104	87 - 116
2037-26-5	Toluene d8	50	50.2	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.6	ug/L	105	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473683	SW-846 7470A Dissolved	1	02/06/2012 16:39	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473683	SW-846 7470A	1	02/06/2012 16:38	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261602	**MW-08-08**	Water	01/25/2012 09:00	01/26/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473673	SW-846 3010A	2	01/27/2012 17:27	CLB	473725

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.40	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.12	0.0080	mg/L
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.0072J**	**0.020**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	**Cadmium**	**0.00071J**	**0.010**	**0.00021**	**mg/L**
7440-70-2	**Calcium**	**676**	**0.20**	**0.049**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	Copper	0.0034U	0.020	0.0034	mg/L
7439-89-6	Iron	0.053U	0.20	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**1550**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.19**	**0.030**	**0.0017**	**mg/L**
7440-02-0	Nickel	0.0017U	0.080	0.0017	mg/L
7440-09-7	**Potassium**	**44.8**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	Silver	0.0013U	0.020	0.0013	mg/L
7440-28-0	Thallium	0.0052U	0.040	0.0052	mg/L
7440-62-2	Vanadium	0.0025U	0.040	0.0025	mg/L
7440-66-6	Zinc	0.012U	0.040	0.012	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473673	SW-846 3010A	25	01/31/2012 13:37	CLB	473917

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**8080**	**25.0**	**1.39**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473688	SW-846 3005 Dissolved	2	01/27/2012 20:32	CLB	473725

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.40	0.047	mg/L
7440-36-0	**Antimony**	**0.0087J**	**0.12**	**0.0080**	**mg/L**
7440-38-2	**Arsenic**	**0.010J**	**0.020**	**0.0070**	**mg/L**
7440-39-3	**Barium**	**0.0091J**	**0.020**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**623**	**0.20**	**0.049**	**mg/L**
7440-47-3	**Chromium**	**0.00088J**	**0.020**	**0.00067**	**mg/L**
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	Copper	0.0034U	0.020	0.0034	mg/L
7439-89-6	Iron	0.053U	0.20	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261602	**MW-08-08**	Water	01/25/2012 09:00	01/26/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473688	SW-846 3005 Dissolved	2	01/27/2012 20:32	CLB	473725

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	**Magnesium**	**1330**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.24**	**0.030**	**0.0017**	**mg/L**
7440-02-0	Nickel	0.0017U	0.080	0.0017	mg/L
7440-09-7	**Potassium**	**46.8**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	Silver	0.0013U	0.020	0.0013	mg/L
7440-28-0	Thallium	0.0052U	0.040	0.0052	mg/L
7440-62-2	Vanadium	0.0025U	0.040	0.0025	mg/L
7440-66-6	Zinc	0.012U	0.040	0.012	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473688	SW-846 3005 Dissolved	25	01/31/2012 12:16	CLB	473917

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**7100**	**25.0**	**1.39**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	01/30/2012 11:00	DJH	473831

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**33600**	**100**	**70.0**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	01/26/2012 15:44	AEL	473643

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	8.60U	10.0	8.60	mg/L
14797-55-8	**Nitrate**	**37.8J**	**50.0**	**7.80**	**mg/L**
14797-65-0	Nitrite	5.90U	50.0	5.90	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	01/26/2012 20:44	AEL	473643

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**13500**	**500**	**105**	**mg/L**
14808-79-8	**Sulfate**	**8900**	**1000**	**395**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261603	**MW-08-04**	Water	01/25/2012 11:30	01/26/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 03:54	CLH	473896

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.169U	10	0.169	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	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	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261603	**MW-08-04**	Water	01/25/2012 11:30	01/26/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 03:54	CLH	473896

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
1330-20-7	Xylene (total)	0.123U	15	0.123	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	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	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.1	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	53.1	ug/L	106	87 - 116
2037-26-5	Toluene d8	50	50.3	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.2	ug/L	102	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473683	SW-846 7470A Dissolved	1	02/06/2012 16:52	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473683	SW-846 7470A	1	02/06/2012 16:53	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261603	**MW-08-04**	Water	01/25/2012 11:30	01/26/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473673	SW-846 3010A	1	01/27/2012 17:34	CLB	473725

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.11J**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.0035U	0.010	0.0035	mg/L
7440-39-3	**Barium**	**0.0095J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.00012J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**460**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.0014J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	**Copper**	**0.0055J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	**Iron**	**0.091J**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**255**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**0.0024J**	**0.015**	**0.00083**	**mg/L**
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7440-09-7	**Potassium**	**21.1**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.045**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473673	SW-846 3010A	25	01/31/2012 13:45	CLB	473917

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**801**	**25.0**	**1.39**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473688	SW-846 3005 Dissolved	1	01/27/2012 16:18	CLB	473725

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.12J**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.0035U	0.010	0.0035	mg/L
7440-39-3	**Barium**	**0.010**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.00010U	0.0050	0.00010	mg/L
7440-70-2	**Calcium**	**498**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.0013J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	**Copper**	**0.0058J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261603	**MW-08-04**	Water	01/25/2012 11:30	01/26/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473688	SW-846 3005 Dissolved	1	01/27/2012 16:18	CLB	473725

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	**Magnesium**	**279**	**0.10**	**0.012**	**mg/L**
7439-96-5	Manganese	0.00083U	0.015	0.00083	mg/L
7440-02-0	**Nickel**	**0.0010J**	**0.040**	**0.00084**	**mg/L**
7440-09-7	**Potassium**	**22.1**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.044**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/26/2012 16:30	473688	SW-846 3005 Dissolved	25	01/31/2012 12:24	CLB	473917

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**836**	**25.0**	**1.39**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 14:30	DJH	473955

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5060**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	01/26/2012 16:02	AEL	473643

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**2.26**	**2.00**	**1.72**	**mg/L**
14797-55-8	**Nitrate**	**4.97J**	**10.0**	**1.56**	**mg/L**
14797-65-0	Nitrite	1.18U	10.0	1.18	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	01/26/2012 21:02	AEL	473643

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**477**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**3550**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261604	**TRIP BLANK**	Water	01/25/2012 00:00	01/26/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 04:16	CLH	473896

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.169U	10	0.169	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**3.24J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201261604	**TRIP BLANK**	Water	01/25/2012 00:00	01/26/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 04:16	CLH	473896

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
1330-20-7	Xylene (total)	0.123U	15	0.123	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	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	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.2	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	52.6	ug/L	105	87 - 116
2037-26-5	Toluene d8	50	50.8	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.9	ug/L	104	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 473896		**Client ID**	MB473896			LCS473896			LCSD473896		
Prep Batch N/A		**GCAL ID**	1028971			1028972			1028973		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	01/30/2012 23:04			01/30/2012 21:38			01/30/2012 21:59		
		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	52.5	105	59 - 134	54.5	109	4	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	48.3	97	78 - 112	54.5	109	12	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	50.5	101	76 - 116	52.9	106	5	30
75-25-2	Bromoform		0.278U	0.278	50.0	50.4	101	68 - 128	54.3	109	7	30
74-83-9	Bromomethane		0.276U	0.276	50.0	66.0	132	55 - 151	77.3	**155***	16	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	49.4	99	67 - 147	48.3	97	2	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	52.4	105	74 - 139	51.1	102	3	30
75-00-3	Chloroethane		0.279U	0.279	50.0	47.5	95	54 - 166	49.9	100	5	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	99.8	100	83 - 121	102	102	2	30
67-66-3	Chloroform		0.062U	0.062	50.0	49.7	99	85 - 123	50.6	101	2	30
74-87-3	Chloromethane		0.076U	0.076	50.0	61.3	123	55 - 173	67.4	135	9	30
124-48-1	Dibromochloromethane		0.133U	0.133	50.0	49.1	98	74 - 116	52.7	105	7	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	48.4	97	81 - 116	51.8	104	7	30
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	51.2	102	34 - 158	50.5	101	1	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	50.0	100	82 - 127	50.7	101	1	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	48.4	97	76 - 122	50.3	101	4	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	48.6	97	81 - 114	49.8	100	2	30
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096	50.0	50.6	101	82 - 126	50.4	101	0.4	30
75-09-2	Methylene chloride		0.102U	0.102	50.0	47.8	96	69 - 125	49.5	99	3	30
78-87-5	1,2-Dichloropropane		0.114U	0.114	50.0	49.2	98	81 - 120	51.1	102	4	30
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105	50.0	48.5	97	83 - 119	52.0	104	7	30
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068	50.0	48.5	97	87 - 123	52.4	105	8	30
100-41-4	Ethylbenzene		0.180U	0.180	50.0	49.3	99	87 - 118	51.0	102	3	30
591-78-6	2-Hexanone		0.302U	0.302	50.0	46.0	92	58 - 125	50.1	100	9	30
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058	50.0	51.7	103	87 - 131	51.5	103	0.4	30
78-93-3	2-Butanone		0.235U	0.235	50.0	45.0	90	61 - 127	48.6	97	8	30
74-88-4	Methyl iodide		0.097U	0.097	50.0	45.0	90	72 - 125	60.7	121	30	30
108-10-1	4-Methyl-2-pentanone		0.142U	0.142	50.0	48.2	96	62 - 125	51.0	102	6	30
103-65-1	n-Propylbenzene		0.069U	0.069	50.0	49.1	98	86 - 125	50.4	101	3	30
100-42-5	Styrene		0.058U	0.058	50.0	51.0	102	78 - 118	53.7	107	5	30
127-18-4	Tetrachloroethene		0.141U	0.141	50.0	49.2	98	80 - 131	50.3	101	2	30
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150	50.0	49.5	99	81 - 119	52.9	106	7	30
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112	50.0	46.2	92	71 - 120	50.5	101	9	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 473896	**Client ID**	MB473896	LCS473896	LCSD473896
Prep Batch N/A	**GCAL ID**	1028971	1028972	1028973
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	01/30/2012 23:04	01/30/2012 21:38	01/30/2012 21:59
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	52.0	104	68 - 123	56.0	112	7	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	50.9	102	79 - 133	51.1	102	0.4	30
79-00-5	1,1,2-Trichloroethane	0.179U	0.179	50.0	47.5	95	80 - 114	51.9	104	9	30
75-69-4	Trichlorofluoromethane	0.094U	0.094	50.0	50.1	100	66 - 156	49.6	99	1	30
96-18-4	1,2,3-Trichloropropane	0.063U	0.063	50.0	45.0	90	77 - 115	48.6	97	8	30
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080	50.0	49.5	99	82 - 120	51.7	103	4	30
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053	50.0	50.1	100	83 - 123	51.9	104	4	30
75-01-4	Vinyl chloride	0.104U	0.104	50.0	55.0	110	57 - 153	55.5	111	0.9	30
95-47-6	o-Xylene	0.077U	0.077	50.0	50.1	100	83 - 121	51.7	103	3	30
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082	50.0	47.8	96	61 - 118	53.8	108	12	30
106-93-4	1,2-Dibromoethane	0.169U	0.169	50.0	48.4	97	80 - 115	51.5	103	6	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	46.6	93	75 - 116	49.8	100	7	30
540-59-0	1,2-Dichloroethene(Total)	0.169U	0.169	100	99.2	99	74 - 128	100	100	0.8	30
99-87-6	4-Isopropyltoluene	0.175U	0.175	50.0	52.5	105	83 - 125	52.8	106	0.6	30
1330-20-7	Xylene (total)	0.123U	0.123	150	150	100	74 - 127	154	103	3	30
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	0.429	50.0	41.7	83	51 - 137	41.8	84	0.2	30
594-20-7	2,2-Dichloropropane	0.112U	0.112	50.0	46.4	93	77 - 138	47.2	94	2	30
76-13-1	Trichlorotrifluoroethane	0.141U	0.141	50.0	51.0	102	74 - 139	50.9	102	0.2	30
563-58-6	1,1-Dichloropropene	0.071U	0.071	50.0	50.9	102	87 - 127	50.5	101	0.8	30
142-28-9	1,3-Dichloropropane	0.113U	0.113	50.0	47.4	95	81 - 113	50.7	101	7	30
108-86-1	Bromobenzene	0.095U	0.095	50.0	46.9	94	83 - 115	50.2	100	7	30
95-49-8	2-Chlorotoluene	0.090U	0.090	50.0	47.9	96	81 - 121	50.7	101	6	30
106-43-4	4-Chlorotoluene	0.046U	0.046	50.0	48.4	97	84 - 120	51.2	102	6	30
98-06-6	tert-Butylbenzene	0.058U	0.058	50.0	50.2	100	83 - 126	50.8	102	1	30
135-98-8	sec-Butylbenzene	0.088U	0.088	50.0	51.9	104	86 - 127	52.3	105	0.8	30
541-73-1	1,3-Dichlorobenzene	0.080U	0.080	50.0	49.4	99	86 - 115	51.8	104	5	30
106-46-7	1,4-Dichlorobenzene	0.058U	0.058	50.0	47.6	95	87 - 113	50.7	101	6	30
104-51-8	n-Butylbenzene	0.068U	0.068	50.0	53.5	107	84 - 124	52.7	105	2	30
95-50-1	1,2-Dichlorobenzene	0.086U	0.086	50.0	48.1	96	85 - 115	51.6	103	7	30
87-68-3	Hexachlorobutadiene	0.347U	0.347	50.0	59.4	119	71 - 133	55.9	112	6	30
91-20-3	Naphthalene	0.175U	0.175	50.0	45.5	91	59 - 125	54.1	108	17	35
75-35-4	1,1-Dichloroethene	0.183U	0.183	50.0	48.9	98	75 - 133	49.8	100	2	20
71-43-2	Benzene	0.049U	0.049	50.0	49.2	98	83 - 124	49.8	100	1	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	473896	**Client ID**	MB473896			LCS473896			LCSD473896		
Prep Batch	N/A	**GCAL ID**	1028971			1028972			1028973		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	01/30/2012 23:04			01/30/2012 21:38			01/30/2012 21:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.094U	0.094	50.0	50.1	100	85 - 124	50.1	100	0	20
108-88-3	Toluene		0.078U	0.078	50.0	47.3	95	86 - 116	49.3	99	4	20
108-90-7	Chlorobenzene		0.055U	0.055	50.0	48.2	96	87 - 115	50.2	100	4	20
Surrogate												
460-00-4	4-Bromofluorobenzene		49.2	98	50	50.4	101	84 - 120	50.4	101		
1868-53-7	Dibromofluoromethane		50.5	101	50	51	102	87 - 116	50.8	102		
2037-26-5	Toluene d8		50.4	101	50	48.7	97	86 - 112	49.7	99		
17060-07-0	1,2-Dichloroethane-d4		50.7	101	50	51.2	102	76 - 127	50.8	102		

Inorganics Quality Control Summary

Analytical Batch	474304	**Client ID**	MB473683		LCS473683		
Prep Batch	473683	**GCAL ID**	1027945		1027946		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	01/26/2012 16:30		01/26/2012 16:30		
		Analytical Date	02/06/2012 16:35		02/06/2012 16:36		
		Matrix	Water		Water		
SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.00008J	0.000075	0.00500	0.00477	95	80 - 120

Analytical Batch	474304	**Client ID**	MW-08-08		1027680MS		
Prep Batch	473683	**GCAL ID**	21201261602		1027948		
Prep Method	SW-846	**Sample Type**	SAMPLE		MS		
	7470A	**Prep Date**	01/26/2012 16:30		01/26/2012 16:30		
		Analytical Date	02/06/2012 16:38		02/06/2012 16:42		
		Matrix	Water		Water		
SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.00000	0.000075	0.00500	0.00345	**69***	75 - 125

Analytical Batch	474304	**Client ID**	MW-08-08		1027680DUP		
Prep Batch	473683	**GCAL ID**	21201261602		1027947		
Prep Method	SW-846	**Sample Type**	SAMPLE		DUP		
	7470A	**Prep Date**	01/26/2012 16:30		01/26/2012 16:30		
		Analytical Date	02/06/2012 16:38		02/06/2012 16:41		
		Matrix	Water		Water		
SW-846 7470A		**Units**	mg/L		**Result**		**RPD**
		Result	**RDL**			**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.000075		0.00000	0	20

Inorganics Quality Control Summary

Analytical Batch	473725	**Client ID**	MB473673	LCS473673
Prep Batch	473673	**GCAL ID**	1027891	1027892
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	01/26/2012 16:30	01/26/2012 16:30
		Analytical Date	01/27/2012 16:25	01/27/2012 16:47
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.024U	0.024	5.00	5.02	100	80 - 120
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.49	97	80 - 120
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.51	102	80 - 120
7440-39-3	Barium	0.0016U	0.0016	0.50	0.49	98	80 - 120
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.48	97	80 - 120
7440-43-9	Cadmium	0.00010U	0.00010	0.50	0.48	97	80 - 120
7440-70-2	Calcium	0.034J	0.024	5.00	4.86	97	80 - 120
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.49	97	80 - 120
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.49	99	80 - 120
7440-50-8	Copper	0.0017U	0.0017	0.50	0.49	97	80 - 120
7439-89-6	Iron	0.027U	0.027	5.00	5.00	100	80 - 120
7439-92-1	Lead	0.0028U	0.0028	0.50	0.49	97	80 - 120
7439-95-4	Magnesium	0.024J	0.012	5.00	4.93	99	80 - 120
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.49	97	80 - 120
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.49	99	80 - 120
7440-09-7	Potassium	0.22J	0.041	10.0	10.3	103	80 - 120
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.48	96	80 - 120
7440-22-4	Silver	0.00064U	0.00064	0.50	0.50	99	80 - 120
7440-23-5	Sodium	0.056U	0.056	20.0	19.7	98	80 - 120
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.49	98	80 - 120
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.48	95	80 - 120
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.48	97	80 - 120

Inorganics Quality Control Summary

Analytical Batch	473725	**Client ID**	MW-08-06	1027679MS
Prep Batch	473673	**GCAL ID**	21201261601	1027894
Prep Method	SW-846	**Sample Type**	SAMPLE	MS
	3010A	**Prep Date**	01/26/2012 16:30	01/26/2012 16:30
		Analytical Date	01/27/2012 16:53	01/27/2012 17:08
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.10	0.024	5.00	5.00	98	75 - 125
7440-36-0	Antimony	0.0	0.0040	0.50	0.55	110	75 - 125
7440-38-2	Arsenic	0.0085	0.0035	0.50	0.59	115	75 - 125
7440-39-3	Barium	0.0066	0.0016	0.50	0.48	95	75 - 125
7440-41-7	Beryllium	0.0	0.000082	0.50	0.45	91	75 - 125
7440-43-9	Cadmium	0.00088	0.00010	0.50	0.44	88	75 - 125
7440-70-2	Calcium	517	0.024	5.00	510	**-200***	75 - 125
7440-47-3	Chromium	0.0	0.00034	0.50	0.45	91	75 - 125
7440-48-4	Cobalt	0.0	0.00052	0.50	0.45	90	75 - 125
7440-50-8	Copper	0.0	0.0017	0.50	0.55	110	75 - 125
7439-89-6	Iron	0.11	0.027	5.00	4.77	93	75 - 125
7439-92-1	Lead	0.0	0.0028	0.50	0.43	86	75 - 125
7439-95-4	Magnesium	808	0.012	5.00	795	**-300***	75 - 125
7439-96-5	Manganese	0.0	0.00083	0.50	0.46	92	75 - 125
7440-02-0	Nickel	0.0	0.00084	0.50	0.44	88	75 - 125
7440-09-7	Potassium	30.9	0.041	10.0	43.3	124	75 - 125
7782-49-2	Selenium	0.0	0.0038	0.50	0.56	112	75 - 125
7440-22-4	Silver	0.0	0.00064	0.50	0.58	116	75 - 125
7440-28-0	Thallium	0.0	0.0026	0.50	0.43	85	75 - 125
7440-62-2	Vanadium	0.0	0.0012	0.50	0.48	96	75 - 125
7440-66-6	Zinc	0.0	0.0059	0.50	0.51	103	75 - 125

Analytical Batch	473725	**Client ID**	MW-08-06	1027679DUP
Prep Batch	473673	**GCAL ID**	21201261601	1027893
Prep Method	SW-846	**Sample Type**	SAMPLE	DUP
	3010A	**Prep Date**	01/26/2012 16:30	01/26/2012 16:30
		Analytical Date	01/27/2012 16:53	01/27/2012 17:00
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
7429-90-5	Aluminum	0.10363166	0.024	0.096	7	20

Inorganics Quality Control Summary

Analytical Batch	473725	**Client ID**	MW-08-06	1027679DUP
Prep Batch	473673	**GCAL ID**	21201261601	1027893
Prep Method	SW-846	**Sample Type**	SAMPLE	DUP
	3010A	**Prep Date**	01/26/2012 16:30	01/26/2012 16:30
		Analytical Date	01/27/2012 16:53	01/27/2012 17:00
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
7440-36-0	Antimony	0.0	0.0040	0.0	0	20
7440-38-2	Arsenic	0.00850831	0.0035	0.0096	12	20
7440-39-3	Barium	0.00663696	0.0016	0.0065	2	20
7440-41-7	Beryllium	0.0	0.000082	0.0	0	20
7440-43-9	Cadmium	0.00088481	0.00010	0.00080	10	20
7440-70-2	Calcium	517.296391	0.024	501	3	20
7440-47-3	Chromium	0.0	0.00034	0.00036	**200***	20
7440-48-4	Cobalt	0.0	0.00052	0.0	0	20
7440-50-8	Copper	0.0	0.0017	0.0	0	20
7439-89-6	Iron	0.10666249	0.027	0.052	**70***	20
7439-92-1	Lead	0.0	0.0028	0.0	0	20
7439-95-4	Magnesium	808.473169	0.012	791	2	20
7439-96-5	Manganese	0.0	0.00083	0.0	0	20
7440-02-0	Nickel	0.0	0.00084	0.0	0	20
7440-09-7	Potassium	30.8635833	0.041	31.3	1	20
7782-49-2	Selenium	0.0	0.0038	0.0	0	20
7440-22-4	Silver	0.0	0.00064	0.0	0	20
7440-28-0	Thallium	0.0	0.0026	0.0	0	20
7440-62-2	Vanadium	0.0	0.0012	0.0	0	20
7440-66-6	Zinc	0.0	0.0059	0.0	0	20

Analytical Batch	473917	**Client ID**	MW-08-06	1027679MS
Prep Batch	473673	**GCAL ID**	21201261601	1027894
Prep Method	SW-846	**Sample Type**	SAMPLE	MS
	3010A	**Prep Date**	01/26/2012 16:30	01/26/2012 16:30
		Analytical Date	01/31/2012 12:59	01/31/2012 13:16
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-23-5	Sodium	4870	1.39	20.0	4980	**558***	75 - 125

Inorganics Quality Control Summary

Analytical Batch	473917	**Client ID**	MW-08-06		1027679DUP		
Prep Batch	473673	**GCAL ID**	21201261601		1027893		
Prep Method	SW-846	**Sample Type**	SAMPLE		DUP		
	3010A	**Prep Date**	01/26/2012 16:30		01/26/2012 16:30		
		Analytical Date	01/31/2012 12:59		01/31/2012 13:07		
		Matrix	Water		Water		
SW-846 6010B		**Units**	mg/L		**Result**		**RPD**
		Result		**RDL**		**RPD**	**Limit**
7440-23-5	Sodium		4866.81621	1.39	5010	3	20

Inorganics Quality Control Summary

Analytical Batch	473725	**Client ID**	MB473688	LCS473688
Prep Batch	473688	**GCAL ID**	1027959	1027960
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	01/26/2012 16:30	01/26/2012 16:30
		Analytical Date	01/27/2012 15:24	01/27/2012 15:31
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.024U	0.024	5.00	5.30	106	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.50	101	88 - 108
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.54	108	88 - 109
7440-39-3	Barium	0.0016U	0.0016	0.50	0.51	102	92 - 112
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.51	102	89 - 113
7440-43-9	Cadmium	0.00010U	0.00010	0.50	0.51	102	88 - 111
7440-70-2	Calcium	0.024U	0.024	5.00	5.27	105	90 - 111
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.50	100	90 - 113
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.51	102	89 - 111
7440-50-8	Copper	0.0017U	0.0017	0.50	0.51	101	86 - 112
7439-89-6	Iron	0.027U	0.027	5.00	5.33	107	89 - 116
7439-92-1	Lead	0.0028U	0.0028	0.50	0.50	101	89 - 109
7439-95-4	Magnesium	0.012U	0.012	5.00	5.36	107	92 - 113
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.50	101	90 - 110
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.51	102	89 - 111
7440-09-7	Potassium	0.041U	0.041	10.0	10.1	101	89 - 114
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.51	102	90 - 110
7440-22-4	Silver	0.00064U	0.00064	0.50	0.52	104	86 - 120
7440-23-5	Sodium	0.056U	0.056	20.0	19.7	98	90 - 117
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.51	102	88 - 108
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.49	99	91 - 111
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.52	103	84 - 111

Inorganics Quality Control Summary

Analytical Batch	473725	**Client ID**	MW-08-06	1027679MS
Prep Batch	473688	**GCAL ID**	21201261601	1027962
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS
	Dissolved	**Prep Date**	01/26/2012 16:30	01/26/2012 16:30
		Analytical Date	01/27/2012 15:37	01/27/2012 15:52
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.0	0.024	5.00	5.02	100	83 - 119
7440-36-0	Antimony	0.0	0.0040	0.50	0.56	112	81 - 124
7440-38-2	Arsenic	0.012	0.0035	0.50	0.60	118	84 - 124
7440-39-3	Barium	0.0060	0.0016	0.50	0.49	96	85 - 120
7440-41-7	Beryllium	0.0	0.000082	0.50	0.47	93	79 - 121
7440-43-9	Cadmium	0.0011	0.00010	0.50	0.45	90	82 - 119
7440-70-2	Calcium	544	0.024	5.00	505	**-800***	48 - 153
7440-47-3	Chromium	0.0	0.00034	0.50	0.46	93	73 - 135
7440-48-4	Cobalt	0.0	0.00052	0.50	0.47	93	82 - 119
7440-50-8	Copper	0.0	0.0017	0.50	0.56	113	82 - 129
7439-89-6	Iron	0.0	0.027	5.00	4.61	92	52 - 155
7439-92-1	Lead	0.0	0.0028	0.50	0.45	90	62 - 146
7439-95-4	Magnesium	852	0.012	5.00	784	**-1000***	62 - 146
7439-96-5	Manganese	0.0	0.00083	0.50	0.47	93	79 - 121
7440-02-0	Nickel	0.0	0.00084	0.50	0.45	91	84 - 120
7440-09-7	Potassium	31.3	0.041	10.0	41.4	101	76 - 132
7782-49-2	Selenium	0.0	0.0038	0.50	0.58	116	71 - 140
7440-22-4	Silver	0.0	0.00064	0.50	0.59	117	75 - 141
7440-28-0	Thallium	0.0	0.0026	0.50	0.45	**89***	90 - 116
7440-62-2	Vanadium	0.0	0.0012	0.50	0.49	98	85 - 120
7440-66-6	Zinc	0.0	0.0059	0.50	0.52	104	60 - 137

Analytical Batch	473725	**Client ID**	MW-08-06	1027679DUP
Prep Batch	473688	**GCAL ID**	21201261601	1027961
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	DUP
	Dissolved	**Prep Date**	01/26/2012 16:30	01/26/2012 16:30
		Analytical Date	01/27/2012 15:37	01/27/2012 15:45
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.024	0.0	0	25

Inorganics Quality Control Summary

Analytical Batch	473725	**Client ID**	MW-08-06	1027679DUP
Prep Batch	473688	**GCAL ID**	21201261601	1027961
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	DUP
	Dissolved	**Prep Date**	01/26/2012 16:30	01/26/2012 16:30
		Analytical Date	01/27/2012 15:37	01/27/2012 15:45
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
7440-36-0	Antimony	0.0	0.0040	0.0	0	25
7440-38-2	Arsenic	0.01176542	0.0035	0.013	6	25
7440-39-3	Barium	0.00597623	0.0016	0.0065	9	25
7440-41-7	Beryllium	0.0	0.000082	0.0	0	25
7440-43-9	Cadmium	0.00113408	0.00010	0.0010	12	25
7440-70-2	Calcium	543.587118	0.024	559	3	25
7440-47-3	Chromium	0.0	0.00034	0.0	0	25
7440-48-4	Cobalt	0.0	0.00052	0.0	0	25
7440-50-8	Copper	0.0	0.0017	0.0	0	25
7439-89-6	Iron	0.0	0.027	0.0	0	25
7439-92-1	Lead	0.0	0.0028	0.0	0	25
7439-95-4	Magnesium	852.06918	0.012	871	2	25
7439-96-5	Manganese	0.0	0.00083	0.0	0	25
7440-02-0	Nickel	0.0	0.00084	0.0	0	25
7440-09-7	Potassium	31.3141743	0.041	32.9	5	25
7782-49-2	Selenium	0.0	0.0038	0.0	0	25
7440-22-4	Silver	0.0	0.00064	0.0	0	25
7440-28-0	Thallium	0.0	0.0026	0.0	0	25
7440-62-2	Vanadium	0.0	0.0012	0.0	0	25
7440-66-6	Zinc	0.0	0.0059	0.0	0	25

Analytical Batch	473917	**Client ID**	MW-08-06	1027679MS
Prep Batch	473688	**GCAL ID**	21201261601	1027962
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS
	Dissolved	**Prep Date**	01/26/2012 16:30	01/26/2012 16:30
		Analytical Date	01/31/2012 11:38	01/31/2012 11:54
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-23-5	Sodium	5140	1.39	20.0	4700	**-2000***	70 - 203

Inorganics Quality Control Summary

Analytical Batch	473917	**Client ID**	MW-08-06		1027679DUP		
Prep Batch	473688	**GCAL ID**	21201261601		1027961		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE		DUP		
	Dissolved	**Prep Date**	01/26/2012 16:30		01/26/2012 16:30		
		Analytical Date	01/31/2012 11:38		01/31/2012 11:47		
		Matrix	Water		Water		
SW-846 6010B Dissolved			**Units**	mg/L	**Result**	**RPD**	**RPD Limit**
			Result	**RDL**			
7440-23-5	Sodium		5136.9635	1.39	4940	4	25

General Chemistry Quality Control Summary

Analytical Batch 473831	**Client ID**	MB473831			LCS473831		
Prep Batch N/A	**GCAL ID**	1028741			1028742		
	Sample Type	Method Blank			LCS		
	Analytical Date	01/30/2012 11:00			01/30/2012 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	924	92.4	90 - 110

Analytical Batch 473955	**Client ID**	MB473955			LCS473955		
Prep Batch N/A	**GCAL ID**	1029181			1029182		
	Sample Type	Method Blank			LCS		
	Analytical Date	01/31/2012 14:30			01/31/2012 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	957	95.7	90 - 110

Analytical Batch 473955	**Client ID**	MW-08-05		1028035DUP		
Prep Batch N/A	**GCAL ID**	21201270901		1029682		
	Sample Type	SAMPLE		DUP		
	Analytical Date	01/31/2012 14:30		01/31/2012 14:30		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2576	7.00	2620	1.7	5

General Chemistry Quality Control Summary

Analytical Batch 473643	**Client ID**	MB473643			LCS473643		
Prep Batch N/A	**GCAL ID**	1027693			1027694		
	Sample Type	Method Blank			LCS		
	Analytical Date	01/26/2012 12:47			01/26/2012 13:05		
	Matrix	Water			Water		
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.053J	0.021	2.50	2.60	104	80 - 120
14797-55-8	Nitrate	0.078U	0.078	2.50	2.60	104	80 - 120
14797-65-0	Nitrite	0.059U	0.059	2.50	2.63	105	80 - 120
16984-48-8	Fluoride	0.086U	0.086	2.50	2.70	108	80 - 120
14808-79-8	Sulfate	0.079U	0.079	5.00	5.26	105	80 - 120

Analytical Batch 473643	**Client ID**	MW-08-06			1027679MS			1027679MSD			
Prep Batch N/A	**GCAL ID**	21201261601			1027695			1027696			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	01/26/2012 19:51			01/26/2012 20:09			01/26/2012 20:27			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	6710	105	12500	21100	115	75 - 125	20900	114	0.9	25
14808-79-8	Sulfate	8170	395	25000	35300	108	75 - 125	35200	108	0.15	25

Analytical Batch 473643	**Client ID**	MW-08-06			1027679MS			1027679MSD			
Prep Batch N/A	**GCAL ID**	21201261601			1027695			1027696			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	01/26/2012 13:23			01/26/2012 13:40			01/26/2012 13:58			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16984-48-8	Fluoride	3.09	2.58	75.0	85.5	110	75 - 125	85.6	110	0.17	25
14797-55-8	Nitrate	19.4	2.34	75.0	100	108	75 - 125	104	113	3.6	25

General Chemistry Quality Control Summary

Analytical Batch 473643	**Client ID**	MW-08-06			1027679MS			1027679MSD			
Prep Batch N/A	**GCAL ID**	21201261601			1027695			1027696			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	01/26/2012 14:16			01/26/2012 14:33			01/26/2012 14:51			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0 Nitrite		0.000	5.90	250	261	105	75 - 125	262	105	0.097	25

NATIONVIEW /4771/212012616/2/6/12

Page: 1 of 1

Project No: 8100004

COC Number(1): 01252012-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q1)

Client Name: USACE - Omaha District

Collected by: Wyeth Bowdoin / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Flouride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	TAL Metals [Total] (6010B/7470A)	TDS (SM19 2540C)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)							Quality Assurance Samples (6)				
MW-08-06	SD08-MW08-06	1/24/2012	1545	-	N	1	WG	7	X	X	X	X	X					1	1
MW-08-08	SD08-MW08-08	1/25/2012	0900	-	N	1	WG	7	X	X	X	X	X					1	2
MW-08-04	SD08-MW08-04	1/25/2012	1130	-	N	1	WG	7	X	X	X	X	X					1	3
Trip Blank					TB	1	WQ	3	X								1325060	1	4
				-															
				-															
				-															
				-															
				-															
				-															

COMMENTS: **Dissolved metals samples filtered in the field.**

3.3

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. D. McN	1/25/11	1500	1. FedEx		
2. FedEx			2. Gaucier	1/26/12	935
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Airbill Number: 7931 5556 0715

Analytical Lab: Delivery Location:

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 212012616

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigation, Holloman AFB

Line Item: 3 - SD-08

Received by: Carstens, Jennifer K.

Received Date/Time: 1/26/2012 9:35:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 1

Cooler tracking number(s): 7931 5556 0715

Cooler temperature(s):

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
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments:

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 02/07/2012

GCAL Report 212012707

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB SD-08 Qrtly (Q1)

CASE NARRATIVE

Client: NationView LLC **Report:** 212012707

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

Several dissolved metals concentrations are greater than the total concentration of these metals in several samples. This is attributed to separate aliquots of sample. The dissolved aliquot was filtered in the field.

In the SW-846 6010B Dissolved analysis for prep batch 473743, the MS/MSD recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010B analysis for prep batch 473744, the MS/MSD recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. Sodium was detected in the method blank. The concentration is less than 10% of the concentration in any of the associated samples.

CONVENTIONALS

In the EPA 300.0 analysis, all samples had to be diluted to bracket the concentration of target analytes within the calibration range of the instrument and to eliminate background interference. The dilutions are reflected in elevated detection limits.

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
Technical Director
GCAL REPORT 212012707

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270701	MW-08-07	Water	01/26/2012 10:00	01/27/2012 09:00
21201270702	MW-08-01	Water	01/26/2012 11:40	01/27/2012 09:00
21201270703	MW-08-01A	Water	01/26/2012 11:40	01/27/2012 09:00

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270701	**MW-08-07**	Water	01/26/2012 10:00	01/27/2012 09:00

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.040J	0.20	0.024	mg/L
7440-38-2	Arsenic	0.047	0.010	0.0035	mg/L
7440-39-3	Barium	0.014	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0021J	0.0050	0.00010	mg/L
7440-70-2	Calcium	653	0.10	0.024	mg/L
7440-47-3	Chromium	0.0013J	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.0041J	0.010	0.00052	mg/L
7440-50-8	Copper	0.0030J	0.010	0.0017	mg/L
7439-95-4	Magnesium	194	0.10	0.012	mg/L
7439-96-5	Manganese	1.73	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0060J	0.040	0.00084	mg/L
7440-09-7	Potassium	5.45	0.50	0.041	mg/L
7440-23-5	Sodium	346	1.00	0.056	mg/L
7440-62-2	Vanadium	0.036	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.048	0.010	0.0035	mg/L
7440-39-3	Barium	0.012	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0022J	0.0050	0.00010	mg/L
7440-70-2	Calcium	676	0.10	0.024	mg/L
7440-47-3	Chromium	0.0012J	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.0031J	0.010	0.00052	mg/L
7440-50-8	Copper	0.0040J	0.010	0.0017	mg/L
7439-95-4	Magnesium	200	0.10	0.012	mg/L
7439-96-5	Manganese	1.33	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0061J	0.040	0.00084	mg/L
7440-09-7	Potassium	5.85	0.50	0.041	mg/L
7440-23-5	Sodium	366	1.00	0.056	mg/L
7440-62-2	Vanadium	0.035	0.020	0.0012	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	4.66	1.00	0.860	mg/L
14797-55-8	Nitrate	2.36J	5.00	0.780	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3840	10.0	7.00	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	436	50.0	10.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270701	**MW-08-07**	Water	01/26/2012 10:00	01/27/2012 09:00

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	Sulfate	2230	100	39.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270702	**MW-08-01**	Water	01/26/2012 11:40	01/27/2012 09:00

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0052J	0.010	0.0035	mg/L
7440-39-3	Barium	0.011	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0029J	0.0050	0.00010	mg/L
7440-70-2	Calcium	491	0.10	0.024	mg/L
7439-89-6	Iron	7.38	0.10	0.027	mg/L
7439-95-4	Magnesium	599	0.10	0.012	mg/L
7439-96-5	Manganese	2.55	0.015	0.00083	mg/L
7440-09-7	Potassium	6.37	0.50	0.041	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1920	10.0	0.56	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.11J	0.20	0.024	mg/L
7440-38-2	Arsenic	0.0066J	0.010	0.0035	mg/L
7440-39-3	Barium	0.012	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0027J	0.0050	0.00010	mg/L
7440-70-2	Calcium	481	0.10	0.024	mg/L
7440-47-3	Chromium	0.00040J	0.010	0.00034	mg/L
7439-89-6	Iron	8.48	0.10	0.027	mg/L
7439-95-4	Magnesium	587	0.10	0.012	mg/L
7439-96-5	Manganese	2.48	0.015	0.00083	mg/L
7440-09-7	Potassium	5.94	0.50	0.041	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1900	10.0	0.56	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	5.63	2.00	1.72	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270702	**MW-08-01**	Water	01/26/2012 11:40	01/27/2012 09:00

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	Sulfate	6250	200	79.0	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	614	50.0	10.5	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9580	10.0	7.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270703	**MW-08-01A**	Water	01/26/2012 11:40	01/27/2012 09:00

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0050J	0.010	0.0035	mg/L
7440-39-3	Barium	0.011	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0029J	0.0050	0.00010	mg/L
7440-70-2	Calcium	501	0.10	0.024	mg/L
7439-89-6	Iron	7.56	0.10	0.027	mg/L
7439-95-4	Magnesium	615	0.10	0.012	mg/L
7439-96-5	Manganese	2.60	0.015	0.00083	mg/L
7440-09-7	Potassium	6.27	0.50	0.041	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1950	10.0	0.56	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.12J	0.20	0.024	mg/L
7440-38-2	Arsenic	0.0068J	0.010	0.0035	mg/L
7440-39-3	Barium	0.012	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0028J	0.0050	0.00010	mg/L
7440-70-2	Calcium	497	0.10	0.024	mg/L
7439-89-6	Iron	8.63	0.10	0.027	mg/L
7439-95-4	Magnesium	608	0.10	0.012	mg/L
7439-96-5	Manganese	2.56	0.015	0.00083	mg/L
7440-09-7	Potassium	6.10	0.50	0.041	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270703	**MW-08-01A**	Water	01/26/2012 11:40	01/27/2012 09:00

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1890**	**10.0**	**0.56**	**mg/L**

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**5.78**	**2.00**	**1.72**	**mg/L**

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**627**	**50.0**	**10.5**	**mg/L**

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**9720**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**6260**	**200**	**79.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270701	**MW-08-07**	Water	01/26/2012 10:00	01/27/2012 09:00

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A Dissolved	1	02/06/2012 16:19	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A	1	02/06/2012 16:20	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473744	SW-846 3010A	1	02/01/2012 13:24	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.040J**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.047**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.014**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0021J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**653**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.0013J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	**Cobalt**	**0.0041J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.0030J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**194**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**1.73**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0060J**	**0.040**	**0.00084**	**mg/L**
7440-09-7	**Potassium**	**5.45**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-23-5	**Sodium**	**346**	**1.00**	**0.056**	**mg/L**
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.036**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	1	02/01/2012 11:30	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270701	**MW-08-07**	Water	01/26/2012 10:00	01/27/2012 09:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	1	02/01/2012 11:30	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.048**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.012**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0022J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**676**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.0012J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	**Cobalt**	**0.0031J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.0040J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**200**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**1.33**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0061J**	**0.040**	**0.00084**	**mg/L**
7440-09-7	**Potassium**	**5.85**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-23-5	**Sodium**	**366**	**1.00**	**0.056**	**mg/L**
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.035**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/30/2012 11:00	DJH	473831

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3840**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	01/27/2012 12:36	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**4.66**	**1.00**	**0.860**	**mg/L**
14797-55-8	**Nitrate**	**2.36J**	**5.00**	**0.780**	**mg/L**
14797-65-0	Nitrite	0.590U	5.00	0.590	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	01/27/2012 15:15	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**436**	**50.0**	**10.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270701	**MW-08-07**	Water	01/26/2012 10:00	01/27/2012 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	01/27/2012 15:15	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**2230**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270702	**MW-08-01**	Water	01/26/2012 11:40	01/27/2012 09:00

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A Dissolved	1	02/06/2012 16:22	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A	1	02/06/2012 16:24	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473744	SW-846 3010A	1	02/01/2012 13:31	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.11J**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.0066J**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.012**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0027J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**481**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.00040J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	Copper	0.0017U	0.010	0.0017	mg/L
7439-89-6	**Iron**	**8.48**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**587**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**2.48**	**0.015**	**0.00083**	**mg/L**
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7440-09-7	**Potassium**	**5.94**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.0012U	0.020	0.0012	mg/L
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473744	SW-846 3010A	10	02/01/2012 15:26	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1900**	**10.0**	**0.56**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270702	**MW-08-01**	Water	01/26/2012 11:40	01/27/2012 09:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	1	02/01/2012 11:38	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.0052J**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.011**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0029J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**491**	**0.10**	**0.024**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	Copper	0.0017U	0.010	0.0017	mg/L
7439-89-6	**Iron**	**7.38**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**599**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**2.55**	**0.015**	**0.00083**	**mg/L**
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7440-09-7	**Potassium**	**6.37**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.0012U	0.020	0.0012	mg/L
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	10	02/01/2012 15:03	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1920**	**10.0**	**0.56**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 14:30	DJH	473955

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**9580**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270702	**MW-08-01**	Water	01/26/2012 11:40	01/27/2012 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	01/27/2012 12:54	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**5.63**	**2.00**	**1.72**	**mg/L**
14797-55-8	Nitrate	1.56U	10.0	1.56	mg/L
14797-65-0	Nitrite	1.18U	10.0	1.18	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	01/27/2012 15:33	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**614**	**50.0**	**10.5**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	01/27/2012 19:40	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**6250**	**200**	**79.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270703	**MW-08-01A**	Water	01/26/2012 11:40	01/27/2012 09:00

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A Dissolved	1	02/06/2012 16:25	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A	1	02/06/2012 16:27	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473744	SW-846 3010A	1	02/01/2012 13:37	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.12J**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.0068J**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.012**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0028J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**497**	**0.10**	**0.024**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	Copper	0.0017U	0.010	0.0017	mg/L
7439-89-6	**Iron**	**8.63**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**608**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**2.56**	**0.015**	**0.00083**	**mg/L**
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7440-09-7	**Potassium**	**6.10**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.0012U	0.020	0.0012	mg/L
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473744	SW-846 3010A	10	02/01/2012 15:33	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1890**	**10.0**	**0.56**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270703	**MW-08-01A**	Water	01/26/2012 11:40	01/27/2012 09:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	1	02/01/2012 12:10	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.0050J**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.011**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0029J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**501**	**0.10**	**0.024**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	Copper	0.0017U	0.010	0.0017	mg/L
7439-89-6	**Iron**	**7.56**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**615**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**2.60**	**0.015**	**0.00083**	**mg/L**
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7440-09-7	**Potassium**	**6.27**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.0012U	0.020	0.0012	mg/L
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	10	02/01/2012 15:11	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1950**	**10.0**	**0.56**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 14:30	DJH	473955

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**9720**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270703	**MW-08-01A**	Water	01/26/2012 11:40	01/27/2012 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	01/27/2012 13:12	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**5.78**	**2.00**	**1.72**	**mg/L**
14797-55-8	Nitrate	1.56U	10.0	1.56	mg/L
14797-65-0	Nitrite	1.18U	10.0	1.18	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	01/27/2012 15:51	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**627**	**50.0**	**10.5**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	01/27/2012 19:58	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**6260**	**200**	**79.0**	**mg/L**

Inorganics Quality Control Summary

Analytical Batch	474304	**Client ID**	MB473745			LCS473745		
Prep Batch	473745	**GCAL ID**	1028310			1028311		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	01/28/2012 07:45			01/28/2012 07:45		
		Analytical Date	02/06/2012 16:02			02/06/2012 16:03		
		Matrix	Water			Water		
SW-846 7470A			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.000075U	0.000075	0.00500	0.00518	104	80 - 120

Analytical Batch	474304	**Client ID**	MW-08-05			MW-08-05 MS			MW-08-05 MSD			
Prep Batch	473745	**GCAL ID**	21201270901			21201270902			21201270903			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	01/28/2012 07:45			01/28/2012 07:45			01/28/2012 07:45			
		Analytical Date	02/06/2012 16:05			02/06/2012 16:06			02/06/2012 16:08			
		Matrix	Water			Water			Water			
SW-846 7470A			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.00000	0.000075	0.00500	0.00533	107	75 - 125	0.00545	109	2	20

Inorganics Quality Control Summary

Analytical Batch	474018	**Client ID**	MB473744	LCS473744
Prep Batch	473744	**GCAL ID**	1028301	1028302
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	01/28/2012 07:45	01/28/2012 07:45
		Analytical Date	02/01/2012 12:24	02/01/2012 12:31
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.024U	0.024	5.00	4.99	100	80 - 120
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.50	100	80 - 120
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.52	105	80 - 120
7440-39-3	Barium	0.0016U	0.0016	0.50	0.50	99	80 - 120
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.49	98	80 - 120
7440-43-9	Cadmium	0.00010U	0.00010	0.50	0.50	100	80 - 120
7440-70-2	Calcium	0.046J	0.024	5.00	5.11	102	80 - 120
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.49	99	80 - 120
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.50	100	80 - 120
7440-50-8	Copper	0.0017U	0.0017	0.50	0.48	96	80 - 120
7439-89-6	Iron	0.027U	0.027	5.00	5.08	102	80 - 120
7439-92-1	Lead	0.0028U	0.0028	0.50	0.51	102	80 - 120
7439-95-4	Magnesium	0.067J	0.012	5.00	5.27	105	80 - 120
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.50	100	80 - 120
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.50	101	80 - 120
7440-09-7	Potassium	0.041U	0.041	10.0	9.76	98	80 - 120
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.52	104	80 - 120
7440-22-4	Silver	0.00064U	0.00064	0.50	0.48	96	80 - 120
7440-23-5	Sodium	1.10	0.056	20.0	20.6	103	80 - 120
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.51	101	80 - 120
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.49	97	80 - 120
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.49	99	80 - 120

Inorganics Quality Control Summary

Analytical Batch	474018	**Client ID**	MW-08-05	MW-08-05 MS	MW-08-05 MSD
Prep Batch	473744	**GCAL ID**	21201270901	21201270902	21201270903
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	01/28/2012 07:45	01/28/2012 07:45	01/28/2012 07:45
		Analytical Date	02/01/2012 12:38	02/01/2012 12:44	02/01/2012 12:51
		Matrix	Water	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.024	5.00	5.16	103	75 - 125	5.04	101	2	20
7440-36-0	Antimony	0.0	0.0040	0.50	0.55	111	75 - 125	0.54	108	3	20
7440-38-2	Arsenic	0.0076	0.0035	0.50	0.58	115	75 - 125	0.56	111	3	20
7440-39-3	Barium	0.017	0.0016	0.50	0.52	100	75 - 125	0.50	97	3	20
7440-41-7	Beryllium	0.0	0.000082	0.50	0.51	102	75 - 125	0.50	99	3	20
7440-43-9	Cadmium	0.0019	0.00010	0.50	0.49	98	75 - 125	0.48	95	3	20
7440-70-2	Calcium	648	0.024	5.00	652	**66***	75 - 125	631	**-400***	3	20
7440-47-3	Chromium	0.00069	0.00034	0.50	0.50	100	75 - 125	0.49	97	3	20
7440-48-4	Cobalt	0.00071	0.00052	0.50	0.51	102	75 - 125	0.50	99	2	20
7440-50-8	Copper	0.0073	0.0017	0.50	0.55	108	75 - 125	0.53	105	3	20
7439-89-6	Iron	0.96	0.027	5.00	6.16	104	75 - 125	5.97	100	3	20
7439-92-1	Lead	0.0	0.0028	0.50	0.50	101	75 - 125	0.49	99	2	20
7439-95-4	Magnesium	52.2	0.012	5.00	57.0	96	75 - 125	55.2	**60***	3	20
7439-96-5	Manganese	0.042	0.00083	0.50	0.55	103	75 - 125	0.54	99	3	20
7440-02-0	Nickel	0.0010	0.00084	0.50	0.50	100	75 - 125	0.49	98	3	20
7440-09-7	Potassium	6.90	0.041	10.0	17.5	106	75 - 125	17.0	101	3	20
7782-49-2	Selenium	0.0	0.0038	0.50	0.56	112	75 - 125	0.54	108	3	20
7440-22-4	Silver	0.0	0.00064	0.50	0.51	103	75 - 125	0.50	100	3	20
7440-23-5	Sodium	21.6	0.056	20.0	43.0	107	75 - 125	41.7	100	3	20
7440-28-0	Thallium	0.0	0.0026	0.50	0.52	103	75 - 125	0.50	100	3	20
7440-62-2	Vanadium	0.030	0.0012	0.50	0.55	103	75 - 125	0.53	100	3	20
7440-66-6	Zinc	0.0	0.0059	0.50	0.54	107	75 - 125	0.52	104	3	20

Inorganics Quality Control Summary

Analytical Batch	474018	**Client ID**	MB473743	LCS473743
Prep Batch	473743	**GCAL ID**	1028297	1028298
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	01/28/2012 09:00	01/28/2012 09:00
		Analytical Date	02/01/2012 10:43	02/01/2012 10:51
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.024U	0.024	5.00	5.16	103	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.50	100	88 - 108
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.52	104	88 - 109
7440-39-3	Barium	0.0016U	0.0016	0.50	0.50	100	92 - 112
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.50	101	89 - 113
7440-43-9	Cadmium	0.00010U	0.00010	0.50	0.50	101	88 - 111
7440-70-2	Calcium	0.024U	0.024	5.00	5.10	102	90 - 111
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.50	99	90 - 113
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.50	99	89 - 111
7440-50-8	Copper	0.0017U	0.0017	0.50	0.49	98	86 - 112
7439-89-6	Iron	0.027U	0.027	5.00	5.17	103	89 - 116
7439-92-1	Lead	0.0028U	0.0028	0.50	0.51	101	89 - 109
7439-95-4	Magnesium	0.020J	0.012	5.00	5.20	104	92 - 113
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.50	99	90 - 110
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.51	101	89 - 111
7440-09-7	Potassium	0.041U	0.041	10.0	9.85	99	89 - 114
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.52	103	90 - 110
7440-22-4	Silver	0.00064U	0.00064	0.50	0.50	100	86 - 120
7440-23-5	Sodium	0.056U	0.056	20.0	20.1	100	90 - 117
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.50	100	88 - 108
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.49	99	91 - 111
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.51	101	84 - 111

Inorganics Quality Control Summary

Analytical Batch	474018	**Client ID**	MW-08-05	MW-08-05 MS	MW-08-05 MSD
Prep Batch	473743	**GCAL ID**	21201270901	21201270902	21201270903
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	01/28/2012 09:00	01/28/2012 09:00	01/28/2012 09:00
		Analytical Date	02/01/2012 10:57	02/01/2012 11:04	02/01/2012 11:10
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.024	5.00	5.21	104	83 - 119	5.08	102	2	25
7440-36-0	Antimony	0.0	0.0040	0.50	0.55	110	81 - 124	0.54	108	2	25
7440-38-2	Arsenic	0.0058	0.0035	0.50	0.57	113	84 - 124	0.56	112	0.9	25
7440-39-3	Barium	0.016	0.0016	0.50	0.52	100	85 - 120	0.51	99	0.5	25
7440-41-7	Beryllium	0.0	0.000082	0.50	0.51	102	79 - 121	0.51	102	0.4	25
7440-43-9	Cadmium	0.0018	0.00010	0.50	0.49	97	82 - 119	0.49	97	0.4	25
7440-70-2	Calcium	611	0.024	5.00	650	**786***	48 - 153	657	**928***	1	25
7440-47-3	Chromium	0.00059	0.00034	0.50	0.50	100	73 - 135	0.50	99	0.8	25
7440-48-4	Cobalt	0.00062	0.00052	0.50	0.51	101	82 - 119	0.50	100	1	25
7440-50-8	Copper	0.0084	0.0017	0.50	0.55	109	82 - 129	0.55	107	0.9	25
7439-89-6	Iron	0.074	0.027	5.00	5.29	104	52 - 155	5.16	102	2	25
7439-92-1	Lead	0.0	0.0028	0.50	0.50	100	62 - 146	0.49	99	1	25
7439-95-4	Magnesium	48.0	0.012	5.00	56.4	**167***	62 - 146	56.2	**164***	0.2	25
7439-96-5	Manganese	0.033	0.00083	0.50	0.54	101	79 - 121	0.54	101	0.4	25
7440-02-0	Nickel	0.00098	0.00084	0.50	0.49	99	84 - 120	0.50	99	0.7	25
7440-09-7	Potassium	6.40	0.041	10.0	17.4	110	76 - 132	17.4	111	0.5	25
7782-49-2	Selenium	0.0	0.0038	0.50	0.55	110	71 - 140	0.55	110	0.3	25
7440-22-4	Silver	0.0	0.00064	0.50	0.52	103	75 - 141	0.51	102	0.8	25
7440-23-5	Sodium	20.4	0.056	20.0	42.9	113	70 - 203	43.4	115	1	25
7440-28-0	Thallium	0.0	0.0026	0.50	0.50	101	90 - 116	0.50	100	0.5	25
7440-62-2	Vanadium	0.031	0.0012	0.50	0.55	103	85 - 120	0.54	103	0.6	25
7440-66-6	Zinc	0.0	0.0059	0.50	0.54	108	60 - 137	0.53	107	1	25

General Chemistry Quality Control Summary

Analytical Batch 473831	**Client ID**	MB473831			LCS473831		
Prep Batch N/A	**GCAL ID**	1028741			1028742		
	Sample Type	Method Blank			LCS		
	Analytical Date	01/30/2012 11:00			01/30/2012 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	924	92.4	90 - 110

Analytical Batch 473955	**Client ID**	MB473955			LCS473955		
Prep Batch N/A	**GCAL ID**	1029181			1029182		
	Sample Type	Method Blank			LCS		
	Analytical Date	01/31/2012 14:30			01/31/2012 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	957	95.7	90 - 110

Analytical Batch 473955	**Client ID**	MW-08-05		1028035DUP		
Prep Batch N/A	**GCAL ID**	21201270901		1029682		
	Sample Type	SAMPLE		DUP		
	Analytical Date	01/31/2012 14:30		01/31/2012 14:30		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2576	7.00	2620	1.7	5

General Chemistry Quality Control Summary

Analytical Batch 473714	**Client ID**	MB473714			LCS473714		
Prep Batch N/A	**GCAL ID**	1028052			1028053		
	Sample Type	Method Blank			LCS		
	Analytical Date	01/27/2012 11:43			01/27/2012 12:01		
	Matrix	Water			Water		
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.58	103	80 - 120
14797-55-8	Nitrate	0.078U	0.078	2.50	2.58	103	80 - 120
14797-65-0	Nitrite	0.059U	0.059	2.50	2.63	105	80 - 120
16984-48-8	Fluoride	0.086U	0.086	2.50	2.67	107	80 - 120
14808-79-8	Sulfate	0.079U	0.079	2.50	2.54	101	80 - 120

Analytical Batch 473714	**Client ID**	MW-08-05			MW-08-05 MS			MW-08-05 MSD			
Prep Batch N/A	**GCAL ID**	21201270901			21201270902			21201270903			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	01/27/2012 13:29			01/27/2012 13:47			01/27/2012 14:05			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.295	12.5	12.6	101	75 - 125	12.7	102	0.64	25
16984-48-8	Fluoride	5.35	0.430	12.5	17.6	97.8	75 - 125	17.6	98.2	0.29	25
14797-55-8	Nitrate	1.04	0.390	12.5	13.1	96.6	75 - 125	13.0	96.1	0.53	25

Analytical Batch 473714	**Client ID**	MW-08-05			MW-08-05 MS			MW-08-05 MSD			
Prep Batch N/A	**GCAL ID**	21201270901			21201270902			21201270903			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	01/27/2012 17:54			01/27/2012 18:47			01/27/2012 19:05			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14808-79-8	Sulfate	1800	79.0	5000	7170	107	75 - 125	7150	107	0.25	25

General Chemistry Quality Control Summary

Analytical Batch 473714	**Client ID**	MW-08-05			MW-08-05 MS			MW-08-05 MSD			
Prep Batch N/A	**GCAL ID**	21201270901			21201270902			21201270903			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	01/27/2012 17:01			01/27/2012 17:19			01/27/2012 17:36			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6 Chloride		27.7	0.420	50.0	82.5	110	75 - 125	82.7	110	0.21	25

NATIONVIEW/4771/212012707/2-7-12

Page: 1 of 1

Project No: 8100004

COC Number(1): 01262012-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q1)

Client Name: USACE - Omaha District

Collected by: Wyeth Bowdoin / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Flouride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	TAL Metals [Total] (6010B/7470A)	TDS (SM19 2540C)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)							Quality Assurance Samples (6)				
MW-08-07	MW-08-07	01/26/2012	1000	-	N	1	WG	4		X	X	X	X					2	1
MW-08-01	MW-08-01	01/26/2012	1140	-	N	1	WG	4		X	X	X	X					2	2
MW-08-01A	MW-08-01	01/26/2012	1140	-	FD	1	WG	4		X	X	X	X					2	3
				-															
				-															
				-															
				-															
				-															
				-															

COMMENTS: **Dissolved metals samples filtered in the field.**

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. J. Mch	1/26/2012	1500	1.		
2. Fed Ex			2. Jaurier	1/27/12	900
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab:

Lab Recipient:

Shipped No.:

Airbill Number: 7979 9061 7474

Delivery Location:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e) 3.0

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 212012707

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 3 - SD-08

Received by: Saucier, Charlotte

Received Date/Time: 1/27/2012 9:00:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 1

Cooler tracking numbers(s): 7979 9016 1 7474

Cooler temperature(s): 3.0

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
Did the Chain of Custody list the sampling technician?	☐ Yes	☑ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments:

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 02/09/2012

GCAL Report 212012709

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB SD-08 Qrtly (Q1)

CASE NARRATIVE

Client: NationView LLC **Report:** 212012709

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

Several dissolved metals concentrations are greater than the total concentration of these metals in several samples. This is attributed to separate aliquots of sample. The dissolved aliquot was filtered in the field.

In the SW-846 6010B analysis, sample 21201270904 (MW-08-03) had to be diluted to bracket the concentration of a target analyte within the linear dynamic range of the instrument.

In the SW-846 6010B Dissolved analysis for prep batch 473743, the MS/MSD recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010B analysis for prep batch 473744, the MS/MSD recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. Sodium was detected in the method blank. The concentration is less than 10% of the concentration in any of the associated samples.

CONVENTIONALS

In the EPA 300.0 analysis, all samples had to be diluted to bracket the concentration of target analytes within the calibration range of the instrument and to eliminate background interference. The dilutions are reflected in elevated detection limits.

In the EPA 300.0 analysis, samples 21201270901 (MW-08-05), 21201270902 (MW-08-05 MS), and 21201270903 (MW-08-05 MSD) were originally analyzed within holding time at a 5 dilution. The sample required re-analysis at a 1 dilution for Nitrate and Nitrite. This analysis was performed outside the 48-hour holding time. The client was contacted and requested that the laboratory report Nitrate and Nitrite results for both dilutions.

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
Technical Director
GCAL REPORT 212012709

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270901	MW-08-05	Water	01/25/2012 14:10	01/27/2012 09:00
21201270902	MW-08-05 MS	Water	01/25/2012 14:10	01/27/2012 09:00
21201270903	MW-08-05 MSD	Water	01/25/2012 14:10	01/27/2012 09:00
21201270904	MW-08-03	Water	01/25/2012 16:20	01/27/2012 09:00

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270901	**MW-08-05**	Water	01/25/2012 14:10	01/27/2012 09:00

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0058J	0.010	0.0035	mg/L
7440-39-3	Barium	0.016	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0018J	0.0050	0.00010	mg/L
7440-70-2	Calcium	611	0.10	0.024	mg/L
7440-47-3	Chromium	0.00059J	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.00062J	0.010	0.00052	mg/L
7440-50-8	Copper	0.0084J	0.010	0.0017	mg/L
7439-89-6	Iron	0.074J	0.10	0.027	mg/L
7439-95-4	Magnesium	48.0	0.10	0.012	mg/L
7439-96-5	Manganese	0.033	0.015	0.00083	mg/L
7440-02-0	Nickel	0.00098J	0.040	0.00084	mg/L
7440-09-7	Potassium	6.40	0.50	0.041	mg/L
7440-23-5	Sodium	20.4	1.00	0.056	mg/L
7440-62-2	Vanadium	0.031	0.020	0.0012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0076J	0.010	0.0035	mg/L
7440-39-3	Barium	0.017	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0019J	0.0050	0.00010	mg/L
7440-70-2	Calcium	648	0.10	0.024	mg/L
7440-47-3	Chromium	0.00069J	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.00071J	0.010	0.00052	mg/L
7440-50-8	Copper	0.0073J	0.010	0.0017	mg/L
7439-89-6	Iron	0.96	0.10	0.027	mg/L
7439-95-4	Magnesium	52.2	0.10	0.012	mg/L
7439-96-5	Manganese	0.042	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0010J	0.040	0.00084	mg/L
7440-09-7	Potassium	6.90	0.50	0.041	mg/L
7440-23-5	Sodium	21.6	1.00	0.056	mg/L
7440-62-2	Vanadium	0.030	0.020	0.0012	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	5.35	0.500	0.430	mg/L
14797-55-8	Nitrate	1.04J	2.50	0.390	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	Sulfate	1800	200	79.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270901	**MW-08-05**	Water	01/25/2012 14:10	01/27/2012 09:00

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.787	0.500	0.078	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2580	10.0	7.00	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	27.7	2.00	0.420	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270902	**MW-08-05 MS**	Water	01/25/2012 14:10	01/27/2012 09:00

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.16	0.20	0.024	mg/L
7440-36-0	Antimony	0.55	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.58	0.010	0.0035	mg/L
7440-39-3	Barium	0.52	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.51	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.49	0.0050	0.00010	mg/L
7440-70-2	Calcium	652	0.10	0.024	mg/L
7440-47-3	Chromium	0.50	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.51	0.010	0.00052	mg/L
7440-50-8	Copper	0.55	0.010	0.0017	mg/L
7439-89-6	Iron	6.16	0.10	0.027	mg/L
7439-92-1	Lead	0.50	0.015	0.0028	mg/L
7439-95-4	Magnesium	57.0	0.10	0.012	mg/L
7439-96-5	Manganese	0.55	0.015	0.00083	mg/L
7440-02-0	Nickel	0.50	0.040	0.00084	mg/L
7440-09-7	Potassium	17.5	0.50	0.041	mg/L
7782-49-2	Selenium	0.56	0.040	0.0038	mg/L
7440-22-4	Silver	0.51	0.010	0.00064	mg/L
7440-23-5	Sodium	43.0	1.00	0.056	mg/L
7440-28-0	Thallium	0.52	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.55	0.020	0.0012	mg/L
7440-66-6	Zinc	0.54	0.020	0.0059	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270902	**MW-08-05 MS**	Water	01/25/2012 14:10	01/27/2012 09:00

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00533	0.00020	0.000075	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00510	0.00020	0.000075	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.21	0.20	0.024	mg/L
7440-36-0	Antimony	0.55	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.57	0.010	0.0035	mg/L
7440-39-3	Barium	0.52	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.51	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.49	0.0050	0.00010	mg/L
7440-70-2	Calcium	650	0.10	0.024	mg/L
7440-47-3	Chromium	0.50	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.51	0.010	0.00052	mg/L
7440-50-8	Copper	0.55	0.010	0.0017	mg/L
7439-89-6	Iron	5.29	0.10	0.027	mg/L
7439-92-1	Lead	0.50	0.015	0.0028	mg/L
7439-95-4	Magnesium	56.4	0.10	0.012	mg/L
7439-96-5	Manganese	0.54	0.015	0.00083	mg/L
7440-02-0	Nickel	0.49	0.040	0.00084	mg/L
7440-09-7	Potassium	17.4	0.50	0.041	mg/L
7782-49-2	Selenium	0.55	0.040	0.0038	mg/L
7440-22-4	Silver	0.52	0.010	0.00064	mg/L
7440-23-5	Sodium	42.9	1.00	0.056	mg/L
7440-28-0	Thallium	0.50	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.55	0.020	0.0012	mg/L
7440-66-6	Zinc	0.54	0.020	0.0059	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	17.6	0.500	0.430	mg/L
14797-55-8	Nitrate	13.1	2.50	0.390	mg/L
14797-65-0	Nitrite	12.6	2.50	0.295	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	3.52	0.500	0.078	mg/L
14797-65-0	Nitrite	2.86	0.500	0.059	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270902	**MW-08-05 MS**	Water	01/25/2012 14:10	01/27/2012 09:00

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	Sulfate	7170	200	79.0	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	82.5	2.00	0.420	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270903	**MW-08-05 MSD**	Water	01/25/2012 14:10	01/27/2012 09:00

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.04	0.20	0.024	mg/L
7440-36-0	Antimony	0.54	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.56	0.010	0.0035	mg/L
7440-39-3	Barium	0.50	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.50	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.48	0.0050	0.00010	mg/L
7440-70-2	Calcium	631	0.10	0.024	mg/L
7440-47-3	Chromium	0.49	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.50	0.010	0.00052	mg/L
7440-50-8	Copper	0.53	0.010	0.0017	mg/L
7439-89-6	Iron	5.97	0.10	0.027	mg/L
7439-92-1	Lead	0.49	0.015	0.0028	mg/L
7439-95-4	Magnesium	55.2	0.10	0.012	mg/L
7439-96-5	Manganese	0.54	0.015	0.00083	mg/L
7440-02-0	Nickel	0.49	0.040	0.00084	mg/L
7440-09-7	Potassium	17.0	0.50	0.041	mg/L
7782-49-2	Selenium	0.54	0.040	0.0038	mg/L
7440-22-4	Silver	0.50	0.010	0.00064	mg/L
7440-23-5	Sodium	41.7	1.00	0.056	mg/L
7440-28-0	Thallium	0.50	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.53	0.020	0.0012	mg/L
7440-66-6	Zinc	0.52	0.020	0.0059	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.08	0.20	0.024	mg/L
7440-36-0	Antimony	0.54	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.56	0.010	0.0035	mg/L
7440-39-3	Barium	0.51	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.51	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.49	0.0050	0.00010	mg/L
7440-70-2	Calcium	657	0.10	0.024	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270903	**MW-08-05 MSD**	Water	01/25/2012 14:10	01/27/2012 09:00

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-47-3	Chromium	0.50	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.50	0.010	0.00052	mg/L
7440-50-8	Copper	0.55	0.010	0.0017	mg/L
7439-89-6	Iron	5.16	0.10	0.027	mg/L
7439-92-1	Lead	0.49	0.015	0.0028	mg/L
7439-95-4	Magnesium	56.2	0.10	0.012	mg/L
7439-96-5	Manganese	0.54	0.015	0.00083	mg/L
7440-02-0	Nickel	0.50	0.040	0.00084	mg/L
7440-09-7	Potassium	17.4	0.50	0.041	mg/L
7782-49-2	Selenium	0.55	0.040	0.0038	mg/L
7440-22-4	Silver	0.51	0.010	0.00064	mg/L
7440-23-5	Sodium	43.4	1.00	0.056	mg/L
7440-28-0	Thallium	0.50	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.54	0.020	0.0012	mg/L
7440-66-6	Zinc	0.53	0.020	0.0059	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00520	0.00020	0.000075	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00545	0.00020	0.000075	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	17.6	0.500	0.430	mg/L
14797-55-8	Nitrate	13.0	2.50	0.390	mg/L
14797-65-0	Nitrite	12.7	2.50	0.295	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	82.7	2.00	0.420	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	3.54	0.500	0.078	mg/L
14797-65-0	Nitrite	2.87	0.500	0.059	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270903	**MW-08-05 MSD**	Water	01/25/2012 14:10	01/27/2012 09:00

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	Sulfate	7150	200	79.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270904	**MW-08-03**	Water	01/25/2012 16:20	01/27/2012 09:00

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.31	0.20	0.024	mg/L
7440-38-2	Arsenic	0.0098J	0.010	0.0035	mg/L
7440-39-3	Barium	0.0058J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0024J	0.0050	0.00010	mg/L
7440-70-2	Calcium	610	0.10	0.024	mg/L
7440-47-3	Chromium	0.0011J	0.010	0.00034	mg/L
7440-50-8	Copper	0.0031J	0.010	0.0017	mg/L
7439-95-4	Magnesium	662	0.10	0.012	mg/L
7440-02-0	Nickel	0.0024J	0.040	0.00084	mg/L
7440-09-7	Potassium	21.6	0.50	0.041	mg/L
7440-62-2	Vanadium	0.0037J	0.020	0.0012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2400	10.0	0.56	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.014	0.010	0.0035	mg/L
7440-39-3	Barium	0.0051J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0024J	0.0050	0.00010	mg/L
7440-70-2	Calcium	593	0.10	0.024	mg/L
7440-47-3	Chromium	0.00046J	0.010	0.00034	mg/L
7440-50-8	Copper	0.0020J	0.010	0.0017	mg/L
7439-95-4	Magnesium	660	0.10	0.012	mg/L
7440-02-0	Nickel	0.0031J	0.040	0.00084	mg/L
7440-09-7	Potassium	21.4	0.50	0.041	mg/L
7440-62-2	Vanadium	0.0018J	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2370	10.0	0.56	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270904	**MW-08-03**	Water	01/25/2012 16:20	01/27/2012 09:00

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	2.95	2.00	1.72	mg/L
14797-55-8	Nitrate	16.6	10.0	1.56	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	4030	200	42.0	mg/L
14808-79-8	Sulfate	4890	400	158	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	11800	10.0	7.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270901	**MW-08-05**	Water	01/25/2012 14:10	01/27/2012 09:00

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A Dissolved	1	02/06/2012 16:14	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A	1	02/06/2012 16:05	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473744	SW-846 3010A	1	02/01/2012 12:38	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.0076J**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.017**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0019J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**648**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.00069J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	**Cobalt**	**0.00071J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.0073J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	**Iron**	**0.96**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**52.2**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**0.042**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0010J**	**0.040**	**0.00084**	**mg/L**
7440-09-7	**Potassium**	**6.90**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-23-5	**Sodium**	**21.6**	**1.00**	**0.056**	**mg/L**
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.030**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	1	02/01/2012 10:57	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270901	**MW-08-05**	Water	01/25/2012 14:10	01/27/2012 09:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	1	02/01/2012 10:57	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.0058J**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.016**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0018J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**611**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.00059J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	**Cobalt**	**0.00062J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.0084J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	**Iron**	**0.074J**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**48.0**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**0.033**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.00098J**	**0.040**	**0.00084**	**mg/L**
7440-09-7	**Potassium**	**6.40**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-23-5	**Sodium**	**20.4**	**1.00**	**0.056**	**mg/L**
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.031**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 14:30	DJH	473955

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2580**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	01/27/2012 13:29	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**5.35**	**0.500**	**0.430**	**mg/L**
14797-55-8	**Nitrate**	**1.04J**	**2.50**	**0.390**	**mg/L**
14797-65-0	Nitrite	0.295U	2.50	0.295	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/27/2012 16:08	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.787**	**0.500**	**0.078**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270901	**MW-08-05**	Water	01/25/2012 14:10	01/27/2012 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/27/2012 16:08	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.059U	0.500	0.059	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	01/27/2012 17:01	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**27.7**	**2.00**	**0.420**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	01/27/2012 17:54	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**1800**	**200**	**79.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270902	**MW-08-05 MS**	Water	01/25/2012 14:10	01/27/2012 09:00

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A Dissolved	1	02/06/2012 16:16	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00510**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A	1	02/06/2012 16:06	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00533**	**0.00020**	**0.000075**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473744	SW-846 3010A	1	02/01/2012 12:44	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**5.16**	**0.20**	**0.024**	**mg/L**
7440-36-0	**Antimony**	**0.55**	**0.060**	**0.0040**	**mg/L**
7440-38-2	**Arsenic**	**0.58**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.52**	**0.010**	**0.0016**	**mg/L**
7440-41-7	**Beryllium**	**0.51**	**0.0050**	**0.000082**	**mg/L**
7440-43-9	**Cadmium**	**0.49**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**652**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.50**	**0.010**	**0.00034**	**mg/L**
7440-48-4	**Cobalt**	**0.51**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.55**	**0.010**	**0.0017**	**mg/L**
7439-89-6	**Iron**	**6.16**	**0.10**	**0.027**	**mg/L**
7439-92-1	**Lead**	**0.50**	**0.015**	**0.0028**	**mg/L**
7439-95-4	**Magnesium**	**57.0**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**0.55**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.50**	**0.040**	**0.00084**	**mg/L**
7440-09-7	**Potassium**	**17.5**	**0.50**	**0.041**	**mg/L**
7782-49-2	**Selenium**	**0.56**	**0.040**	**0.0038**	**mg/L**
7440-22-4	**Silver**	**0.51**	**0.010**	**0.00064**	**mg/L**
7440-23-5	**Sodium**	**43.0**	**1.00**	**0.056**	**mg/L**
7440-28-0	**Thallium**	**0.52**	**0.020**	**0.0026**	**mg/L**
7440-62-2	**Vanadium**	**0.55**	**0.020**	**0.0012**	**mg/L**
7440-66-6	**Zinc**	**0.54**	**0.020**	**0.0059**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	1	02/01/2012 11:04	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**5.21**	**0.20**	**0.024**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270902	**MW-08-05 MS**	Water	01/25/2012 14:10	01/27/2012 09:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	1	02/01/2012 11:04	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.55	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.57	0.010	0.0035	mg/L
7440-39-3	Barium	0.52	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.51	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.49	0.0050	0.00010	mg/L
7440-70-2	Calcium	650	0.10	0.024	mg/L
7440-47-3	Chromium	0.50	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.51	0.010	0.00052	mg/L
7440-50-8	Copper	0.55	0.010	0.0017	mg/L
7439-89-6	Iron	5.29	0.10	0.027	mg/L
7439-92-1	Lead	0.50	0.015	0.0028	mg/L
7439-95-4	Magnesium	56.4	0.10	0.012	mg/L
7439-96-5	Manganese	0.54	0.015	0.00083	mg/L
7440-02-0	Nickel	0.49	0.040	0.00084	mg/L
7440-09-7	Potassium	17.4	0.50	0.041	mg/L
7782-49-2	Selenium	0.55	0.040	0.0038	mg/L
7440-22-4	Silver	0.52	0.010	0.00064	mg/L
7440-23-5	Sodium	42.9	1.00	0.056	mg/L
7440-28-0	Thallium	0.50	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.55	0.020	0.0012	mg/L
7440-66-6	Zinc	0.54	0.020	0.0059	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	01/27/2012 13:47	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	17.6	0.500	0.430	mg/L
14797-55-8	Nitrate	13.1	2.50	0.390	mg/L
14797-65-0	Nitrite	12.6	2.50	0.295	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/27/2012 16:26	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	3.52	0.500	0.078	mg/L
14797-65-0	Nitrite	2.86	0.500	0.059	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270902	**MW-08-05 MS**	Water	01/25/2012 14:10	01/27/2012 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	01/27/2012 17:19	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**82.5**	**2.00**	**0.420**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	01/27/2012 18:47	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**7170**	**200**	**79.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270903	**MW-08-05 MSD**	Water	01/25/2012 14:10	01/27/2012 09:00

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A Dissolved	1	02/06/2012 16:17	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00520	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A	1	02/06/2012 16:08	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00545	0.00020	0.000075	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473744	SW-846 3010A	1	02/01/2012 12:51	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.04	0.20	0.024	mg/L
7440-36-0	Antimony	0.54	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.56	0.010	0.0035	mg/L
7440-39-3	Barium	0.50	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.50	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.48	0.0050	0.00010	mg/L
7440-70-2	Calcium	631	0.10	0.024	mg/L
7440-47-3	Chromium	0.49	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.50	0.010	0.00052	mg/L
7440-50-8	Copper	0.53	0.010	0.0017	mg/L
7439-89-6	Iron	5.97	0.10	0.027	mg/L
7439-92-1	Lead	0.49	0.015	0.0028	mg/L
7439-95-4	Magnesium	55.2	0.10	0.012	mg/L
7439-96-5	Manganese	0.54	0.015	0.00083	mg/L
7440-02-0	Nickel	0.49	0.040	0.00084	mg/L
7440-09-7	Potassium	17.0	0.50	0.041	mg/L
7782-49-2	Selenium	0.54	0.040	0.0038	mg/L
7440-22-4	Silver	0.50	0.010	0.00064	mg/L
7440-23-5	Sodium	41.7	1.00	0.056	mg/L
7440-28-0	Thallium	0.50	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.53	0.020	0.0012	mg/L
7440-66-6	Zinc	0.52	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	1	02/01/2012 11:10	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.08	0.20	0.024	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270903	**MW-08-05 MSD**	Water	01/25/2012 14:10	01/27/2012 09:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	1	02/01/2012 11:10	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.54	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.56	0.010	0.0035	mg/L
7440-39-3	Barium	0.51	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.51	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.49	0.0050	0.00010	mg/L
7440-70-2	Calcium	657	0.10	0.024	mg/L
7440-47-3	Chromium	0.50	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.50	0.010	0.00052	mg/L
7440-50-8	Copper	0.55	0.010	0.0017	mg/L
7439-89-6	Iron	5.16	0.10	0.027	mg/L
7439-92-1	Lead	0.49	0.015	0.0028	mg/L
7439-95-4	Magnesium	56.2	0.10	0.012	mg/L
7439-96-5	Manganese	0.54	0.015	0.00083	mg/L
7440-02-0	Nickel	0.50	0.040	0.00084	mg/L
7440-09-7	Potassium	17.4	0.50	0.041	mg/L
7782-49-2	Selenium	0.55	0.040	0.0038	mg/L
7440-22-4	Silver	0.51	0.010	0.00064	mg/L
7440-23-5	Sodium	43.4	1.00	0.056	mg/L
7440-28-0	Thallium	0.50	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.54	0.020	0.0012	mg/L
7440-66-6	Zinc	0.53	0.020	0.0059	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	01/27/2012 14:05	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	17.6	0.500	0.430	mg/L
14797-55-8	Nitrate	13.0	2.50	0.390	mg/L
14797-65-0	Nitrite	12.7	2.50	0.295	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/27/2012 16:43	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	3.54	0.500	0.078	mg/L
14797-65-0	Nitrite	2.87	0.500	0.059	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270903	**MW-08-05 MSD**	Water	01/25/2012 14:10	01/27/2012 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	01/27/2012 17:36	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**82.7**	**2.00**	**0.420**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	01/27/2012 19:05	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**7150**	**200**	**79.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270904	**MW-08-03**	Water	01/25/2012 16:20	01/27/2012 09:00

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A Dissolved	1	02/06/2012 16:28	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473745	SW-846 7470A	1	02/06/2012 16:33	CLB	474304

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473744	SW-846 3010A	1	02/01/2012 13:44	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.31**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.0098J**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.0058J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0024J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**610**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.0011J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	**Copper**	**0.0031J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**662**	**0.10**	**0.012**	**mg/L**
7439-96-5	Manganese	0.00083U	0.015	0.00083	mg/L
7440-02-0	**Nickel**	**0.0024J**	**0.040**	**0.00084**	**mg/L**
7440-09-7	**Potassium**	**21.6**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.0037J**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 07:45	473744	SW-846 3010A	10	02/01/2012 15:40	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2400**	**10.0**	**0.56**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270904	**MW-08-03**	Water	01/25/2012 16:20	01/27/2012 09:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	1	02/01/2012 12:16	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.014**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.0051J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0024J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**593**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.00046J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	**Copper**	**0.0020J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**660**	**0.10**	**0.012**	**mg/L**
7439-96-5	Manganese	0.00083U	0.015	0.00083	mg/L
7440-02-0	**Nickel**	**0.0031J**	**0.040**	**0.00084**	**mg/L**
7440-09-7	**Potassium**	**21.4**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.0018J**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 09:00	473743	SW-846 3005 Dissolved	10	02/01/2012 15:18	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2370**	**10.0**	**0.56**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 14:30	DJH	473955

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**11800**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201270904	**MW-08-03**	Water	01/25/2012 16:20	01/27/2012 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	01/27/2012 14:22	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**2.95**	**2.00**	**1.72**	**mg/L**
14797-55-8	**Nitrate**	**16.6**	**10.0**	**1.56**	**mg/L**
14797-65-0	Nitrite	1.18U	10.0	1.18	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	01/27/2012 19:22	AEL	473714

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**4030**	**200**	**42.0**	**mg/L**
14808-79-8	**Sulfate**	**4890**	**400**	**158**	**mg/L**

Inorganics Quality Control Summary

Analytical Batch	474304	**Client ID**	MW-08-05	MW-08-05 MS	MW-08-05 MSD
Prep Batch	473745	**GCAL ID**	21201270901	21201270902	21201270903
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	7470A	**Prep Date**	01/28/2012 07:45	01/28/2012 07:45	01/28/2012 07:45
	Dissolved	**Analytical Date**	02/06/2012 16:14	02/06/2012 16:16	02/06/2012 16:17
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.000075	0.00500	0.00510	102	75 - 125	0.00520	104	2	10

Inorganics Quality Control Summary

Analytical Batch	474304	**Client ID**	MB473745	LCS473745
Prep Batch	473745	**GCAL ID**	1028310	1028311
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	01/28/2012 07:45	01/28/2012 07:45
		Analytical Date	02/06/2012 16:02	02/06/2012 16:03
		Matrix	Water	Water

SW-846 7470A		**Units**	mg/L	**Spike**			
		Result	**RDL**	**Added**	**Result**	**% R**	**Control Limits % R**
7439-97-6	Mercury	0.000075U	0.000075	0.00500	0.00518	104	80 - 120

Analytical Batch	474304	**Client ID**	MW-08-05	MW-08-05 MS	MW-08-05 MSD
Prep Batch	473745	**GCAL ID**	21201270901	21201270902	21201270903
Prep Method	SW-846 7470A	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	01/28/2012 07:45	01/28/2012 07:45	01/28/2012 07:45
		Analytical Date	02/06/2012 16:05	02/06/2012 16:06	02/06/2012 16:08
		Matrix	Water	Water	Water

SW-846 7470A		**Units**	mg/L	**Spike**							
		Result	**RDL**	**Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7439-97-6	Mercury	0.00000	0.000075	0.00500	0.00533	107	75 - 125	0.00545	109	2	20

Inorganics Quality Control Summary

Analytical Batch	474018	**Client ID**	MB473744	LCS473744
Prep Batch	473744	**GCAL ID**	1028301	1028302
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	01/28/2012 07:45	01/28/2012 07:45
		Analytical Date	02/01/2012 12:24	02/01/2012 12:31
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.024U	0.024	5.00	4.99	100	80 - 120
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.50	100	80 - 120
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.52	105	80 - 120
7440-39-3	Barium	0.0016U	0.0016	0.50	0.50	99	80 - 120
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.49	98	80 - 120
7440-43-9	Cadmium	0.00010U	0.00010	0.50	0.50	100	80 - 120
7440-70-2	Calcium	0.046J	0.024	5.00	5.11	102	80 - 120
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.49	99	80 - 120
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.50	100	80 - 120
7440-50-8	Copper	0.0017U	0.0017	0.50	0.48	96	80 - 120
7439-89-6	Iron	0.027U	0.027	5.00	5.08	102	80 - 120
7439-92-1	Lead	0.0028U	0.0028	0.50	0.51	102	80 - 120
7439-95-4	Magnesium	0.067J	0.012	5.00	5.27	105	80 - 120
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.50	100	80 - 120
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.50	101	80 - 120
7440-09-7	Potassium	0.041U	0.041	10.0	9.76	98	80 - 120
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.52	104	80 - 120
7440-22-4	Silver	0.00064U	0.00064	0.50	0.48	96	80 - 120
7440-23-5	Sodium	1.10	0.056	20.0	20.6	103	80 - 120
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.51	101	80 - 120
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.49	97	80 - 120
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.49	99	80 - 120

Inorganics Quality Control Summary

Analytical Batch	474018	**Client ID**	MW-08-05	MW-08-05 MS	MW-08-05 MSD
Prep Batch	473744	**GCAL ID**	21201270901	21201270902	21201270903
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	01/28/2012 07:45	01/28/2012 07:45	01/28/2012 07:45
		Analytical Date	02/01/2012 12:38	02/01/2012 12:44	02/01/2012 12:51
		Matrix	Water	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.024	5.00	5.16	103	75 - 125	5.04	101	2	20
7440-36-0	Antimony	0.0	0.0040	0.50	0.55	111	75 - 125	0.54	108	3	20
7440-38-2	Arsenic	0.0076	0.0035	0.50	0.58	115	75 - 125	0.56	111	3	20
7440-39-3	Barium	0.017	0.0016	0.50	0.52	100	75 - 125	0.50	97	3	20
7440-41-7	Beryllium	0.0	0.000082	0.50	0.51	102	75 - 125	0.50	99	3	20
7440-43-9	Cadmium	0.0019	0.00010	0.50	0.49	98	75 - 125	0.48	95	3	20
7440-70-2	Calcium	648	0.024	5.00	652	**66***	75 - 125	631	**-400***	3	20
7440-47-3	Chromium	0.00069	0.00034	0.50	0.50	100	75 - 125	0.49	97	3	20
7440-48-4	Cobalt	0.00071	0.00052	0.50	0.51	102	75 - 125	0.50	99	2	20
7440-50-8	Copper	0.0073	0.0017	0.50	0.55	108	75 - 125	0.53	105	3	20
7439-89-6	Iron	0.96	0.027	5.00	6.16	104	75 - 125	5.97	100	3	20
7439-92-1	Lead	0.0	0.0028	0.50	0.50	101	75 - 125	0.49	99	2	20
7439-95-4	Magnesium	52.2	0.012	5.00	57.0	96	75 - 125	55.2	**60***	3	20
7439-96-5	Manganese	0.042	0.00083	0.50	0.55	103	75 - 125	0.54	99	3	20
7440-02-0	Nickel	0.0010	0.00084	0.50	0.50	100	75 - 125	0.49	98	3	20
7440-09-7	Potassium	6.90	0.041	10.0	17.5	106	75 - 125	17.0	101	3	20
7782-49-2	Selenium	0.0	0.0038	0.50	0.56	112	75 - 125	0.54	108	3	20
7440-22-4	Silver	0.0	0.00064	0.50	0.51	103	75 - 125	0.50	100	3	20
7440-23-5	Sodium	21.6	0.056	20.0	43.0	107	75 - 125	41.7	100	3	20
7440-28-0	Thallium	0.0	0.0026	0.50	0.52	103	75 - 125	0.50	100	3	20
7440-62-2	Vanadium	0.030	0.0012	0.50	0.55	103	75 - 125	0.53	100	3	20
7440-66-6	Zinc	0.0	0.0059	0.50	0.54	107	75 - 125	0.52	104	3	20

Inorganics Quality Control Summary

Analytical Batch	474018	**Client ID**	MB473743	LCS473743
Prep Batch	473743	**GCAL ID**	1028297	1028298
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	01/28/2012 09:00	01/28/2012 09:00
		Analytical Date	02/01/2012 10:43	02/01/2012 10:51
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.024U	0.024	5.00	5.16	103	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.50	100	88 - 108
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.52	104	88 - 109
7440-39-3	Barium	0.0016U	0.0016	0.50	0.50	100	92 - 112
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.50	101	89 - 113
7440-43-9	Cadmium	0.00010U	0.00010	0.50	0.50	101	88 - 111
7440-70-2	Calcium	0.024U	0.024	5.00	5.10	102	90 - 111
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.50	99	90 - 113
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.50	99	89 - 111
7440-50-8	Copper	0.0017U	0.0017	0.50	0.49	98	86 - 112
7439-89-6	Iron	0.027U	0.027	5.00	5.17	103	89 - 116
7439-92-1	Lead	0.0028U	0.0028	0.50	0.51	101	89 - 109
7439-95-4	Magnesium	0.020J	0.012	5.00	5.20	104	92 - 113
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.50	99	90 - 110
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.51	101	89 - 111
7440-09-7	Potassium	0.041U	0.041	10.0	9.85	99	89 - 114
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.52	103	90 - 110
7440-22-4	Silver	0.00064U	0.00064	0.50	0.50	100	86 - 120
7440-23-5	Sodium	0.056U	0.056	20.0	20.1	100	90 - 117
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.50	100	88 - 108
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.49	99	91 - 111
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.51	101	84 - 111

Inorganics Quality Control Summary

Analytical Batch	474018	**Client ID**	MW-08-05	MW-08-05 MS	MW-08-05 MSD
Prep Batch	473743	**GCAL ID**	21201270901	21201270902	21201270903
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	01/28/2012 09:00	01/28/2012 09:00	01/28/2012 09:00
		Analytical Date	02/01/2012 10:57	02/01/2012 11:04	02/01/2012 11:10
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.024	5.00	5.21	104	83 - 119	5.08	102	2	25
7440-36-0	Antimony	0.0	0.0040	0.50	0.55	110	81 - 124	0.54	108	2	25
7440-38-2	Arsenic	0.0058	0.0035	0.50	0.57	113	84 - 124	0.56	112	0.9	25
7440-39-3	Barium	0.016	0.0016	0.50	0.52	100	85 - 120	0.51	99	0.5	25
7440-41-7	Beryllium	0.0	0.000082	0.50	0.51	102	79 - 121	0.51	102	0.4	25
7440-43-9	Cadmium	0.0018	0.00010	0.50	0.49	97	82 - 119	0.49	97	0.4	25
7440-70-2	Calcium	611	0.024	5.00	650	**786***	48 - 153	657	**928***	1	25
7440-47-3	Chromium	0.00059	0.00034	0.50	0.50	100	73 - 135	0.50	99	0.8	25
7440-48-4	Cobalt	0.00062	0.00052	0.50	0.51	101	82 - 119	0.50	100	1	25
7440-50-8	Copper	0.0084	0.0017	0.50	0.55	109	82 - 129	0.55	107	0.9	25
7439-89-6	Iron	0.074	0.027	5.00	5.29	104	52 - 155	5.16	102	2	25
7439-92-1	Lead	0.0	0.0028	0.50	0.50	100	62 - 146	0.49	99	1	25
7439-95-4	Magnesium	48.0	0.012	5.00	56.4	**167***	62 - 146	56.2	**164***	0.2	25
7439-96-5	Manganese	0.033	0.00083	0.50	0.54	101	79 - 121	0.54	101	0.4	25
7440-02-0	Nickel	0.00098	0.00084	0.50	0.49	99	84 - 120	0.50	99	0.7	25
7440-09-7	Potassium	6.40	0.041	10.0	17.4	110	76 - 132	17.4	111	0.5	25
7782-49-2	Selenium	0.0	0.0038	0.50	0.55	110	71 - 140	0.55	110	0.3	25
7440-22-4	Silver	0.0	0.00064	0.50	0.52	103	75 - 141	0.51	102	0.8	25
7440-23-5	Sodium	20.4	0.056	20.0	42.9	113	70 - 203	43.4	115	1	25
7440-28-0	Thallium	0.0	0.0026	0.50	0.50	101	90 - 116	0.50	100	0.5	25
7440-62-2	Vanadium	0.031	0.0012	0.50	0.55	103	85 - 120	0.54	103	0.6	25
7440-66-6	Zinc	0.0	0.0059	0.50	0.54	108	60 - 137	0.53	107	1	25

General Chemistry Quality Control Summary

Analytical Batch 473955	**Client ID**	MB473955			LCS473955		
Prep Batch N/A	**GCAL ID**	1029181			1029182		
	Sample Type	Method Blank			LCS		
	Analytical Date	01/31/2012 14:30			01/31/2012 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	957	95.7	90 - 110

Analytical Batch 473955	**Client ID**	MW-08-05		1028035DUP		
Prep Batch N/A	**GCAL ID**	21201270901		1029682		
	Sample Type	SAMPLE		DUP		
	Analytical Date	01/31/2012 14:30		01/31/2012 14:30		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2576	7.00	2620	1.7	5

General Chemistry Quality Control Summary

Analytical Batch 473714	**Client ID**	MB473714			LCS473714		
Prep Batch N/A	**GCAL ID**	1028052			1028053		
	Sample Type	Method Blank			LCS		
	Analytical Date	01/27/2012 11:43			01/27/2012 12:01		
	Matrix	Water			Water		
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.58	103	80 - 120
14797-55-8	Nitrate	0.078U	0.078	2.50	2.58	103	80 - 120
14797-65-0	Nitrite	0.059U	0.059	2.50	2.63	105	80 - 120
16984-48-8	Fluoride	0.086U	0.086	2.50	2.67	107	80 - 120
14808-79-8	Sulfate	0.079U	0.079	2.50	2.54	101	80 - 120

Analytical Batch 473714	**Client ID**	MW-08-05			MW-08-05 MS			MW-08-05 MSD			
Prep Batch N/A	**GCAL ID**	21201270901			21201270902			21201270903			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	01/27/2012 13:29			01/27/2012 13:47			01/27/2012 14:05			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16984-48-8	Fluoride	5.35	0.430	12.5	17.6	97.8	75 - 125	17.6	98.2	0.29	25
14797-55-8	Nitrate	1.04	0.390	12.5	13.1	96.6	75 - 125	13.0	96.1	0.53	25
14797-65-0	Nitrite	0.000	0.295	12.5	12.6	101	75 - 125	12.7	102	0.64	25

Analytical Batch 473714	**Client ID**	MW-08-05			MW-08-05 MS			MW-08-05 MSD			
Prep Batch N/A	**GCAL ID**	21201270901			21201270902			21201270903			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	01/27/2012 16:08			01/27/2012 16:26			01/27/2012 16:43			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.787	0.078	2.50	3.52	109	75 - 125	3.54	110	0.54	25
14797-65-0	Nitrite	0.000	0.059	2.50	2.86	115	75 - 125	2.87	115	0.12	25

General Chemistry Quality Control Summary

Analytical Batch 473714	**Client ID**	MW-08-05			MW-08-05 MS			MW-08-05 MSD			
Prep Batch N/A	**GCAL ID**	21201270901			21201270902			21201270903			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	01/27/2012 17:54			01/27/2012 18:47			01/27/2012 19:05			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14808-79-8 Sulfate		1800	79.0	5000	7170	107	75 - 125	7150	107	0.25	25

Analytical Batch 473714	**Client ID**	MW-08-05			MW-08-05 MS			MW-08-05 MSD			
Prep Batch N/A	**GCAL ID**	21201270901			21201270902			21201270903			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	01/27/2012 17:01			01/27/2012 17:19			01/27/2012 17:36			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6 Chloride		27.7	0.420	50.0	82.5	110	75 - 125	82.7	110	0.21	25

NATIONVIEW/4771/212012709 /2-7-12

Page: 1 of 1

Project No: 8100004

COC Number(1): 01252012-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q1)

Client Name: USACE - Omaha District

Collected by: Wyeth Bowdoin / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Flouride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	TAL Metals [Total] (6010B/7470A)	TDS (SM19 2540C)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)							Quality Assurance Samples (6)				
MW-08-05	MW-08-05	01/25/2012	1410	-	N	1	WG	4		X	X	X	X					1	1
MW-08-05-MS	MW-08-05	01/25/2012	1410	-	MS	1	WG	4		X	X	X	X					1	2
MW-08-05-MSD	MW-08-05	01/25/2012	1410	-	SD	1	WG	4		X	X	X	X					1	3
MW-08-03	MW-08-03	01/25/2012	1620		N	1	WG	4		X	X	X	X					1	4
				-															
				-															
				-															
				-															
				-															
				-															

COMMENTS: **Dissolved metals samples filtered in the field.**

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. J. McNeil	1/26/2012	1500	1.		
2. Fed Ex			2. [signature]	1/27/12	900
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 7979 9061 7420

Analytical Lab: Delivery Location:

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e) 2.4

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 212012709

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 3 - SD-08

Received by: Saucier, Charlotte

Received Date/Time: 1/27/2012 9:00:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 1

Cooler tracking numbers(s): 7979 9061 7420

Cooler temperature(s): 2.4

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
Did the Chain of Custody list the sampling technician?	☐ Yes	☑ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments:

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 02/06/2012

GCAL Report 212012808

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB SD-08 Qrtly (Q1)

CASE NARRATIVE

Client: NationView LLC **Report:** 212012808

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 473938, the MS/MSD exhibited recovery and RPD failures. The LCSD recovery is above the upper control limit for Bromochloromethane. This compound was not detected in the associated samples. All other LCS/LCSD recoveries are acceptable.

METALS

Several dissolved metals concentrations are greater than the total concentration of these metals in several samples. This is attributed to separate aliquots of sample. The dissolved aliquot was filtered in the field.

In the SW-846 6010B analysis for prep batch 473743, the MS/MSD recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010B analysis for prep batch 473788, the Sample/Duplicate RPD for Copper, Manganese and Zinc is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. The MS recovery is not applicable for Calcium because the sample concentration is greater than four times the spike concentration.

In the SW-846 7470A analysis for prep batch 473789, the Sample/Duplicate RPD for Mercury is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

CONVENTIONALS

In the EPA 300.0 analysis, sample 21201280808 (MW-08-02) had to be diluted to bracket the concentration of target analytes within the calibration range of the instrument and to eliminate background interference. The dilutions are reflected in elevated detection limits.

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
Technical Director
GCAL REPORT 212012808

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280801	MW-08-05	Water	01/25/2012 14:10	01/28/2012 09:10
21201280802	MW-08-05-MS	Water	01/25/2012 14:10	01/28/2012 09:10
21201280803	MW-08-05-MSD	Water	01/25/2012 14:10	01/28/2012 09:10
21201280804	MW-08-03	Water	01/25/2012 16:20	01/28/2012 09:10
21201280805	MW-08-07	Water	01/26/2012 10:00	01/28/2012 09:10
21201280806	MW-08-01	Water	01/26/2012 11:40	01/28/2012 09:10
21201280807	MW-08-01A	Water	01/26/2012 11:40	01/28/2012 09:10
21201280808	MW-08-02	Water	01/26/2012 15:30	01/28/2012 09:10
21201280809	TRIP BLANK	Water	01/26/2012 00:00	01/28/2012 09:10

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280801	**MW-08-05**	Water	01/25/2012 14:10	01/28/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
91-20-3	Naphthalene	2.49J	5	0.175	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280802	**MW-08-05-MS**	Water	01/25/2012 14:10	01/28/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.3	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	54.6	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	49.3	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	49.2	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	49.2	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	52.4	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	52.4	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	51.3	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	64.4	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	53.0	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	52.6	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	50.0	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	52.7	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	52.2	5	0.121	ug/L
540-59-0	1,2-Dichloroethene(Total)	103	10	0.169	ug/L
78-87-5	1,2-Dichloropropane	50.3	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	54.9	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	53.2	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	47.8	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	53.8	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	52.6	5	0.112	ug/L
78-93-3	2-Butanone	40.8	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.2	5	0.090	ug/L
591-78-6	2-Hexanone	40.3	5	0.302	ug/L
106-43-4	4-Chlorotoluene	52.7	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	55.4	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	51.5	5	0.142	ug/L
67-64-1	Acetone	25.1	5	0.322	ug/L
71-43-2	Benzene	50.9	5	0.049	ug/L
108-86-1	Bromobenzene	50.4	5	0.095	ug/L
74-97-5	Bromochloromethane	53.3	5	0.238	ug/L
75-27-4	Bromodichloromethane	53.1	5	0.071	ug/L
75-25-2	Bromoform	50.6	5	0.278	ug/L
74-83-9	Bromomethane	62.3	5	0.276	ug/L
75-15-0	Carbon disulfide	52.8	5	0.190	ug/L
56-23-5	Carbon tetrachloride	52.4	5	0.056	ug/L
108-90-7	Chlorobenzene	50.4	5	0.055	ug/L
75-00-3	Chloroethane	49.1	5	0.279	ug/L
67-66-3	Chloroform	49.0	5	0.062	ug/L
74-87-3	Chloromethane	48.1	5	0.076	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280802	**MW-08-05-MS**	Water	01/25/2012 14:10	01/28/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
124-48-1	Dibromochloromethane	51.8	5	0.133	ug/L
74-95-3	Dibromomethane	54.2	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	56.1	5	0.088	ug/L
100-41-4	Ethylbenzene	51.2	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	70.8	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	53.3	5	0.058	ug/L
74-88-4	Methyl iodide	34.2	5	0.097	ug/L
75-09-2	Methylene chloride	49.1	5	0.102	ug/L
91-20-3	Naphthalene	55.0	5	0.175	ug/L
100-42-5	Styrene	49.6	5	0.058	ug/L
127-18-4	Tetrachloroethene	54.5	5	0.141	ug/L
108-88-3	Toluene	48.6	5	0.078	ug/L
79-01-6	Trichloroethene	51.0	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	56.9	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	59.4	5	0.141	ug/L
75-01-4	Vinyl chloride	52.2	5	0.104	ug/L
1330-20-7	Xylene (total)	151	15	0.123	ug/L
156-59-2	cis-1,2-Dichloroethene	51.8	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	53.6	5	0.105	ug/L
136777-61-2	m,p-Xylene	101	10	0.099	ug/L
104-51-8	n-Butylbenzene	57.7	5	0.068	ug/L
103-65-1	n-Propylbenzene	55.1	5	0.069	ug/L
95-47-6	o-Xylene	50.3	5	0.077	ug/L
135-98-8	sec-Butylbenzene	55.8	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	51.3	5	0.084	ug/L
98-06-6	tert-Butylbenzene	56.0	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	51.1	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	52.4	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	44.9	5	0.429	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280803	**MW-08-05-MSD**	Water	01/25/2012 14:10	01/28/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	46.9	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	48.4	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	49.2	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	46.7	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	47.4	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	48.6	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	48.3	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	51.8	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	57.9	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	46.9	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	54.6	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	49.7	5	0.169	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280803	**MW-08-05-MSD**	Water	01/25/2012 14:10	01/28/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
95-50-1	1,2-Dichlorobenzene	48.8	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	49.8	5	0.121	ug/L
540-59-0	1,2-Dichloroethene(Total)	96.2	10	0.169	ug/L
78-87-5	1,2-Dichloropropane	47.9	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	48.5	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	47.1	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	46.6	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	47.9	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	46.9	5	0.112	ug/L
78-93-3	2-Butanone	41.8	5	0.235	ug/L
95-49-8	2-Chlorotoluene	48.1	5	0.090	ug/L
591-78-6	2-Hexanone	41.0	5	0.302	ug/L
106-43-4	4-Chlorotoluene	47.6	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	46.8	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	54.1	5	0.142	ug/L
67-64-1	Acetone	23.9	5	0.322	ug/L
71-43-2	Benzene	46.6	5	0.049	ug/L
108-86-1	Bromobenzene	45.8	5	0.095	ug/L
74-97-5	Bromochloromethane	51.4	5	0.238	ug/L
75-27-4	Bromodichloromethane	48.7	5	0.071	ug/L
75-25-2	Bromoform	49.5	5	0.278	ug/L
74-83-9	Bromomethane	50.4	5	0.276	ug/L
75-15-0	Carbon disulfide	46.5	5	0.190	ug/L
56-23-5	Carbon tetrachloride	48.4	5	0.056	ug/L
108-90-7	Chlorobenzene	46.2	5	0.055	ug/L
75-00-3	Chloroethane	47.1	5	0.279	ug/L
67-66-3	Chloroform	45.5	5	0.062	ug/L
74-87-3	Chloromethane	46.0	5	0.076	ug/L
124-48-1	Dibromochloromethane	50.8	5	0.133	ug/L
74-95-3	Dibromomethane	51.5	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	49.8	5	0.088	ug/L
100-41-4	Ethylbenzene	47.2	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	56.8	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	46.5	5	0.058	ug/L
74-88-4	Methyl iodide	42.6	5	0.097	ug/L
75-09-2	Methylene chloride	47.3	5	0.102	ug/L
91-20-3	Naphthalene	53.2	5	0.175	ug/L
100-42-5	Styrene	46.3	5	0.058	ug/L
127-18-4	Tetrachloroethene	47.0	5	0.141	ug/L
108-88-3	Toluene	44.9	5	0.078	ug/L
79-01-6	Trichloroethene	46.8	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	50.4	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	51.6	5	0.141	ug/L
75-01-4	Vinyl chloride	46.8	5	0.104	ug/L
1330-20-7	Xylene (total)	138	15	0.123	ug/L
156-59-2	cis-1,2-Dichloroethene	48.1	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	49.0	5	0.105	ug/L
136777-61-2	m,p-Xylene	92.1	10	0.099	ug/L
104-51-8	n-Butylbenzene	48.0	5	0.068	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280803	**MW-08-05-MSD**	Water	01/25/2012 14:10	01/28/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
103-65-1	n-Propylbenzene	46.8	5	0.069	ug/L
95-47-6	o-Xylene	45.6	5	0.077	ug/L
135-98-8	sec-Butylbenzene	47.1	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	50.8	5	0.084	ug/L
98-06-6	tert-Butylbenzene	47.0	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	48.1	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	49.5	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	43.1	5	0.429	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280804	**MW-08-03**	Water	01/25/2012 16:20	01/28/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-66-3	Chloroform	0.890J	5	0.062	ug/L
91-20-3	Naphthalene	1.15J	5	0.175	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280805	**MW-08-07**	Water	01/26/2012 10:00	01/28/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	34.3	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.783J	5	0.114	ug/L
91-20-3	Naphthalene	0.655J	5	0.175	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280806	**MW-08-01**	Water	01/26/2012 11:40	01/28/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	44.4	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	6.49	5	0.114	ug/L
67-64-1	Acetone	9.67	5	0.322	ug/L
71-43-2	Benzene	0.513J	5	0.049	ug/L
135-98-8	sec-Butylbenzene	0.924J	5	0.088	ug/L
98-06-6	tert-Butylbenzene	1.01J	5	0.058	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280807	**MW-08-01A**	Water	01/26/2012 11:40	01/28/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	40.6	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	6.13	5	0.114	ug/L
67-64-1	Acetone	10.4	5	0.322	ug/L
71-43-2	Benzene	0.559J	5	0.049	ug/L
135-98-8	sec-Butylbenzene	0.741J	5	0.088	ug/L
98-06-6	tert-Butylbenzene	1.00J	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280808	**MW-08-02**	Water	01/26/2012 15:30	01/28/2012 09:10

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.17J	0.20	0.024	mg/L
7440-38-2	Arsenic	0.023	0.010	0.0035	mg/L
7440-39-3	Barium	0.013	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0019J	0.0050	0.00010	mg/L
7440-70-2	Calcium	614	0.10	0.024	mg/L
7440-48-4	Cobalt	0.0018J	0.010	0.00052	mg/L
7440-50-8	Copper	0.0044J	0.010	0.0017	mg/L
7439-89-6	Iron	0.90	0.10	0.027	mg/L
7439-95-4	Magnesium	163	0.10	0.012	mg/L
7439-96-5	Manganese	1.05	0.015	0.00083	mg/L
7440-02-0	Nickel	0.00094J	0.040	0.00084	mg/L
7440-09-7	Potassium	3.53	0.50	0.041	mg/L
7440-62-2	Vanadium	0.023	0.020	0.0012	mg/L
7440-66-6	Zinc	0.011J	0.020	0.0059	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	90.0	1.00	0.056	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00010J	0.00020	0.000075	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.16J	0.20	0.024	mg/L
7440-38-2	Arsenic	0.026	0.010	0.0035	mg/L
7440-39-3	Barium	0.013	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0021J	0.0050	0.00010	mg/L
7440-70-2	Calcium	606	0.10	0.024	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280808	**MW-08-02**	Water	01/26/2012 15:30	01/28/2012 09:10

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-47-3	Chromium	0.0011J	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.0025J	0.010	0.00052	mg/L
7440-50-8	Copper	0.0047J	0.010	0.0017	mg/L
7439-89-6	Iron	0.52	0.10	0.027	mg/L
7439-95-4	Magnesium	161	0.10	0.012	mg/L
7439-96-5	Manganese	1.03	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0036J	0.040	0.00084	mg/L
7440-09-7	Potassium	3.57	0.50	0.041	mg/L
7440-23-5	Sodium	90.5	1.00	0.056	mg/L
7440-62-2	Vanadium	0.021	0.020	0.0012	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.090J	0.500	0.078	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	73.1	10.0	2.10	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	Sulfate	2160	200	79.0	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	7.31	2.00	1.72	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3270	10.0	7.00	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	7.82	5	0.121	ug/L
71-43-2	Benzene	0.260J	5	0.049	ug/L
98-06-6	tert-Butylbenzene	0.475J	5	0.058	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280809	**TRIP BLANK**	Water	01/26/2012 00:00	01/28/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	**Acetone**	**4.28J**	**5**	**0.322**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280801	**MW-08-05**	Water	01/25/2012 14:10	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 15:46	CEK	473938

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.169U	10	0.169	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	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	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	**Naphthalene**	**2.49J**	**5**	**0.175**	**ug/L**
100-42-5	Styrene	0.058U	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280801	**MW-08-05**	Water	01/25/2012 14:10	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 15:46	CEK	473938

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
1330-20-7	Xylene (total)	0.123U	15	0.123	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	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	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.5	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	49.8	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.6	ug/L	101	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280802	**MW-08-05-MS**	Water	01/25/2012 14:10	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 18:49	JCK	473938

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.3	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	54.6	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	49.3	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	49.2	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	49.2	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	52.4	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	52.4	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	51.3	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	64.4	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	53.0	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	52.6	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	50.0	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	52.7	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	52.2	5	0.121	ug/L
540-59-0	1,2-Dichloroethene(Total)	103	10	0.169	ug/L
78-87-5	1,2-Dichloropropane	50.3	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	54.9	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	53.2	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	47.8	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	53.8	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	52.6	5	0.112	ug/L
78-93-3	2-Butanone	40.8	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.2	5	0.090	ug/L
591-78-6	2-Hexanone	40.3	5	0.302	ug/L
106-43-4	4-Chlorotoluene	52.7	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	55.4	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	51.5	5	0.142	ug/L
67-64-1	Acetone	25.1	5	0.322	ug/L
71-43-2	Benzene	50.9	5	0.049	ug/L
108-86-1	Bromobenzene	50.4	5	0.095	ug/L
74-97-5	Bromochloromethane	53.3	5	0.238	ug/L
75-27-4	Bromodichloromethane	53.1	5	0.071	ug/L
75-25-2	Bromoform	50.6	5	0.278	ug/L
74-83-9	Bromomethane	62.3	5	0.276	ug/L
75-15-0	Carbon disulfide	52.8	5	0.190	ug/L
56-23-5	Carbon tetrachloride	52.4	5	0.056	ug/L
108-90-7	Chlorobenzene	50.4	5	0.055	ug/L
75-00-3	Chloroethane	49.1	5	0.279	ug/L
67-66-3	Chloroform	49.0	5	0.062	ug/L
74-87-3	Chloromethane	48.1	5	0.076	ug/L
124-48-1	Dibromochloromethane	51.8	5	0.133	ug/L
74-95-3	Dibromomethane	54.2	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	56.1	5	0.088	ug/L
100-41-4	Ethylbenzene	51.2	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	70.8	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	53.3	5	0.058	ug/L
74-88-4	Methyl iodide	34.2	5	0.097	ug/L
75-09-2	Methylene chloride	49.1	5	0.102	ug/L
91-20-3	Naphthalene	55.0	5	0.175	ug/L
100-42-5	Styrene	49.6	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280802	**MW-08-05-MS**	Water	01/25/2012 14:10	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 18:49	JCK	473938

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**54.5**	**5**	**0.141**	**ug/L**
108-88-3	**Toluene**	**48.6**	**5**	**0.078**	**ug/L**
79-01-6	**Trichloroethene**	**51.0**	**5**	**0.094**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**56.9**	**5**	**0.094**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**59.4**	**5**	**0.141**	**ug/L**
75-01-4	**Vinyl chloride**	**52.2**	**5**	**0.104**	**ug/L**
1330-20-7	**Xylene (total)**	**151**	**15**	**0.123**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**51.8**	**5**	**0.104**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**53.6**	**5**	**0.105**	**ug/L**
136777-61-2	**m,p-Xylene**	**101**	**10**	**0.099**	**ug/L**
104-51-8	**n-Butylbenzene**	**57.7**	**5**	**0.068**	**ug/L**
103-65-1	**n-Propylbenzene**	**55.1**	**5**	**0.069**	**ug/L**
95-47-6	**o-Xylene**	**50.3**	**5**	**0.077**	**ug/L**
135-98-8	**sec-Butylbenzene**	**55.8**	**5**	**0.088**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**51.3**	**5**	**0.084**	**ug/L**
98-06-6	**tert-Butylbenzene**	**56.0**	**5**	**0.058**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**51.1**	**5**	**0.096**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**52.4**	**5**	**0.068**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**44.9**	**5**	**0.429**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.1	ug/L	94	84 - 120
1868-53-7	Dibromofluoromethane	50	51.5	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	47.4	ug/L	95	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.1	ug/L	102	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280803	**MW-08-05-MSD**	Water	01/25/2012 14:10	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 19:12	JCK	473938

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	46.9	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	48.4	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	49.2	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	46.7	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	47.4	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	48.6	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	48.3	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	51.8	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	57.9	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	46.9	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	54.6	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	49.7	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	48.8	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	49.8	5	0.121	ug/L
540-59-0	1,2-Dichloroethene(Total)	96.2	10	0.169	ug/L
78-87-5	1,2-Dichloropropane	47.9	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	48.5	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	47.1	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	46.6	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	47.9	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	46.9	5	0.112	ug/L
78-93-3	2-Butanone	41.8	5	0.235	ug/L
95-49-8	2-Chlorotoluene	48.1	5	0.090	ug/L
591-78-6	2-Hexanone	41.0	5	0.302	ug/L
106-43-4	4-Chlorotoluene	47.6	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	46.8	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	54.1	5	0.142	ug/L
67-64-1	Acetone	23.9	5	0.322	ug/L
71-43-2	Benzene	46.6	5	0.049	ug/L
108-86-1	Bromobenzene	45.8	5	0.095	ug/L
74-97-5	Bromochloromethane	51.4	5	0.238	ug/L
75-27-4	Bromodichloromethane	48.7	5	0.071	ug/L
75-25-2	Bromoform	49.5	5	0.278	ug/L
74-83-9	Bromomethane	50.4	5	0.276	ug/L
75-15-0	Carbon disulfide	46.5	5	0.190	ug/L
56-23-5	Carbon tetrachloride	48.4	5	0.056	ug/L
108-90-7	Chlorobenzene	46.2	5	0.055	ug/L
75-00-3	Chloroethane	47.1	5	0.279	ug/L
67-66-3	Chloroform	45.5	5	0.062	ug/L
74-87-3	Chloromethane	46.0	5	0.076	ug/L
124-48-1	Dibromochloromethane	50.8	5	0.133	ug/L
74-95-3	Dibromomethane	51.5	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	49.8	5	0.088	ug/L
100-41-4	Ethylbenzene	47.2	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	56.8	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	46.5	5	0.058	ug/L
74-88-4	Methyl iodide	42.6	5	0.097	ug/L
75-09-2	Methylene chloride	47.3	5	0.102	ug/L
91-20-3	Naphthalene	53.2	5	0.175	ug/L
100-42-5	Styrene	46.3	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280803	**MW-08-05-MSD**	Water	01/25/2012 14:10	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 19:12	JCK	473938

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**47.0**	**5**	**0.141**	**ug/L**
108-88-3	**Toluene**	**44.9**	**5**	**0.078**	**ug/L**
79-01-6	**Trichloroethene**	**46.8**	**5**	**0.094**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**50.4**	**5**	**0.094**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**51.6**	**5**	**0.141**	**ug/L**
75-01-4	**Vinyl chloride**	**46.8**	**5**	**0.104**	**ug/L**
1330-20-7	**Xylene (total)**	**138**	**15**	**0.123**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**48.1**	**5**	**0.104**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**49.0**	**5**	**0.105**	**ug/L**
136777-61-2	**m,p-Xylene**	**92.1**	**10**	**0.099**	**ug/L**
104-51-8	**n-Butylbenzene**	**48.0**	**5**	**0.068**	**ug/L**
103-65-1	**n-Propylbenzene**	**46.8**	**5**	**0.069**	**ug/L**
95-47-6	**o-Xylene**	**45.6**	**5**	**0.077**	**ug/L**
135-98-8	**sec-Butylbenzene**	**47.1**	**5**	**0.088**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**50.8**	**5**	**0.084**	**ug/L**
98-06-6	**tert-Butylbenzene**	**47.0**	**5**	**0.058**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**48.1**	**5**	**0.096**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**49.5**	**5**	**0.068**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**43.1**	**5**	**0.429**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	49.3	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	49	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.7	ug/L	101	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280804	**MW-08-03**	Water	01/25/2012 16:20	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 19:58	CEK	473938

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.169U	10	0.169	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	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	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	**Chloroform**	**0.890J**	**5**	**0.062**	**ug/L**
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	**Naphthalene**	**1.15J**	**5**	**0.175**	**ug/L**
100-42-5	Styrene	0.058U	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280804	**MW-08-03**	Water	01/25/2012 16:20	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 19:58	CEK	473938

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
1330-20-7	Xylene (total)	0.123U	15	0.123	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	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	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	51.8	ug/L	104	87 - 116
2037-26-5	Toluene d8	50	49.2	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.4	ug/L	105	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280805	**MW-08-07**	Water	01/26/2012 10:00	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 20:21	CEK	473938

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	**1,2-Dichloroethane**	**34.3**	**5**	**0.121**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.169U	10	0.169	ug/L
78-87-5	**1,2-Dichloropropane**	**0.783J**	**5**	**0.114**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	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	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	**Naphthalene**	**0.655J**	**5**	**0.175**	**ug/L**
100-42-5	Styrene	0.058U	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280805	**MW-08-07**	Water	01/26/2012 10:00	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 20:21	CEK	473938

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
1330-20-7	Xylene (total)	0.123U	15	0.123	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	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	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	48.7	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280806	**MW-08-01**	Water	01/26/2012 11:40	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 20:44	CEK	473938

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	**1,2-Dichloroethane**	**44.4**	**5**	**0.121**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.169U	10	0.169	ug/L
78-87-5	**1,2-Dichloropropane**	**6.49**	**5**	**0.114**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**9.67**	**5**	**0.322**	**ug/L**
71-43-2	**Benzene**	**0.513J**	**5**	**0.049**	**ug/L**
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280806	**MW-08-01**	Water	01/26/2012 11:40	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 20:44	CEK	473938

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
1330-20-7	Xylene (total)	0.123U	15	0.123	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	**sec-Butylbenzene**	**0.924J**	**5**	**0.088**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	**tert-Butylbenzene**	**1.01J**	**5**	**0.058**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.1	ug/L	88	84 - 120
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	44.6	ug/L	89	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.7	ug/L	105	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280807	**MW-08-01A**	Water	01/26/2012 11:40	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 21:08	CEK	473938

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	**1,2-Dichloroethane**	**40.6**	**5**	**0.121**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.169U	10	0.169	ug/L
78-87-5	**1,2-Dichloropropane**	**6.13**	**5**	**0.114**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**10.4**	**5**	**0.322**	**ug/L**
71-43-2	**Benzene**	**0.559J**	**5**	**0.049**	**ug/L**
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280807	**MW-08-01A**	Water	01/26/2012 11:40	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 21:08	CEK	473938

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
1330-20-7	Xylene (total)	0.123U	15	0.123	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	**sec-Butylbenzene**	**0.741J**	**5**	**0.088**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	**tert-Butylbenzene**	**1.00J**	**5**	**0.058**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.6	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	51	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	46.3	ug/L	93	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.2	ug/L	104	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280808	**MW-08-02**	Water	01/26/2012 15:30	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/05/2012 16:37	JCK	474256

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	**1,2-Dichloroethane**	**7.82**	**5**	**0.121**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.169U	10	0.169	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	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**	**0.260J**	**5**	**0.049**	**ug/L**
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280808	**MW-08-02**	Water	01/26/2012 15:30	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/05/2012 16:37	JCK	474256

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
1330-20-7	Xylene (total)	0.123U	15	0.123	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	**tert-Butylbenzene**	**0.475J**	**5**	**0.058**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.5	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	49.1	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	52.8	ug/L	106	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 10:30	473789	SW-846 7470A Dissolved	1	01/30/2012 13:07	BNB	473835

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00010J**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 10:30	473789	SW-846 7470A	1	01/30/2012 14:27	BNB	473835

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280808	**MW-08-02**	Water	01/26/2012 15:30	01/28/2012 09:10

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 10:30	473788	SW-846 3010A	1	01/30/2012 12:48	CLB	473845

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.17J**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.023**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.013**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0019J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**614**	**0.10**	**0.024**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	**Cobalt**	**0.0018J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.0044J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	**Iron**	**0.90**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**163**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**1.05**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.00094J**	**0.040**	**0.00084**	**mg/L**
7440-09-7	**Potassium**	**3.53**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.023**	**0.020**	**0.0012**	**mg/L**
7440-66-6	**Zinc**	**0.011J**	**0.020**	**0.0059**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 10:30	473788	SW-846 3010A	1	01/31/2012 14:41	CLB	473917

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**90.0**	**1.00**	**0.056**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 11:47	473743	SW-846 3005 Dissolved	1	02/01/2012 12:03	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.16J**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.026**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.013**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0021J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**606**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.0011J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	**Cobalt**	**0.0025J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.0047J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	**Iron**	**0.52**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280808	**MW-08-02**	Water	01/26/2012 15:30	01/28/2012 09:10

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/28/2012 11:47	473743	SW-846 3005 Dissolved	1	02/01/2012 12:03	CLB	474018

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	**Magnesium**	**161**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**1.03**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0036J**	**0.040**	**0.00084**	**mg/L**
7440-09-7	**Potassium**	**3.57**	**0.50**	**0.041**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-23-5	**Sodium**	**90.5**	**1.00**	**0.056**	**mg/L**
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.021**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 14:30	DJH	473955

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3270**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/28/2012 12:38	AEL	473795

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.090J**	**0.500**	**0.078**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	01/28/2012 13:31	AEL	473795

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**7.31**	**2.00**	**1.72**	**mg/L**
14797-65-0	Nitrite	1.18U	10.0	1.18	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	01/28/2012 14:23	AEL	473795

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**2160**	**200**	**79.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280808	**MW-08-02**	Water	01/26/2012 15:30	01/28/2012 09:10

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	02/02/2012 15:25	JEM	474116

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**73.1**	**10.0**	**2.10**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280809	**TRIP BLANK**	Water	01/26/2012 00:00	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/05/2012 16:58	JCK	474256

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.169U	10	0.169	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**4.28J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201280809	**TRIP BLANK**	Water	01/26/2012 00:00	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/05/2012 16:58	JCK	474256

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
1330-20-7	Xylene (total)	0.123U	15	0.123	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	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	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.7	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	49.7	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	52	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.3	ug/L	97	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 473938		**Client ID**	MB473938			LCS473938			LCSD473938		
Prep Batch N/A		**GCAL ID**	1029098			1029099			1029100		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	01/31/2012 13:05			01/31/2012 10:45			01/31/2012 11:08		
		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	47.2	94	59 - 134	48.2	96	2	30
74-97-5	Bromochloromethane	0.238U	0.238		50.0	53.7	107	78 - 112	56.3	**113***	5	30
75-27-4	Bromodichloromethane	0.071U	0.071		50.0	53.4	107	76 - 116	53.7	107	0.6	30
75-25-2	Bromoform	0.278U	0.278		50.0	53.0	106	68 - 128	53.5	107	0.9	30
74-83-9	Bromomethane	0.276U	0.276		50.0	45.7	91	55 - 151	49.6	99	8	30
75-15-0	Carbon disulfide	0.190U	0.190		50.0	49.5	99	67 - 147	51.0	102	3	30
56-23-5	Carbon tetrachloride	0.056U	0.056		50.0	53.7	107	74 - 139	54.3	109	1	30
75-00-3	Chloroethane	0.279U	0.279		50.0	48.2	96	54 - 166	48.0	96	0.4	30
136777-61-2	m,p-Xylene	0.099U	0.099		100	100	100	83 - 121	98.7	99	1	30
67-66-3	Chloroform	0.062U	0.062		50.0	49.9	100	85 - 123	51.0	102	2	30
74-87-3	Chloromethane	0.076U	0.076		50.0	44.7	89	55 - 173	43.5	87	3	30
124-48-1	Dibromochloromethane	0.133U	0.133		50.0	53.3	107	74 - 116	52.6	105	1	30
74-95-3	Dibromomethane	0.197U	0.197		50.0	54.5	109	81 - 116	55.3	111	1	30
75-71-8	Dichlorodifluoromethane	0.088U	0.088		50.0	37.5	75	34 - 158	38.9	78	4	30
75-34-3	1,1-Dichloroethane	0.064U	0.064		50.0	57.4	115	82 - 127	51.8	104	10	30
107-06-2	1,2-Dichloroethane	0.121U	0.121		50.0	53.0	106	76 - 122	54.4	109	3	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104		50.0	51.8	104	81 - 114	54.1	108	4	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096		50.0	49.8	100	82 - 126	48.1	96	3	30
75-09-2	Methylene chloride	0.102U	0.102		50.0	49.5	99	69 - 125	50.1	100	1	30
78-87-5	1,2-Dichloropropane	0.114U	0.114		50.0	51.1	102	81 - 120	52.9	106	3	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105		50.0	54.3	109	83 - 119	54.3	109	0	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068		50.0	53.8	108	87 - 123	53.5	107	0.6	30
100-41-4	Ethylbenzene	0.180U	0.180		50.0	52.1	104	87 - 118	50.9	102	2	30
591-78-6	2-Hexanone	0.302U	0.302		50.0	47.5	95	58 - 125	48.2	96	1	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058		50.0	54.1	108	87 - 131	52.1	104	4	30
78-93-3	2-Butanone	0.235U	0.235		50.0	52.4	105	61 - 127	51.0	102	3	30
74-88-4	Methyl iodide	0.097U	0.097		50.0	46.1	92	72 - 125	48.4	97	5	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142		50.0	52.5	105	62 - 125	51.1	102	3	30
103-65-1	n-Propylbenzene	0.069U	0.069		50.0	55.2	110	86 - 125	51.0	102	8	30
100-42-5	Styrene	0.058U	0.058		50.0	52.5	105	78 - 118	52.3	105	0.4	30
127-18-4	Tetrachloroethene	0.141U	0.141		50.0	52.7	105	80 - 131	53.3	107	1	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150		50.0	51.4	103	81 - 119	52.8	106	3	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112		50.0	52.0	104	71 - 120	49.8	100	4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 473938		**Client ID**	MB473938			LCS473938			LCSD473938		
Prep Batch N/A		**GCAL ID**	1029098			1029099			1029100		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	01/31/2012 13:05			01/31/2012 10:45			01/31/2012 11:08		
		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	0.138U	0.138		50.0	54.6	109	68 - 123	53.9	108	1	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078		50.0	53.8	108	79 - 133	54.9	110	2	30
79-00-5	1,1,2-Trichloroethane	0.179U	0.179		50.0	49.5	99	80 - 114	51.2	102	3	30
75-69-4	Trichlorofluoromethane	0.094U	0.094		50.0	51.9	104	66 - 156	54.0	108	4	30
96-18-4	1,2,3-Trichloropropane	0.063U	0.063		50.0	53.1	106	77 - 115	54.0	108	2	30
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080		50.0	53.4	107	82 - 120	49.6	99	7	30
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053		50.0	54.3	109	83 - 123	52.7	105	3	30
75-01-4	Vinyl chloride	0.104U	0.104		50.0	47.3	95	57 - 153	46.5	93	2	30
95-47-6	o-Xylene	0.077U	0.077		50.0	51.9	104	83 - 121	51.9	104	0	30
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082		50.0	50.7	101	61 - 118	53.5	107	5	30
106-93-4	1,2-Dibromoethane	0.169U	0.169		50.0	51.1	102	80 - 115	52.4	105	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084		50.0	53.1	106	75 - 116	52.9	106	0.4	30
540-59-0	1,2-Dichloroethene(Total)	0.169U	0.169		100	102	102	74 - 128	102	102	0	30
99-87-6	4-Isopropyltoluene	0.175U	0.175		50.0	53.8	108	83 - 125	48.0	96	11	30
1330-20-7	Xylene (total)	0.123U	0.123		150	152	101	74 - 127	151	101	0.7	30
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	0.429		50.0	48.6	97	51 - 137	48.8	98	0.4	30
594-20-7	2,2-Dichloropropane	0.112U	0.112		50.0	54.6	109	77 - 138	54.1	108	0.9	30
76-13-1	Trichlorotrifluoroethane	0.141U	0.141		50.0	55.4	111	74 - 139	56.2	112	1	30
563-58-6	1,1-Dichloropropene	0.071U	0.071		50.0	54.5	109	87 - 127	55.1	110	1	30
142-28-9	1,3-Dichloropropane	0.113U	0.113		50.0	49.5	99	81 - 113	50.4	101	2	30
108-86-1	Bromobenzene	0.095U	0.095		50.0	52.1	104	83 - 115	50.1	100	4	30
95-49-8	2-Chlorotoluene	0.090U	0.090		50.0	54.4	109	81 - 121	52.6	105	3	30
106-43-4	4-Chlorotoluene	0.046U	0.046		50.0	53.8	108	84 - 120	51.5	103	4	30
98-06-6	tert-Butylbenzene	0.058U	0.058		50.0	54.3	109	83 - 126	51.2	102	6	30
135-98-8	sec-Butylbenzene	0.088U	0.088		50.0	55.0	110	86 - 127	49.9	100	10	30
541-73-1	1,3-Dichlorobenzene	0.080U	0.080		50.0	53.9	108	86 - 115	51.5	103	5	30
106-46-7	1,4-Dichlorobenzene	0.058U	0.058		50.0	54.4	109	87 - 113	51.5	103	5	30
104-51-8	n-Butylbenzene	0.068U	0.068		50.0	54.7	109	84 - 124	48.8	98	11	30
95-50-1	1,2-Dichlorobenzene	0.086U	0.086		50.0	54.6	109	85 - 115	52.4	105	4	30
87-68-3	Hexachlorobutadiene	0.347U	0.347		50.0	59.0	118	71 - 133	54.4	109	8	30
91-20-3	Naphthalene	0.175U	0.175		50.0	49.9	100	59 - 125	51.4	103	3	35
75-35-4	1,1-Dichloroethene	0.183U	0.183		50.0	50.8	102	75 - 133	53.1	106	4	20
71-43-2	Benzene	0.049U	0.049		50.0	52.0	104	83 - 124	52.5	105	1	20

GC/MS Volatiles Quality Control Summary

Analytical Batch 473938		**Client ID**	MB473938			LCS473938			LCSD473938		
Prep Batch N/A		**GCAL ID**	1029098			1029099			1029100		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	01/31/2012 13:05			01/31/2012 10:45			01/31/2012 11:08		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.094U	0.094	50.0	53.0	106	85 - 124	52.8	106	0.4	20
108-88-3	Toluene		0.078U	0.078	50.0	50.3	101	86 - 116	49.0	98	3	20
108-90-7	Chlorobenzene		0.055U	0.055	50.0	51.2	102	87 - 115	51.8	104	1	20
Surrogate												
460-00-4	4-Bromofluorobenzene		49.3	99	50	49.5	99	84 - 120	49.4	99		
1868-53-7	Dibromofluoromethane		50.5	101	50	50.4	101	87 - 116	51.4	103		
2037-26-5	Toluene d8		50.6	101	50	46.6	93	86 - 112	48.5	97		
17060-07-0	1,2-Dichloroethane-d4		51.4	103	50	50.5	101	76 - 127	51.9	104		

Analytical Batch 473938		**Client ID**	MW-08-05			MW-08-05-MS			MW-08-05-MSD		
Prep Batch N/A		**GCAL ID**	21201280801			21201280802			21201280803		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	01/31/2012 15:46			01/31/2012 18:49			01/31/2012 19:12		
		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	81 - 119	46.9	94	9	10
71-55-6	1,1,1-Trichloroethane		0.00	0.078	50.0	54.6	109	79 - 133	48.4	97	**12***	11
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.112	50.0	49.3	99	71 - 120	49.2	98	0.2	11
79-00-5	1,1,2-Trichloroethane		0.00	0.179	50.0	49.2	98	80 - 114	46.7	93	5	11
75-34-3	1,1-Dichloroethane		0.00	0.064	50.0	49.2	98	82 - 127	47.4	95	4	10
75-35-4	1,1-Dichloroethene		0.00	0.183	50.0	52.4	105	75 - 133	48.6	97	8	13
563-58-6	1,1-Dichloropropene		0.00	0.071	50.0	52.4	105	87 - 127	48.3	97	8	10
96-18-4	1,2,3-Trichloropropane		0.00	0.063	50.0	51.3	103	77 - 115	51.8	104	1	12
120-82-1	1,2,4-Trichlorobenzene		0.00	0.138	50.0	64.4	**129***	68 - 123	57.9	116	11	11
95-63-6	1,2,4-Trimethylbenzene		0.00	0.080	50.0	53.0	106	82 - 120	46.9	94	**12***	10
96-12-8	1,2-Dibromo-3-chloropropane		0.00	0.082	50.0	52.6	105	61 - 118	54.6	109	4	15
106-93-4	1,2-Dibromoethane		0.00	0.169	50.0	50.0	100	80 - 115	49.7	99	0.6	10
95-50-1	1,2-Dichlorobenzene		0.00	0.086	50.0	52.7	105	85 - 115	48.8	98	8	9
107-06-2	1,2-Dichloroethane		0.00	0.121	50.0	52.2	104	76 - 122	49.8	100	5	11
540-59-0	1,2-Dichloroethene(Total)		0.00	0.169	100	103	103	74 - 128	96.2	96	7	30
78-87-5	1,2-Dichloropropane		0.00	0.114	50.0	50.3	101	81 - 120	47.9	96	5	11

GC/MS Volatiles Quality Control Summary

Analytical Batch	473938	**Client ID**	MW-08-05			MW-08-05-MS			MW-08-05-MSD			
Prep Batch	N/A	**GCAL ID**	21201280801			21201280802			21201280803			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	01/31/2012 15:46			01/31/2012 18:49			01/31/2012 19:12			
		Matrix	Water			Water			Water			
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
108-67-8	1,3,5-Trimethylbenzene		0.00	0.053	50.0	54.9	110	83 - 123	48.5	97	**12***	10
541-73-1	1,3-Dichlorobenzene		0.00	0.080	50.0	53.2	106	86 - 115	47.1	94	**12***	9
142-28-9	1,3-Dichloropropane		0.00	0.113	50.0	47.8	96	81 - 113	46.6	93	3	11
106-46-7	1,4-Dichlorobenzene		0.00	0.058	50.0	53.8	108	87 - 113	47.9	96	**12***	10
594-20-7	2,2-Dichloropropane		0.00	0.112	50.0	52.6	105	77 - 138	46.9	94	11	12
78-93-3	2-Butanone		0.00	0.235	50.0	40.8	82	61 - 127	41.8	84	2	13
95-49-8	2-Chlorotoluene		0.00	0.090	50.0	53.2	106	81 - 121	48.1	96	10	10
591-78-6	2-Hexanone		0.00	0.302	50.0	40.3	81	58 - 125	41.0	82	2	14
106-43-4	4-Chlorotoluene		0.00	0.046	50.0	52.7	105	84 - 120	47.6	95	10	10
99-87-6	4-Isopropyltoluene		0.00	0.175	50.0	55.4	111	83 - 125	46.8	94	**17***	9
108-10-1	4-Methyl-2-pentanone		0.00	0.142	50.0	51.5	103	62 - 125	54.1	108	5	13
67-64-1	Acetone		0.00	0.322	50.0	25.1	**50***	59 - 134	23.9	**48***	5	14
71-43-2	Benzene		0.00	0.049	50.0	50.9	102	83 - 124	46.6	93	9	11
108-86-1	Bromobenzene		0.00	0.095	50.0	50.4	101	83 - 115	45.8	92	10	10
74-97-5	Bromochloromethane		0.00	0.238	50.0	53.3	107	78 - 112	51.4	103	4	10
75-27-4	Bromodichloromethane		0.00	0.071	50.0	53.1	106	76 - 116	48.7	97	9	10
75-25-2	Bromoform		0.00	0.278	50.0	50.6	101	68 - 128	49.5	99	2	11
74-83-9	Bromomethane		0.00	0.276	50.0	62.3	125	55 - 151	50.4	101	21	21
75-15-0	Carbon disulfide		0.00	0.190	50.0	52.8	106	67 - 147	46.5	93	**13***	12
56-23-5	Carbon tetrachloride		0.00	0.056	50.0	52.4	105	74 - 139	48.4	97	8	13
108-90-7	Chlorobenzene		0.00	0.055	50.0	50.4	101	87 - 115	46.2	92	9	9
75-00-3	Chloroethane		0.00	0.279	50.0	49.1	98	54 - 166	47.1	94	4	20
67-66-3	Chloroform		0.00	0.062	50.0	49.0	98	85 - 123	45.5	91	7	10
74-87-3	Chloromethane		0.00	0.076	50.0	48.1	96	55 - 173	46.0	92	4	22
124-48-1	Dibromochloromethane		0.00	0.133	50.0	51.8	104	74 - 116	50.8	102	2	11
74-95-3	Dibromomethane		0.00	0.197	50.0	54.2	108	81 - 116	51.5	103	5	10
75-71-8	Dichlorodifluoromethane		0.00	0.088	50.0	56.1	112	34 - 158	49.8	100	12	22
100-41-4	Ethylbenzene		0.00	0.180	50.0	51.2	102	87 - 118	47.2	94	8	10
87-68-3	Hexachlorobutadiene		0.00	0.347	50.0	70.8	**142***	71 - 133	56.8	114	**22***	12
98-82-8	Isopropylbenzene (Cumene)		0.00	0.058	50.0	53.3	107	87 - 131	46.5	93	**14***	10
74-88-4	Methyl iodide		0.00	0.097	50.0	34.2	**68***	72 - 125	42.6	85	**22***	11
75-09-2	Methylene chloride		0.00	0.102	50.0	49.1	98	69 - 125	47.3	95	4	11
91-20-3	Naphthalene		2.49	0.175	50.0	55.0	105	59 - 125	53.2	101	3	15

GC/MS Volatiles Quality Control Summary

Analytical Batch 473938		**Client ID**	MW-08-05			MW-08-05-MS			MW-08-05-MSD		
Prep Batch N/A		**GCAL ID**	21201280801			21201280802			21201280803		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	01/31/2012 15:46			01/31/2012 18:49			01/31/2012 19:12		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-42-5	Styrene		0.00	0.058	50.0	49.6	99	78 - 118	46.3	93	7	11
127-18-4	Tetrachloroethene		0.00	0.141	50.0	54.5	109	80 - 131	47.0	94	**15***	12
108-88-3	Toluene		0.00	0.078	50.0	48.6	97	86 - 116	44.9	90	8	10
79-01-6	Trichloroethene		0.00	0.094	50.0	51.0	102	85 - 124	46.8	94	9	10
75-69-4	Trichlorofluoromethane		0.00	0.094	50.0	56.9	114	66 - 156	50.4	101	12	15
76-13-1	Trichlorotrifluoroethane		0.00	0.141	50.0	59.4	119	74 - 139	51.6	103	**14***	13
75-01-4	Vinyl chloride		0.00	0.104	50.0	52.2	104	57 - 153	46.8	94	11	22
1330-20-7	Xylene (total)		0.00	0.123	150	151	101	74 - 127	138	92	9	30
156-59-2	cis-1,2-Dichloroethene		0.00	0.104	50.0	51.8	104	81 - 114	48.1	96	7	10
10061-01-5	cis-1,3-Dichloropropene		0.00	0.105	50.0	53.6	107	83 - 119	49.0	98	9	10
136777-61-2	m,p-Xylene		0.00	0.099	100	101	101	83 - 121	92.1	92	9	10
104-51-8	n-Butylbenzene		0.00	0.068	50.0	57.7	115	84 - 124	48.0	96	**18***	10
103-65-1	n-Propylbenzene		0.00	0.069	50.0	55.1	110	86 - 125	46.8	94	**16***	10
95-47-6	o-Xylene		0.00	0.077	50.0	50.3	101	83 - 121	45.6	91	10	10
135-98-8	sec-Butylbenzene		0.00	0.088	50.0	55.8	112	86 - 127	47.1	94	**17***	10
1634-04-4	tert-Butyl methyl ether (MTBE)		0.00	0.084	50.0	51.3	103	75 - 116	50.8	102	1	10
98-06-6	tert-Butylbenzene		0.00	0.058	50.0	56.0	112	83 - 126	47.0	94	**17***	10
156-60-5	trans-1,2-Dichloroethene		0.00	0.096	50.0	51.1	102	82 - 126	48.1	96	6	10
10061-02-6	trans-1,3-Dichloropropene		0.00	0.068	50.0	52.4	105	87 - 123	49.5	99	6	10
110-57-6	trans-1,4-Dichloro-2-butene		0.00	0.429	50.0	44.9	90	51 - 137	43.1	86	4	24
Surrogate												
460-00-4	4-Bromofluorobenzene		49.5	99	50	47.1	94	84 - 120	49.4	99		
1868-53-7	Dibromofluoromethane		50.4	101	50	51.5	103	87 - 116	49.3	99		
2037-26-5	Toluene d8		49.8	100	50	47.4	95	86 - 112	49	98		
17060-07-0	1,2-Dichloroethane-d4		50.6	101	50	51.1	102	76 - 127	50.7	101		

GC/MS Volatiles Quality Control Summary

Analytical Batch 474256	**Client ID**	MB474256	LCS474256	LCSD474256
Prep Batch N/A	**GCAL ID**	1030576	1030577	1030578
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	02/05/2012 14:00	02/05/2012 12:12	02/05/2012 12:33
	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	45.9	92	59 - 134	45.6	91	0.7	30
74-97-5	Bromochloromethane	0.238U	0.238	50.0	50.2	100	78 - 112	47.7	95	5	30
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	51.4	103	76 - 116	48.8	98	5	30
75-25-2	Bromoform	0.278U	0.278	50.0	57.5	115	68 - 128	54.9	110	5	30
74-83-9	Bromomethane	0.276U	0.276	50.0	54.6	109	55 - 151	59.6	119	9	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	50.6	101	67 - 147	46.0	92	10	30
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	52.9	106	74 - 139	48.0	96	10	30
75-00-3	Chloroethane	0.279U	0.279	50.0	53.9	108	54 - 166	48.7	97	10	30
136777-61-2	m,p-Xylene	0.099U	0.099	100	107	107	83 - 121	94.7	95	12	30
67-66-3	Chloroform	0.062U	0.062	50.0	49.9	100	85 - 123	48.6	97	3	30
74-87-3	Chloromethane	0.076U	0.076	50.0	47.5	95	55 - 173	42.7	85	11	30
124-48-1	Dibromochloromethane	0.133U	0.133	50.0	53.6	107	74 - 116	50.7	101	6	30
74-95-3	Dibromomethane	0.197U	0.197	50.0	50.4	101	81 - 116	48.9	98	3	30
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	51.3	103	34 - 158	48.0	96	7	30
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	50.6	101	82 - 127	47.4	95	7	30
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	48.9	98	76 - 122	47.4	95	3	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	49.1	98	81 - 114	47.4	95	4	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	50.6	101	82 - 126	46.7	93	8	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	47.3	95	69 - 125	45.7	91	3	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	52.0	104	81 - 120	48.9	98	6	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	51.5	103	83 - 119	47.9	96	7	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	53.2	106	87 - 123	50.3	101	6	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	52.6	105	87 - 118	47.3	95	11	30
591-78-6	2-Hexanone	0.302U	0.302	50.0	52.3	105	58 - 125	50.3	101	4	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	56.7	113	87 - 131	48.2	96	16	30
78-93-3	2-Butanone	0.235U	0.235	50.0	49.7	99	61 - 127	48.4	97	3	30
74-88-4	Methyl iodide	0.097U	0.097	50.0	43.8	88	72 - 125	44.0	88	0.5	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	52.0	104	62 - 125	49.5	99	5	30
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	51.1	102	86 - 125	44.7	89	13	30
100-42-5	Styrene	0.058U	0.058	50.0	54.1	108	78 - 118	49.0	98	10	30
127-18-4	Tetrachloroethene	0.141U	0.141	50.0	54.8	110	80 - 131	48.3	97	13	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	54.3	109	81 - 119	50.9	102	6	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	50.2	100	71 - 120	49.6	99	1	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 474256		**Client ID**	MB474256			LCS474256			LCSD474256		
Prep Batch N/A		**GCAL ID**	1030576			1030577			1030578		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	02/05/2012 14:00			02/05/2012 12:12			02/05/2012 12:33		
		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	0.138U	0.138		50.0	52.4	105	68 - 123	46.6	93	12	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078		50.0	50.9	102	79 - 133	47.2	94	8	30
79-00-5	1,1,2-Trichloroethane	0.179U	0.179		50.0	47.8	96	80 - 114	46.8	94	2	30
75-69-4	Trichlorofluoromethane	0.094U	0.094		50.0	48.8	98	66 - 156	46.8	94	4	30
96-18-4	1,2,3-Trichloropropane	0.063U	0.063		50.0	50.9	102	77 - 115	49.8	100	2	30
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080		50.0	52.6	105	82 - 120	46.7	93	12	30
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053		50.0	52.2	104	83 - 123	46.3	93	12	30
75-01-4	Vinyl chloride	0.104U	0.104		50.0	46.7	93	57 - 153	44.2	88	6	30
95-47-6	o-Xylene	0.077U	0.077		50.0	54.1	108	83 - 121	48.9	98	10	30
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082		50.0	49.7	99	61 - 118	48.5	97	2	30
106-93-4	1,2-Dibromoethane	0.169U	0.169		50.0	50.5	101	80 - 115	48.9	98	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084		50.0	49.7	99	75 - 116	50.0	100	0.6	30
540-59-0	1,2-Dichloroethene(Total)	0.169U	0.169		100	99.7	100	74 - 128	94.0	94	6	30
99-87-6	4-Isopropyltoluene	0.175U	0.175		50.0	54.4	109	83 - 125	46.7	93	15	30
1330-20-7	Xylene (total)	0.123U	0.123		150	161	107	74 - 127	144	96	11	30
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	0.429		50.0	48.0	96	51 - 137	46.3	93	4	30
594-20-7	2,2-Dichloropropane	0.112U	0.112		50.0	51.2	102	77 - 138	48.2	96	6	30
76-13-1	Trichlorotrifluoroethane	0.141U	0.141		50.0	53.2	106	74 - 139	48.1	96	10	30
563-58-6	1,1-Dichloropropene	0.071U	0.071		50.0	50.3	101	87 - 127	46.2	92	8	30
142-28-9	1,3-Dichloropropane	0.113U	0.113		50.0	50.7	101	81 - 113	49.9	100	2	30
108-86-1	Bromobenzene	0.095U	0.095		50.0	48.9	98	83 - 115	44.5	89	9	30
95-49-8	2-Chlorotoluene	0.090U	0.090		50.0	50.2	100	81 - 121	44.6	89	12	30
106-43-4	4-Chlorotoluene	0.046U	0.046		50.0	49.7	99	84 - 120	45.0	90	10	30
98-06-6	tert-Butylbenzene	0.058U	0.058		50.0	51.2	102	83 - 126	45.2	90	12	30
135-98-8	sec-Butylbenzene	0.088U	0.088		50.0	53.2	106	86 - 127	45.8	92	15	30
541-73-1	1,3-Dichlorobenzene	0.080U	0.080		50.0	50.9	102	86 - 115	45.8	92	11	30
106-46-7	1,4-Dichlorobenzene	0.058U	0.058		50.0	49.8	100	87 - 113	44.9	90	10	30
104-51-8	n-Butylbenzene	0.068U	0.068		50.0	54.5	109	84 - 124	46.0	92	17	30
95-50-1	1,2-Dichlorobenzene	0.086U	0.086		50.0	52.3	105	85 - 115	47.0	94	11	30
87-68-3	Hexachlorobutadiene	0.347U	0.347		50.0	52.5	105	71 - 133	46.8	94	11	30
91-20-3	Naphthalene	0.175U	0.175		50.0	53.7	107	59 - 125	49.9	100	7	35
75-35-4	1,1-Dichloroethene	0.183U	0.183		50.0	49.4	99	75 - 133	45.7	91	8	20
71-43-2	Benzene	0.049U	0.049		50.0	49.7	99	83 - 124	46.3	93	7	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	474256	**Client ID**	MB474256			LCS474256			LCSD474256		
Prep Batch	N/A	**GCAL ID**	1030576			1030577			1030578		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	02/05/2012 14:00			02/05/2012 12:12			02/05/2012 12:33		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.094U	0.094	50.0	49.8	100	85 - 124	45.5	91	9	20
108-88-3	Toluene		0.078U	0.078	50.0	50.4	101	86 - 116	46.9	94	7	20
108-90-7	Chlorobenzene		0.055U	0.055	50.0	52.2	104	87 - 115	47.9	96	9	20
Surrogate												
460-00-4	4-Bromofluorobenzene		49	98	50	53.7	107	84 - 120	52.5	105		
1868-53-7	Dibromofluoromethane		49.7	99	50	50.3	101	87 - 116	50.9	102		
2037-26-5	Toluene d8		50.4	101	50	49.5	99	86 - 112	49.4	99		
17060-07-0	1,2-Dichloroethane-d4		51.1	102	50	50.1	100	76 - 127	48.9	98		

Inorganics Quality Control Summary

Analytical Batch	473835	**Client ID**	MB473789	LCS473789
Prep Batch	473789	**GCAL ID**	1028580	1028581
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	01/28/2012 10:30	01/28/2012 10:30
		Analytical Date	01/30/2012 12:58	01/30/2012 15:57
		Matrix	Water	Water

SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000075U	0.000075	0.00500	0.00543	109	80 - 120

Analytical Batch	473835	**Client ID**	B-7 (72 HOUR)	1028553MS
Prep Batch	473789	**GCAL ID**	21201250705	1028583
Prep Method	SW-846 7470A	**Sample Type**	SAMPLE	MS
		Prep Date	01/28/2012 10:30	01/28/2012 10:30
		Analytical Date	01/30/2012 13:01	01/30/2012 13:04
		Matrix	Water	Water

SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.00014	0.000075	0.00500	0.00449	87	75 - 125

Analytical Batch	473835	**Client ID**	B-7 (72 HOUR)	1028553DUP
Prep Batch	473789	**GCAL ID**	21201250705	1028582
Prep Method	SW-846 7470A	**Sample Type**	SAMPLE	DUP
		Prep Date	01/28/2012 10:30	01/28/2012 10:30
		Analytical Date	01/30/2012 13:01	01/30/2012 13:03
		Matrix	Water	Water

SW-846 7470A		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
7439-97-6	Mercury	0.00013601	0.000075	0.00009	**41***	20

Inorganics Quality Control Summary

Analytical Batch	473845	**Client ID**	MB473788	LCS473788
Prep Batch	473788	**GCAL ID**	1028576	1028577
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	01/28/2012 10:30	01/28/2012 10:30
		Analytical Date	01/30/2012 11:52	01/30/2012 11:59
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.026J	0.024	5.00	5.18	104	80 - 120
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.50	100	80 - 120
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.52	103	80 - 120
7440-39-3	Barium	0.0031J	0.0016	0.50	0.52	103	80 - 120
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.51	101	80 - 120
7440-43-9	Cadmium	0.00010U	0.00010	0.50	0.51	103	80 - 120
7440-70-2	Calcium	0.024U	0.024	5.00	5.16	103	80 - 120
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.51	102	80 - 120
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.51	102	80 - 120
7440-50-8	Copper	0.0017U	0.0017	0.50	0.51	101	80 - 120
7439-89-6	Iron	0.027U	0.027	5.00	5.22	104	80 - 120
7439-92-1	Lead	0.0028U	0.0028	0.50	0.51	102	80 - 120
7439-95-4	Magnesium	0.022J	0.012	5.00	5.24	105	80 - 120
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.51	102	80 - 120
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.50	101	80 - 120
7440-09-7	Potassium	0.041U	0.041	10.0	10.2	102	80 - 120
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.50	101	80 - 120
7440-22-4	Silver	0.00064U	0.00064	0.50	0.50	101	80 - 120
7440-23-5	Sodium	0.062J	0.056	20.0	20.6	103	80 - 120
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.51	101	80 - 120
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.51	102	80 - 120
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.51	102	80 - 120

Inorganics Quality Control Summary

Analytical Batch	473845	**Client ID**	B-7 (72 HOUR)	1028553MS
Prep Batch	473788	**GCAL ID**	21201250705	1028579
Prep Method	SW-846	**Sample Type**	SAMPLE	MS
	3010A	**Prep Date**	01/28/2012 10:30	01/28/2012 10:30
		Analytical Date	01/30/2012 12:06	01/30/2012 12:21
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.32	0.024	5.00	5.80	109	75 - 125
7440-36-0	Antimony	0.0	0.0040	0.50	0.53	107	75 - 125
7440-38-2	Arsenic	0.0	0.0035	0.50	0.56	111	75 - 125
7440-39-3	Barium	0.17	0.0016	0.50	0.69	105	75 - 125
7440-41-7	Beryllium	0.0	0.000082	0.50	0.54	108	75 - 125
7440-43-9	Cadmium	0.0	0.00010	0.50	0.52	104	75 - 125
7440-70-2	Calcium	104	0.024	5.00	112	**164***	75 - 125
7440-47-3	Chromium	0.0	0.00034	0.50	0.53	106	75 - 125
7440-48-4	Cobalt	0.0	0.00052	0.50	0.52	104	75 - 125
7440-50-8	Copper	0.0018	0.0017	0.50	0.52	104	75 - 125
7439-89-6	Iron	0.0	0.027	5.00	5.47	109	75 - 125
7439-92-1	Lead	0.0	0.0028	0.50	0.53	106	75 - 125
7439-95-4	Magnesium	0.045	0.012	5.00	5.35	106	75 - 125
7439-96-5	Manganese	0.0052	0.00083	0.50	0.52	104	75 - 125
7440-02-0	Nickel	0.0	0.00084	0.50	0.51	103	75 - 125
7440-09-7	Potassium	11.5	0.041	10.0	22.6	111	75 - 125
7782-49-2	Selenium	0.0	0.0038	0.50	0.54	109	75 - 125
7440-22-4	Silver	0.0	0.00064	0.50	0.53	106	75 - 125
7440-23-5	Sodium	10.1	0.056	20.0	32.0	110	75 - 125
7440-28-0	Thallium	0.0	0.0026	0.50	0.53	106	75 - 125
7440-62-2	Vanadium	0.0	0.0012	0.50	0.54	108	75 - 125
7440-66-6	Zinc	0.0083	0.0059	0.50	0.53	105	75 - 125

Inorganics Quality Control Summary

Analytical Batch	473845	**Client ID**	B-7 (72 HOUR)	1028553DUP
Prep Batch	473788	**GCAL ID**	21201250705	1028578
Prep Method	SW-846	**Sample Type**	SAMPLE	DUP
	3010A	**Prep Date**	01/28/2012 10:30	01/28/2012 10:30
		Analytical Date	01/30/2012 12:06	01/30/2012 12:13
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
7429-90-5	Aluminum	0.32244382	0.024	0.32	0.5	20
7440-36-0	Antimony	0.0	0.0040	0.0	0	20
7440-38-2	Arsenic	0.0	0.0035	0.0	0	20
7440-39-3	Barium	0.16997533	0.0016	0.17	0.8	20
7440-41-7	Beryllium	0.0	0.000082	0.0	0	20
7440-43-9	Cadmium	0.0	0.00010	0.0	0	20
7440-70-2	Calcium	103.606215	0.024	105	1	20
7440-47-3	Chromium	0.0	0.00034	0.0	0	20
7440-48-4	Cobalt	0.0	0.00052	0.0	0	20
7440-50-8	Copper	0.00179454	0.0017	0.0	**200***	20
7439-89-6	Iron	0.0	0.027	0.0	0	20
7439-92-1	Lead	0.0	0.0028	0.0	0	20
7439-95-4	Magnesium	0.04457096	0.012	0.039	14	20
7439-96-5	Manganese	0.00520163	0.00083	0.0	**200***	20
7440-02-0	Nickel	0.0	0.00084	0.0	0	20
7440-09-7	Potassium	11.4786437	0.041	11.7	2	20
7782-49-2	Selenium	0.0	0.0038	0.0	0	20
7440-22-4	Silver	0.0	0.00064	0.0	0	20
7440-23-5	Sodium	10.0866755	0.056	10.1	0.6	20
7440-28-0	Thallium	0.0	0.0026	0.0	0	20
7440-62-2	Vanadium	0.0	0.0012	0.0	0	20
7440-66-6	Zinc	0.00831489	0.0059	0.0059	**33***	20

Inorganics Quality Control Summary

Analytical Batch	474018	**Client ID**	MB473743	LCS473743
Prep Batch	473743	**GCAL ID**	1028297	1028298
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	01/28/2012 09:00	01/28/2012 09:00
		Analytical Date	02/01/2012 10:43	02/01/2012 10:51
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.024U	0.024	5.00	5.16	103	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.50	100	88 - 108
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.52	104	88 - 109
7440-39-3	Barium	0.0016U	0.0016	0.50	0.50	100	92 - 112
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.50	101	89 - 113
7440-43-9	Cadmium	0.00010U	0.00010	0.50	0.50	101	88 - 111
7440-70-2	Calcium	0.024U	0.024	5.00	5.10	102	90 - 111
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.50	99	90 - 113
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.50	99	89 - 111
7440-50-8	Copper	0.0017U	0.0017	0.50	0.49	98	86 - 112
7439-89-6	Iron	0.027U	0.027	5.00	5.17	103	89 - 116
7439-92-1	Lead	0.0028U	0.0028	0.50	0.51	101	89 - 109
7439-95-4	Magnesium	0.020J	0.012	5.00	5.20	104	92 - 113
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.50	99	90 - 110
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.51	101	89 - 111
7440-09-7	Potassium	0.041U	0.041	10.0	9.85	99	89 - 114
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.52	103	90 - 110
7440-22-4	Silver	0.00064U	0.00064	0.50	0.50	100	86 - 120
7440-23-5	Sodium	0.056U	0.056	20.0	20.1	100	90 - 117
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.50	100	88 - 108
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.49	99	91 - 111
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.51	101	84 - 111

Inorganics Quality Control Summary

Analytical Batch	474018	**Client ID**	MW-08-05	MW-08-05 MS	MW-08-05 MSD
Prep Batch	473743	**GCAL ID**	21201270901	21201270902	21201270903
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	01/28/2012 09:00	01/28/2012 09:00	01/28/2012 09:00
		Analytical Date	02/01/2012 10:57	02/01/2012 11:04	02/01/2012 11:10
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.024	5.00	5.21	104	83 - 119	5.08	102	2	25
7440-36-0	Antimony	0.0	0.0040	0.50	0.55	110	81 - 124	0.54	108	2	25
7440-38-2	Arsenic	0.0058	0.0035	0.50	0.57	113	84 - 124	0.56	112	0.9	25
7440-39-3	Barium	0.016	0.0016	0.50	0.52	100	85 - 120	0.51	99	0.5	25
7440-41-7	Beryllium	0.0	0.000082	0.50	0.51	102	79 - 121	0.51	102	0.4	25
7440-43-9	Cadmium	0.0018	0.00010	0.50	0.49	97	82 - 119	0.49	97	0.4	25
7440-70-2	Calcium	611	0.024	5.00	650	**786***	48 - 153	657	**928***	1	25
7440-47-3	Chromium	0.00059	0.00034	0.50	0.50	100	73 - 135	0.50	99	0.8	25
7440-48-4	Cobalt	0.00062	0.00052	0.50	0.51	101	82 - 119	0.50	100	1	25
7440-50-8	Copper	0.0084	0.0017	0.50	0.55	109	82 - 129	0.55	107	0.9	25
7439-89-6	Iron	0.074	0.027	5.00	5.29	104	52 - 155	5.16	102	2	25
7439-92-1	Lead	0.0	0.0028	0.50	0.50	100	62 - 146	0.49	99	1	25
7439-95-4	Magnesium	48.0	0.012	5.00	56.4	**167***	62 - 146	56.2	**164***	0.2	25
7439-96-5	Manganese	0.033	0.00083	0.50	0.54	101	79 - 121	0.54	101	0.4	25
7440-02-0	Nickel	0.00098	0.00084	0.50	0.49	99	84 - 120	0.50	99	0.7	25
7440-09-7	Potassium	6.40	0.041	10.0	17.4	110	76 - 132	17.4	111	0.5	25
7782-49-2	Selenium	0.0	0.0038	0.50	0.55	110	71 - 140	0.55	110	0.3	25
7440-22-4	Silver	0.0	0.00064	0.50	0.52	103	75 - 141	0.51	102	0.8	25
7440-23-5	Sodium	20.4	0.056	20.0	42.9	113	70 - 203	43.4	115	1	25
7440-28-0	Thallium	0.0	0.0026	0.50	0.50	101	90 - 116	0.50	100	0.5	25
7440-62-2	Vanadium	0.031	0.0012	0.50	0.55	103	85 - 120	0.54	103	0.6	25
7440-66-6	Zinc	0.0	0.0059	0.50	0.54	108	60 - 137	0.53	107	1	25

General Chemistry Quality Control Summary

Analytical Batch 473955	**Client ID**	MB473955			LCS473955		
Prep Batch N/A	**GCAL ID**	1029181			1029182		
	Sample Type	Method Blank			LCS		
	Analytical Date	01/31/2012 14:30			01/31/2012 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	957	95.7	90 - 110

Analytical Batch 473955	**Client ID**	MW-08-05		1028035DUP		
Prep Batch N/A	**GCAL ID**	21201270901		1029682		
	Sample Type	SAMPLE		DUP		
	Analytical Date	01/31/2012 14:30		01/31/2012 14:30		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2576	7.00	2620	1.7	5

General Chemistry Quality Control Summary

Analytical Batch 473795	**Client ID**	MB473795			LCS473795		
Prep Batch N/A	**GCAL ID**	1028600			1028601		
	Sample Type	Method Blank			LCS		
	Analytical Date	01/28/2012 12:02			01/28/2012 12:20		
	Matrix	Water			Water		
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.078U	0.078	2.50	2.59	104	80 - 120
14797-65-0	Nitrite	0.059U	0.059	2.50	2.62	105	80 - 120
16984-48-8	Fluoride	0.086U	0.086	2.50	2.70	108	80 - 120
14808-79-8	Sulfate	0.079U	0.079	5.00	5.28	106	80 - 120

Analytical Batch 473795	**Client ID**	MW-08-02			1028562MS			1028562MSD			
Prep Batch N/A	**GCAL ID**	21201280808			1028602			1028603			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	01/28/2012 14:23			01/28/2012 14:41			01/28/2012 15:34			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14808-79-8	Sulfate	2160	79.0	5000	7160	100	75 - 125	7180	100	0.18	25

Analytical Batch 473795	**Client ID**	MW-08-02			1028562MS			1028562MSD			
Prep Batch N/A	**GCAL ID**	21201280808			1028602			1028603			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	01/28/2012 13:31			01/28/2012 13:48			01/28/2012 14:06			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16984-48-8	Fluoride	7.31	1.72	50.0	60.5	106	75 - 125	59.9	105	1	25
14797-65-0	Nitrite	0.000	1.18	50.0	53.5	107	75 - 125	53.2	106	0.68	25

General Chemistry Quality Control Summary

Analytical Batch 473795	**Client ID**	MW-08-02			1028562MS			1028562MSD			
Prep Batch N/A	**GCAL ID**	21201280808			1028602			1028603			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	01/28/2012 12:38			01/28/2012 12:55			01/28/2012 13:13			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		0.090	0.078	2.50	2.82	109	75 - 125	2.80	108	0.68	25

Analytical Batch 474116	**Client ID**	MB474116			LCS474116		
Prep Batch N/A	**GCAL ID**	1029882			1029883		
	Sample Type	Method Blank			LCS		
	Analytical Date	02/02/2012 12:46			02/02/2012 13:04		
	Matrix	Water			Water		
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6 Chloride		0.021U	0.021	2.50	2.74	109	80 - 120

Analytical Batch 474116	**Client ID**	MW-08-02			1028562MS			1028562MSD			
Prep Batch N/A	**GCAL ID**	21201280808			1029884			1029885			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	02/02/2012 15:25			02/02/2012 16:18			02/02/2012 16:36			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6 Chloride		73.1	2.10	250	351	111	75 - 125	352	112	0.19	25

NATIONVIEW | 4771 | 212012808 | 02/07/12

Page: 1 of 1

Project No: 8100004

COC Number(1): 01262012-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q1)

Client Name: USACE - Omaha District

Collected by: Wyeth Bowdoin / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Flouride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	TAL Metals [Total] (6010B/7470A)	TDS (SM19 2540C)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)							Quality Assurance Samples (6)				
MW-08-05	MW-08-05	1/25/2012	1410	-	N	1	WG	3	X									1	1
MW-08-05-MS	MW-08-05	1/25/2012	1410	-	MS	1	WG	3	X									1	2
MW-08-05-MSD	MW-08-05	1/25/2012	1410	-	SD	1	WG	3	X									1	3
MW-08-03	MW-08-03	1/25/2012	1620		N	1	WG	3	X									1	4
MW-08-07	MW-08-07	1/26/2012	1000		N	1	WG	3	X									1	5
MW-08-01	MW-08-01	1/26/2012	1140	-	N	1	WG	3	X									1	6
MW-08-01A	MW-08-01	1/26/2012	1140	-	FD	1	WG	3	X									1	7
MW-08-02	MW-08-02	1/26/2012	1530	-	N	1	WG	7	X	X	X	X	X					1	8
Trip Blank				-	TB	1	WQ	3	X								1325060	1	9
				-															
				-															

COMMENTS: **Dissolved metals samples filtered in the field.**

4.7°C

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. J. McNil	1/27/2012	1500	1. Fedex		
2. Fedex	1/30/12	0910	2. [signature]	1/30/12	0910
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx

Analytical Lab:

Lab Recipient:

Shipped No.:

Airbill Number: 7931 6468 0232

Delivery Location:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 212012808

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 3 - SD-08

Received by: Pfeifer, Ben J.

Received Date/Time: 1/28/2012 9:10:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 1

Cooler tracking numbers(s): 7931 6468 0232

Cooler temperature(s): 4.7°C

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
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments:

D-3

LTM Quarter 2 (Apr 2012, NationView)

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 05/09/2012

GCAL Report 212042709

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project SD-08 Qtrly GW Sampling (Q2)

CASE NARRATIVE

Client: NationView LLC **Report:** 212042709

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 479752, n-Propylbenzene exhibited a % D value of 20.7 in the CCV. Hexachlorobutadiene exhibited a % D value of 23.5 in the CCV. Hexachlorobutadiene and n-Propylbenzene were not detected during sample analysis.

METALS

In the SW-846 6010B analysis, a chemical or physical interference necessitated a dilution for all samples. This is reflected in the elevated reporting limits.

The Dissolved Sodium and Calcium concentration is greater than total concentration of these elements in sample 21204270901 (MW-08-01). This is attributed to separate aliquots of sample.

The Dissolved Sodium concentration is greater than total concentration of this element in sample 21204270902 (MW-08-01A), 21204270903 (MW-08-02), 21204270905 (MW-08-04), 21204270908 (MW-08-07) and 21204270911 (SWMU183-MW03). This is attributed to separate aliquots of sample.

In the SW-846 6010B analysis, a chemical or physical interference necessitated a dilution for samples 21204270913 (S10-MW01-MSD) and 21204270911 (SWMU183-MW03). This is reflected in the elevated reporting limits.

In the SW-846 6010B Dissolved analysis for prep batch 479637, the MS and/or MSD recovery is outside the control limits for Thallium. 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 94%. The MS/MSD 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 6010B analysis for prep batch 479638, the MS/MSD recoveries are not applicable for Calcium, Sodium and Magnesium because the sample concentration is greater than four times the spike concentration.

CONVENTIONALS

In the EPA 300.0 analysis, samples were received insufficient time for analysis; therefore samples were analyzed outside of holding time. The client was notified.

In the EPA 300.0 analysis, samples 21204270911 (SWMU183-MW03), 21204270910 (S10-MW01), 21204270912 (S10-MW01-MS) and 21204270913 (S10-MW01-MSD) had to be diluted in order to bracket the concentration within the calibration range of the instrument.

In the SM 2540 C analysis, sample 21204270909 (MW-08-08) had to be diluted prior to filtration in order not to exceed the maximum residue allowed by the method.

In the EPA 300.0 analysis, a chemical or physical interference necessitated a dilution for samples 21204270910 (S10-MW01), 21204270912 (S10-MW01-MS), 21204270913 (S10-MW01-MSD) and 21204270911 (SWMU183-MW03). This is reflected in the elevated reporting limit.

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
Technical Director
GCAL REPORT 212042709

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270901	MW-08-01	Water	04/25/2012 11:10	04/27/2012 09:35
21204270902	MW-08-01A	Water	04/25/2012 11:10	04/27/2012 09:35
21204270903	MW-08-02	Water	04/25/2012 10:15	04/27/2012 09:35
21204270904	MW-08-03	Water	04/25/2012 08:15	04/27/2012 09:35
21204270905	MW-08-04	Water	04/24/2012 14:00	04/27/2012 09:35
21204270906	MW-08-05	Water	04/24/2012 15:45	04/27/2012 09:35
21204270907	MW-08-06	Water	04/24/2012 11:20	04/27/2012 09:35
21204270908	MW-08-07	Water	04/25/2012 09:15	04/27/2012 09:35
21204270909	MW-08-08	Water	04/24/2012 12:30	04/27/2012 09:35
21204270910	S10-MW01	Water	04/25/2012 15:00	04/27/2012 09:35
21204270911	SWMU183-MW03	Water	04/25/2012 13:30	04/27/2012 09:35
21204270912	S10-MW01-MS	Water	04/25/2012 15:00	04/27/2012 09:35
21204270913	S10-MW01-MSD	Water	04/25/2012 15:00	04/27/2012 09:35
21204270914	TRIP BLANK	Water	04/25/2012 00:00	04/27/2012 09:35
21204270915	TRIP BLANK	Water	04/25/2012 00:00	04/27/2012 09:35

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270901	**MW-08-01**	Water	04/25/2012 11:10	04/27/2012 09:35

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0099J	0.010	0.0032	mg/L
7440-70-2	Calcium	470	0.20	0.049	mg/L
7439-89-6	Iron	5.33	0.20	0.053	mg/L
7439-95-4	Magnesium	590	0.20	0.024	mg/L
7439-96-5	Manganese	1.85	0.015	0.0017	mg/L
7440-09-7	Potassium	4.42	1.00	0.081	mg/L
7440-22-4	Silver	0.0034J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.012J	0.020	0.0025	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1620	25.0	1.39	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.11J	0.20	0.047	mg/L
7440-39-3	Barium	0.014	0.010	0.0032	mg/L
7440-43-9	Cadmium	0.00037J	0.010	0.00021	mg/L
7440-70-2	Calcium	455	0.20	0.049	mg/L
7440-47-3	Chromium	0.0039J	0.020	0.00067	mg/L
7440-50-8	Copper	0.029	0.010	0.0034	mg/L
7439-89-6	Iron	8.19	0.10	0.053	mg/L
7439-95-4	Magnesium	608	0.20	0.024	mg/L
7439-96-5	Manganese	2.02	0.015	0.0017	mg/L
7440-02-0	Nickel	0.0058J	0.040	0.0017	mg/L
7440-09-7	Potassium	6.48	1.00	0.081	mg/L
7440-22-4	Silver	0.0056J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.074	0.020	0.0025	mg/L
7440-66-6	Zinc	0.013J	0.020	0.012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1530	25.0	1.39	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00010J	0.00020	0.000075	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00011J	0.00020	0.000075	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270901	**MW-08-01**	Water	04/25/2012 11:10	04/27/2012 09:35

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	28.3	5.00	0.119	ug/L
78-87-5	1,2-Dichloropropane	5.47	5.00	0.150	ug/L
78-93-3	2-Butanone	37.1	5.00	0.362	ug/L
67-64-1	Acetone	71.7	5.00	0.399	ug/L
71-43-2	Benzene	0.332J	5.00	0.099	ug/L
135-98-8	sec-Butylbenzene	3.21J	5.00	0.111	ug/L
98-06-6	tert-Butylbenzene	3.73J	5.00	0.097	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	10400	10.0	7.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270902	**MW-08-01A**	Water	04/25/2012 11:10	04/27/2012 09:35

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.11J	0.20	0.047	mg/L
7440-38-2	Arsenic	0.015J	0.020	0.0070	mg/L
7440-39-3	Barium	0.015	0.010	0.0032	mg/L
7440-43-9	Cadmium	0.00050J	0.010	0.00021	mg/L
7440-70-2	Calcium	484	0.20	0.049	mg/L
7440-47-3	Chromium	0.0041J	0.020	0.00067	mg/L
7440-50-8	Copper	0.024	0.010	0.0034	mg/L
7439-89-6	Iron	9.23	0.10	0.053	mg/L
7439-95-4	Magnesium	602	0.20	0.024	mg/L
7439-96-5	Manganese	2.00	0.015	0.0017	mg/L
7440-02-0	Nickel	0.0041J	0.040	0.0017	mg/L
7440-09-7	Potassium	6.41	1.00	0.081	mg/L
7440-22-4	Silver	0.0058J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.079	0.020	0.0025	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1540	25.0	1.39	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0091J	0.010	0.0032	mg/L
7440-70-2	Calcium	453	0.20	0.049	mg/L
7439-89-6	Iron	5.34	0.10	0.053	mg/L
7439-95-4	Magnesium	570	0.20	0.024	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270902	**MW-08-01A**	Water	04/25/2012 11:10	04/27/2012 09:35

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-96-5	Manganese	1.79	0.015	0.0017	mg/L
7440-09-7	Potassium	4.58	1.00	0.081	mg/L
7440-22-4	Silver	0.0060J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.010J	0.020	0.0025	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1590	25.0	1.39	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00009J	0.00020	0.000075	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	27.6	5.00	0.119	ug/L
78-87-5	1,2-Dichloropropane	5.62	5.00	0.150	ug/L
78-93-3	2-Butanone	35.4	5.00	0.362	ug/L
67-64-1	Acetone	49.2	5.00	0.399	ug/L
71-43-2	Benzene	0.438J	5.00	0.099	ug/L
135-98-8	sec-Butylbenzene	3.18J	5.00	0.111	ug/L
98-06-6	tert-Butylbenzene	3.76J	5.00	0.097	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	10700	10.0	7.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270903	**MW-08-02**	Water	04/25/2012 10:15	04/27/2012 09:35

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00011J	0.00020	0.000075	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270903	**MW-08-02**	Water	04/25/2012 10:15	04/27/2012 09:35

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.14J	0.20	0.047	mg/L
7440-38-2	Arsenic	0.018J	0.020	0.0070	mg/L
7440-39-3	Barium	0.014	0.010	0.0032	mg/L
7440-43-9	Cadmium	0.00090J	0.010	0.00021	mg/L
7440-70-2	Calcium	597	0.20	0.049	mg/L
7440-47-3	Chromium	0.0019J	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0022J	0.020	0.0010	mg/L
7440-50-8	Copper	0.032	0.010	0.0034	mg/L
7439-89-6	Iron	0.59	0.10	0.053	mg/L
7439-95-4	Magnesium	162	0.20	0.024	mg/L
7439-96-5	Manganese	0.98	0.015	0.0017	mg/L
7440-02-0	Nickel	0.0069J	0.040	0.0017	mg/L
7440-09-7	Potassium	3.98	1.00	0.081	mg/L
7440-22-4	Silver	0.0047J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.075	0.020	0.0025	mg/L
7440-66-6	Zinc	0.018J	0.020	0.012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	107	2.00	0.11	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.013J	0.020	0.0070	mg/L
7440-39-3	Barium	0.0093J	0.010	0.0032	mg/L
7440-70-2	Calcium	557	0.20	0.049	mg/L
7439-89-6	Iron	0.33	0.10	0.053	mg/L
7439-95-4	Magnesium	152	0.20	0.024	mg/L
7439-96-5	Manganese	0.80	0.015	0.0017	mg/L
7440-09-7	Potassium	3.03	1.00	0.081	mg/L
7440-22-4	Silver	0.0036J	0.010	0.0013	mg/L
7440-23-5	Sodium	114	2.00	0.11	mg/L
7440-62-2	Vanadium	0.021	0.020	0.0025	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00011J	0.00020	0.000075	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	11.2	5.00	0.119	ug/L
67-64-1	Acetone	2.60J	5.00	0.399	ug/L
71-43-2	Benzene	0.211J	5.00	0.099	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270903	**MW-08-02**	Water	04/25/2012 10:15	04/27/2012 09:35

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3510	10.0	7.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270904	**MW-08-03**	Water	04/25/2012 08:15	04/27/2012 09:35

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00013J	0.00020	0.000075	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0044J	0.010	0.0032	mg/L
7440-70-2	Calcium	512	0.20	0.049	mg/L
7439-95-4	Magnesium	533	0.20	0.024	mg/L
7440-09-7	Potassium	16.4	1.00	0.081	mg/L
7440-22-4	Silver	0.0072J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.063	0.020	0.0025	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1850	25.0	1.39	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00013J	0.00020	0.000075	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.073J	0.20	0.047	mg/L
7440-38-2	Arsenic	0.011J	0.020	0.0070	mg/L
7440-39-3	Barium	0.0077J	0.010	0.0032	mg/L
7440-70-2	Calcium	606	0.20	0.049	mg/L
7440-47-3	Chromium	0.0049J	0.020	0.00067	mg/L
7440-50-8	Copper	0.039	0.010	0.0034	mg/L
7439-95-4	Magnesium	651	0.20	0.024	mg/L
7439-96-5	Manganese	0.0055J	0.015	0.0017	mg/L
7440-02-0	Nickel	0.0089J	0.040	0.0017	mg/L
7440-09-7	Potassium	24.4	1.00	0.081	mg/L
7440-22-4	Silver	0.0049J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.12	0.020	0.0025	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270904	**MW-08-03**	Water	04/25/2012 08:15	04/27/2012 09:35

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1980	25.0	1.39	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	2.25J	5.00	0.399	ug/L
67-66-3	Chloroform	0.937J	5.00	0.109	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	12300	10.0	7.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270905	**MW-08-04**	Water	04/24/2012 14:00	04/27/2012 09:35

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.12J	0.20	0.047	mg/L
7440-39-3	Barium	0.012	0.010	0.0032	mg/L
7440-70-2	Calcium	469	0.20	0.049	mg/L
7440-47-3	Chromium	0.0023J	0.020	0.00067	mg/L
7440-50-8	Copper	0.030	0.010	0.0034	mg/L
7439-89-6	Iron	0.14J	0.20	0.053	mg/L
7439-95-4	Magnesium	264	0.20	0.024	mg/L
7439-96-5	Manganese	0.0028J	0.015	0.0017	mg/L
7440-02-0	Nickel	0.0063J	0.040	0.0017	mg/L
7440-09-7	Potassium	18.7	1.00	0.081	mg/L
7440-22-4	Silver	0.0041J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.11	0.020	0.0025	mg/L
7440-66-6	Zinc	0.016J	0.020	0.012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	607	2.00	0.11	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00012J	0.00020	0.000075	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270905	**MW-08-04**	Water	04/24/2012 14:00	04/27/2012 09:35

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00010J	0.00020	0.000075	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0080J	0.010	0.0032	mg/L
7440-70-2	Calcium	456	0.20	0.049	mg/L
7439-95-4	Magnesium	245	0.20	0.024	mg/L
7440-09-7	Potassium	16.6	1.00	0.081	mg/L
7440-22-4	Silver	0.0077J	0.010	0.0013	mg/L
7440-23-5	Sodium	929	2.00	0.11	mg/L
7440-62-2	Vanadium	0.053	0.020	0.0025	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.23J	5.00	0.399	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	6060	10.0	7.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270906	**MW-08-05**	Water	04/24/2012 15:45	04/27/2012 09:35

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.014	0.010	0.0032	mg/L
7440-70-2	Calcium	570	0.20	0.049	mg/L
7439-95-4	Magnesium	55.1	0.20	0.024	mg/L
7439-96-5	Manganese	0.024	0.015	0.0017	mg/L
7440-09-7	Potassium	6.26	1.00	0.081	mg/L
7440-22-4	Silver	0.0039J	0.010	0.0013	mg/L
7440-23-5	Sodium	55.8	2.00	0.11	mg/L
7440-62-2	Vanadium	0.016J	0.020	0.0025	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00012J	0.00020	0.000075	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270906	**MW-08-05**	Water	04/24/2012 15:45	04/27/2012 09:35

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.18J	0.20	0.047	mg/L
7440-39-3	Barium	0.019	0.010	0.0032	mg/L
7440-43-9	Cadmium	0.00062J	0.010	0.00021	mg/L
7440-70-2	Calcium	610	0.20	0.049	mg/L
7440-47-3	Chromium	0.00072J	0.020	0.00067	mg/L
7440-50-8	Copper	0.036	0.010	0.0034	mg/L
7439-89-6	Iron	0.38	0.10	0.053	mg/L
7439-95-4	Magnesium	72.6	0.20	0.024	mg/L
7439-96-5	Manganese	0.067	0.015	0.0017	mg/L
7440-02-0	Nickel	0.0046J	0.040	0.0017	mg/L
7440-09-7	Potassium	8.71	1.00	0.081	mg/L
7440-22-4	Silver	0.0036J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.059	0.020	0.0025	mg/L
7440-66-6	Zinc	0.019J	0.020	0.012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	56.5	2.00	0.11	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00014J	0.00020	0.000075	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	4.61J	5.00	0.119	ug/L
67-64-1	Acetone	0.759J	5.00	0.399	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2850	10.0	7.00	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270907	**MW-08-06**	Water	04/24/2012 11:20	04/27/2012 09:35

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00009J	0.00020	0.000075	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.0088J	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.012J	0.020	0.0070	mg/L
7440-39-3	Barium	0.0093J	0.010	0.0032	mg/L
7440-70-2	Calcium	539	0.20	0.049	mg/L
7440-47-3	Chromium	0.0042J	0.020	0.00067	mg/L
7440-50-8	Copper	0.022	0.010	0.0034	mg/L
7439-89-6	Iron	0.69	0.10	0.053	mg/L
7439-95-4	Magnesium	922	0.20	0.024	mg/L
7440-02-0	Nickel	0.0032J	0.040	0.0017	mg/L
7440-09-7	Potassium	32.9	1.00	0.081	mg/L
7440-22-4	Silver	0.0042J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.12	0.020	0.0025	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4710	25.0	1.39	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00011J	0.00020	0.000075	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0059J	0.010	0.0032	mg/L
7440-70-2	Calcium	476	0.20	0.049	mg/L
7439-95-4	Magnesium	768	0.20	0.024	mg/L
7440-09-7	Potassium	21.7	1.00	0.081	mg/L
7440-22-4	Silver	0.0050J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.054	0.020	0.0025	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4050	25.0	1.39	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270907	MW-08-06	Water	04/24/2012 11:20	04/27/2012 09:35

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.51J	5.00	0.399	ug/L
67-66-3	Chloroform	0.504J	5.00	0.109	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	19400	10.0	7.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270908	MW-08-07	Water	04/25/2012 09:15	04/27/2012 09:35

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00008J	0.00020	0.000075	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.25	0.20	0.047	mg/L
7440-38-2	Arsenic	0.039	0.020	0.0070	mg/L
7440-39-3	Barium	0.016	0.010	0.0032	mg/L
7440-43-9	Cadmium	0.00064J	0.010	0.00021	mg/L
7440-70-2	Calcium	630	0.20	0.049	mg/L
7440-47-3	Chromium	0.0028J	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0044J	0.020	0.0010	mg/L
7440-50-8	Copper	0.016	0.010	0.0034	mg/L
7439-89-6	Iron	0.16	0.10	0.053	mg/L
7439-95-4	Magnesium	185	0.20	0.024	mg/L
7439-96-5	Manganese	1.71	0.015	0.0017	mg/L
7440-02-0	Nickel	0.0095J	0.040	0.0017	mg/L
7440-09-7	Potassium	6.19	1.00	0.081	mg/L
7440-22-4	Silver	0.0030J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.089	0.020	0.0025	mg/L
7440-66-6	Zinc	0.013J	0.020	0.012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	369	2.00	0.11	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.029	0.020	0.0070	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270908	**MW-08-07**	Water	04/25/2012 09:15	04/27/2012 09:35

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.010J	0.010	0.0032	mg/L
7440-70-2	Calcium	584	0.20	0.049	mg/L
7440-48-4	Cobalt	0.0014J	0.020	0.0010	mg/L
7439-95-4	Magnesium	176	0.20	0.024	mg/L
7439-96-5	Manganese	1.37	0.015	0.0017	mg/L
7440-02-0	Nickel	0.0020J	0.040	0.0017	mg/L
7440-09-7	Potassium	4.82	1.00	0.081	mg/L
7440-22-4	Silver	0.0054J	0.010	0.0013	mg/L
7440-23-5	Sodium	524	2.00	0.11	mg/L
7440-62-2	Vanadium	0.040	0.020	0.0025	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00012J	0.00020	0.000075	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	52.5	5.00	0.119	ug/L
78-87-5	1,2-Dichloropropane	0.915J	5.00	0.150	ug/L
67-64-1	Acetone	1.70J	5.00	0.399	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	4020	10.0	7.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270909	**MW-08-08**	Water	04/24/2012 12:30	04/27/2012 09:35

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00011J	0.00020	0.000075	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.054J	0.20	0.047	mg/L
7440-38-2	Arsenic	0.0072J	0.020	0.0070	mg/L
7440-39-3	Barium	0.012	0.010	0.0032	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270909	**MW-08-08**	Water	04/24/2012 12:30	04/27/2012 09:35

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	676	0.20	0.049	mg/L
7440-47-3	Chromium	0.0021J	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0012J	0.020	0.0010	mg/L
7440-50-8	Copper	0.016	0.010	0.0034	mg/L
7439-95-4	Magnesium	1480	0.20	0.024	mg/L
7439-96-5	Manganese	0.25	0.015	0.0017	mg/L
7440-02-0	Nickel	0.0034J	0.040	0.0017	mg/L
7440-09-7	Potassium	50.5	1.00	0.081	mg/L
7782-49-2	Selenium	0.0097J	0.080	0.0076	mg/L
7440-22-4	Silver	0.0043J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.085	0.020	0.0025	mg/L
7440-66-6	Zinc	0.030	0.020	0.012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	6460	25.0	1.39	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0093J	0.010	0.0032	mg/L
7440-70-2	Calcium	620	0.20	0.049	mg/L
7440-48-4	Cobalt	0.0019J	0.020	0.0010	mg/L
7440-50-8	Copper	0.0076J	0.010	0.0034	mg/L
7439-95-4	Magnesium	1310	0.20	0.024	mg/L
7439-96-5	Manganese	0.22	0.015	0.0017	mg/L
7440-09-7	Potassium	41.1	1.00	0.081	mg/L
7440-22-4	Silver	0.0091J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.047	0.020	0.0025	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	6020	25.0	1.39	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00010J	0.00020	0.000075	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.01J	5.00	0.399	ug/L
67-66-3	Chloroform	0.435J	5.00	0.109	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270909	**MW-08-08**	Water	04/24/2012 12:30	04/27/2012 09:35

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	29300	100	70.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270910	**S10-MW01**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2250	10.0	0.56	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0080J	0.010	0.0032	mg/L
7440-70-2	Calcium	520	0.20	0.049	mg/L
7440-48-4	Cobalt	0.0027J	0.020	0.0010	mg/L
7440-50-8	Copper	0.0060J	0.010	0.0034	mg/L
7439-89-6	Iron	0.26	0.10	0.053	mg/L
7439-95-4	Magnesium	499	0.20	0.024	mg/L
7439-96-5	Manganese	0.29	0.015	0.0017	mg/L
7440-09-7	Potassium	15.3	1.00	0.081	mg/L
7440-28-0	Thallium	0.0074J	0.020	0.0052	mg/L
7440-62-2	Vanadium	0.076	0.020	0.0025	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0075J	0.010	0.0032	mg/L
7440-70-2	Calcium	471	0.20	0.049	mg/L
7439-95-4	Magnesium	458	0.20	0.024	mg/L
7439-96-5	Manganese	0.24	0.015	0.0017	mg/L
7440-09-7	Potassium	14.8	1.00	0.081	mg/L
7440-62-2	Vanadium	0.057	0.020	0.0025	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2020	10.0	0.56	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	15.2	5.00	0.119	ug/L
67-64-1	Acetone	0.587J	5.00	0.399	ug/L
79-01-6	Trichloroethene	0.581J	5.00	0.151	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270910	**S10-MW01**	Water	04/25/2012 15:00	04/27/2012 09:35

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	12900	10.0	7.00	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	3.34	2.00	1.72	mg/L
14797-55-8	Nitrate	5.42J	10.0	1.56	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3330	200	42.0	mg/L
14808-79-8	Sulfate	5940	400	158	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270911	**SWMU183-MW03**	Water	04/25/2012 13:30	04/27/2012 09:35

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00014J	0.00020	0.000075	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.077J	0.20	0.047	mg/L
7440-39-3	Barium	0.011	0.010	0.0032	mg/L
7440-70-2	Calcium	547	0.20	0.049	mg/L
7440-47-3	Chromium	0.0024J	0.020	0.00067	mg/L
7440-50-8	Copper	0.022	0.010	0.0034	mg/L
7439-95-4	Magnesium	206	0.20	0.024	mg/L
7439-96-5	Manganese	0.84	0.015	0.0017	mg/L
7440-02-0	Nickel	0.0057J	0.040	0.0017	mg/L
7440-09-7	Potassium	7.36	1.00	0.081	mg/L
7782-49-2	Selenium	0.0089J	0.080	0.0076	mg/L
7440-22-4	Silver	0.0038J	0.010	0.0013	mg/L
7440-62-2	Vanadium	0.089	0.020	0.0025	mg/L
7440-66-6	Zinc	0.017J	0.020	0.012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	736	2.00	0.11	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270911	**SWMU183-MW03**	Water	04/25/2012 13:30	04/27/2012 09:35

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0088J	0.010	0.0032	mg/L
7440-70-2	Calcium	531	0.20	0.049	mg/L
7439-95-4	Magnesium	201	0.20	0.024	mg/L
7439-96-5	Manganese	0.82	0.015	0.0017	mg/L
7440-09-7	Potassium	5.91	1.00	0.081	mg/L
7440-22-4	Silver	0.0046J	0.010	0.0013	mg/L
7440-23-5	Sodium	1080	2.00	0.11	mg/L
7440-62-2	Vanadium	0.030	0.020	0.0025	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.62J	5.00	0.399	ug/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	930	100	21.0	mg/L
14808-79-8	Sulfate	2780	200	79.0	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	1.67	1.00	0.860	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	64.2	10.0	1.56	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5400	10.0	7.00	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270912	**S10-MW01-MS**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.83	0.20	0.047	mg/L
7440-36-0	Antimony	0.52	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.56	0.020	0.0070	mg/L
7440-39-3	Barium	0.50	0.010	0.0032	mg/L
7440-41-7	Beryllium	0.49	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.47	0.010	0.00021	mg/L
7440-70-2	Calcium	474	0.20	0.049	mg/L
7440-47-3	Chromium	0.48	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.48	0.020	0.0010	mg/L
7440-50-8	Copper	0.51	0.010	0.0034	mg/L
7439-89-6	Iron	4.75	0.20	0.053	mg/L
7439-92-1	Lead	0.46	0.030	0.0057	mg/L
7439-95-4	Magnesium	461	0.20	0.024	mg/L
7439-96-5	Manganese	0.73	0.015	0.0017	mg/L
7440-02-0	Nickel	0.46	0.040	0.0017	mg/L
7440-09-7	Potassium	25.9	1.00	0.081	mg/L
7782-49-2	Selenium	0.45	0.080	0.0076	mg/L
7440-22-4	Silver	0.52	0.010	0.0013	mg/L
7440-28-0	Thallium	0.46	0.020	0.0052	mg/L
7440-62-2	Vanadium	0.57	0.020	0.0025	mg/L
7440-66-6	Zinc	0.51	0.020	0.012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2050	10.0	0.56	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2260	10.0	0.56	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.09	0.20	0.047	mg/L
7440-36-0	Antimony	0.53	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.57	0.020	0.0070	mg/L
7440-39-3	Barium	0.53	0.010	0.0032	mg/L
7440-41-7	Beryllium	0.51	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.49	0.010	0.00021	mg/L
7440-70-2	Calcium	510	0.20	0.049	mg/L
7440-47-3	Chromium	0.49	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.50	0.020	0.0010	mg/L
7440-50-8	Copper	0.55	0.010	0.0034	mg/L
7439-89-6	Iron	5.32	0.10	0.053	mg/L
7439-92-1	Lead	0.48	0.030	0.0057	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270912	**S10-MW01-MS**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	Magnesium	495	0.20	0.024	mg/L
7439-96-5	Manganese	0.79	0.015	0.0017	mg/L
7440-02-0	Nickel	0.48	0.040	0.0017	mg/L
7440-09-7	Potassium	25.6	1.00	0.081	mg/L
7782-49-2	Selenium	0.45	0.080	0.0076	mg/L
7440-22-4	Silver	0.55	0.010	0.0013	mg/L
7440-28-0	Thallium	0.49	0.020	0.0052	mg/L
7440-62-2	Vanadium	0.62	0.020	0.0025	mg/L
7440-66-6	Zinc	0.52	0.020	0.012	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00447	0.00020	0.000075	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00427	0.00020	0.000075	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	50.7	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	55.9	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	55.6	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	48.0	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	51.6	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	54.6	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	50.9	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	52.5	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	45.0	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	50.5	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	49.2	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	47.6	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	52.3	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	66.1	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	105	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	52.0	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	50.4	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	53.2	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	49.0	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	51.0	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	56.5	5.00	0.181	ug/L
78-93-3	2-Butanone	46.5	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	54.6	5.00	0.108	ug/L
591-78-6	2-Hexanone	47.2	5.00	0.093	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270912	**S10-MW01-MS**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
106-43-4	4-Chlorotoluene	55.3	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	49.7	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	56.0	5.00	0.079	ug/L
67-64-1	Acetone	36.6	5.00	0.399	ug/L
71-43-2	Benzene	52.0	5.00	0.099	ug/L
108-86-1	Bromobenzene	52.1	5.00	0.109	ug/L
74-97-5	Bromochloromethane	52.2	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	52.4	5.00	0.076	ug/L
75-25-2	Bromoform	51.3	5.00	0.150	ug/L
74-83-9	Bromomethane	50.8	5.00	0.427	ug/L
75-15-0	Carbon disulfide	51.3	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	57.7	5.00	0.146	ug/L
108-90-7	Chlorobenzene	49.7	5.00	0.089	ug/L
75-00-3	Chloroethane	49.5	5.00	0.235	ug/L
67-66-3	Chloroform	53.0	5.00	0.109	ug/L
74-87-3	Chloromethane	55.6	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	50.2	5.00	0.076	ug/L
74-95-3	Dibromomethane	51.4	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	56.7	5.00	0.154	ug/L
100-41-4	Ethylbenzene	52.4	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	55.5	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	47.4	5.00	0.123	ug/L
74-88-4	Methyl iodide	43.5	5.00	0.084	ug/L
75-09-2	Methylene chloride	52.6	5.00	0.149	ug/L
91-20-3	Naphthalene	46.2	5.00	0.065	ug/L
100-42-5	Styrene	47.1	5.00	0.098	ug/L
127-18-4	Tetrachloroethene	49.5	5.00	0.126	ug/L
108-88-3	Toluene	48.9	5.00	0.127	ug/L
79-01-6	Trichloroethene	49.9	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	59.3	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	57.9	5.00	0.158	ug/L
75-01-4	Vinyl chloride	55.4	5.00	0.137	ug/L
1330-20-7	Xylene (total)	141	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	51.5	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	46.8	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	95.7	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	49.8	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	56.9	5.00	0.102	ug/L
95-47-6	o-Xylene	45.7	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	50.2	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	49.8	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	50.3	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	53.4	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	50.0	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	52.7	5.00	0.312	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270912	**S10-MW01-MS**	Water	04/25/2012 15:00	04/27/2012 09:35

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	53.0	2.00	1.72	mg/L
14797-55-8	Nitrate	58.5	10.0	1.56	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	144	25.0	2.95	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	9020	200	42.0	mg/L
14808-79-8	Sulfate	17200	400	158	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270913	**S10-MW01-MSD**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00430	0.00020	0.000075	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00464	0.00020	0.000075	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.77	0.20	0.047	mg/L
7440-36-0	Antimony	0.51	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.53	0.020	0.0070	mg/L
7440-39-3	Barium	0.48	0.010	0.0032	mg/L
7440-41-7	Beryllium	0.47	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.45	0.010	0.00021	mg/L
7440-70-2	Calcium	471	0.20	0.049	mg/L
7440-47-3	Chromium	0.46	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.46	0.020	0.0010	mg/L
7440-50-8	Copper	0.50	0.010	0.0034	mg/L
7439-89-6	Iron	4.64	0.10	0.053	mg/L
7439-92-1	Lead	0.45	0.030	0.0057	mg/L
7439-95-4	Magnesium	458	0.20	0.024	mg/L
7439-96-5	Manganese	0.72	0.015	0.0017	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270913	**S10-MW01-MSD**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-02-0	Nickel	0.45	0.040	0.0017	mg/L
7440-09-7	Potassium	26.5	1.00	0.081	mg/L
7782-49-2	Selenium	0.44	0.080	0.0076	mg/L
7440-22-4	Silver	0.51	0.010	0.0013	mg/L
7440-28-0	Thallium	0.44	0.020	0.0052	mg/L
7440-62-2	Vanadium	0.56	0.020	0.0025	mg/L
7440-66-6	Zinc	0.49	0.020	0.012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2080	10.0	0.56	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2220	10.0	0.56	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.81	0.20	0.047	mg/L
7440-36-0	Antimony	0.50	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.56	0.020	0.0070	mg/L
7440-39-3	Barium	0.51	0.010	0.0032	mg/L
7440-41-7	Beryllium	0.49	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.47	0.010	0.00021	mg/L
7440-70-2	Calcium	496	0.20	0.049	mg/L
7440-47-3	Chromium	0.48	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.49	0.020	0.0010	mg/L
7440-50-8	Copper	0.53	0.010	0.0034	mg/L
7439-89-6	Iron	5.07	0.10	0.053	mg/L
7439-92-1	Lead	0.47	0.030	0.0057	mg/L
7439-95-4	Magnesium	482	0.20	0.024	mg/L
7439-96-5	Manganese	0.77	0.015	0.0017	mg/L
7440-02-0	Nickel	0.46	0.040	0.0017	mg/L
7440-09-7	Potassium	24.9	1.00	0.081	mg/L
7782-49-2	Selenium	0.45	0.080	0.0076	mg/L
7440-22-4	Silver	0.53	0.010	0.0013	mg/L
7440-28-0	Thallium	0.48	0.020	0.0052	mg/L
7440-62-2	Vanadium	0.60	0.020	0.0025	mg/L
7440-66-6	Zinc	0.50	0.020	0.012	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	49.9	5.00	0.103	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270913	**S10-MW01-MSD**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-55-6	1,1,1-Trichloroethane	52.6	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	54.7	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	46.9	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	49.2	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	51.1	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	47.7	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	51.4	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	45.1	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	48.6	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	49.6	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	47.8	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	50.3	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	64.4	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	102	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	51.5	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	48.3	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	52.0	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	48.5	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	49.9	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	54.4	5.00	0.181	ug/L
78-93-3	2-Butanone	47.6	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	52.9	5.00	0.108	ug/L
591-78-6	2-Hexanone	47.2	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	53.9	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	48.1	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	55.9	5.00	0.079	ug/L
67-64-1	Acetone	38.0	5.00	0.399	ug/L
71-43-2	Benzene	50.2	5.00	0.099	ug/L
108-86-1	Bromobenzene	51.2	5.00	0.109	ug/L
74-97-5	Bromochloromethane	51.0	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	50.6	5.00	0.076	ug/L
75-25-2	Bromoform	50.6	5.00	0.150	ug/L
74-83-9	Bromomethane	53.2	5.00	0.427	ug/L
75-15-0	Carbon disulfide	49.3	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	54.0	5.00	0.146	ug/L
108-90-7	Chlorobenzene	48.2	5.00	0.089	ug/L
75-00-3	Chloroethane	46.8	5.00	0.235	ug/L
67-66-3	Chloroform	51.4	5.00	0.109	ug/L
74-87-3	Chloromethane	50.6	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	49.9	5.00	0.076	ug/L
74-95-3	Dibromomethane	49.7	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	51.0	5.00	0.154	ug/L
100-41-4	Ethylbenzene	50.9	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	56.7	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	45.5	5.00	0.123	ug/L
74-88-4	Methyl iodide	46.4	5.00	0.084	ug/L
75-09-2	Methylene chloride	50.9	5.00	0.149	ug/L
91-20-3	Naphthalene	46.7	5.00	0.065	ug/L
100-42-5	Styrene	46.8	5.00	0.098	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270913	**S10-MW01-MSD**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	46.7	5.00	0.126	ug/L
108-88-3	Toluene	46.9	5.00	0.127	ug/L
79-01-6	Trichloroethene	47.1	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	54.0	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	52.6	5.00	0.158	ug/L
75-01-4	Vinyl chloride	51.9	5.00	0.137	ug/L
1330-20-7	Xylene (total)	137	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	50.4	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	46.2	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	91.9	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	47.8	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	53.8	5.00	0.102	ug/L
95-47-6	o-Xylene	45.3	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	48.1	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	49.5	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	48.4	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	51.6	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	49.5	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	52.1	5.00	0.312	ug/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	143	25.0	2.95	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	53.1	2.00	1.72	mg/L
14797-55-8	Nitrate	58.8	10.0	1.56	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	9030	200	42.0	mg/L
14808-79-8	Sulfate	16900	400	158	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270914	**TRIP BLANK**	Water	04/25/2012 00:00	04/27/2012 09:35

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	**Acetone**	**0.820J**	**5.00**	**0.399**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270915	**TRIP BLANK**	Water	04/25/2012 00:00	04/27/2012 09:35

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	**Acetone**	**1.23J**	**5.00**	**0.399**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270901	**MW-08-01**	Water	04/25/2012 11:10	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 15:35	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	**1,2-Dichloroethane**	**28.3**	**5.00**	**0.119**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	**1,2-Dichloropropane**	**5.47**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	**2-Butanone**	**37.1**	**5.00**	**0.362**	**ug/L**
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**71.7**	**5.00**	**0.399**	**ug/L**
71-43-2	**Benzene**	**0.332J**	**5.00**	**0.099**	**ug/L**
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270901	**MW-08-01**	Water	04/25/2012 11:10	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 15:35	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	**sec-Butylbenzene**	**3.21J**	**5.00**	**0.111**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	**tert-Butylbenzene**	**3.73J**	**5.00**	**0.097**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.4	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.5	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.7	ug/L	107	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479639	SW-846 7470A Dissolved	1	04/30/2012 15:51	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00011J**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479640	SW-846 7470A	1	04/30/2012 16:20	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00010J**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270901	**MW-08-01**	Water	04/25/2012 11:10	04/27/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/03/2012 18:57	CLB	479981

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.11J**	**0.20**	**0.047**	**mg/L**
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.014**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	**Cadmium**	**0.00037J**	**0.010**	**0.00021**	**mg/L**
7440-70-2	**Calcium**	**455**	**0.20**	**0.049**	**mg/L**
7440-47-3	**Chromium**	**0.0039J**	**0.020**	**0.00067**	**mg/L**
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	**Copper**	**0.029**	**0.010**	**0.0034**	**mg/L**
7439-89-6	**Iron**	**8.19**	**0.10**	**0.053**	**mg/L**
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**608**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**2.02**	**0.015**	**0.0017**	**mg/L**
7440-02-0	**Nickel**	**0.0058J**	**0.040**	**0.0017**	**mg/L**
7440-09-7	**Potassium**	**6.48**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0056J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.074**	**0.020**	**0.0025**	**mg/L**
7440-66-6	**Zinc**	**0.013J**	**0.020**	**0.012**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	25	05/04/2012 21:07	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1530**	**25.0**	**1.39**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	25	05/04/2012 17:24	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1620**	**25.0**	**1.39**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 15:55	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.20	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270901	**MW-08-01**	Water	04/25/2012 11:10	04/27/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 15:55	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.0099J**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**470**	**0.20**	**0.049**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	Copper	0.0034U	0.010	0.0034	mg/L
7439-89-6	**Iron**	**5.33**	**0.20**	**0.053**	**mg/L**
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**590**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**1.85**	**0.015**	**0.0017**	**mg/L**
7440-02-0	Nickel	0.0017U	0.040	0.0017	mg/L
7440-09-7	**Potassium**	**4.42**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0034J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.012J**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/27/2012 14:45	DJH	479656

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**10400**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270902	**MW-08-01A**	Water	04/25/2012 11:10	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 15:55	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	**1,2-Dichloroethane**	**27.6**	**5.00**	**0.119**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	**1,2-Dichloropropane**	**5.62**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	**2-Butanone**	**35.4**	**5.00**	**0.362**	**ug/L**
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**49.2**	**5.00**	**0.399**	**ug/L**
71-43-2	**Benzene**	**0.438J**	**5.00**	**0.099**	**ug/L**
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270902	**MW-08-01A**	Water	04/25/2012 11:10	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 15:55	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	**sec-Butylbenzene**	**3.18J**	**5.00**	**0.111**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	**tert-Butylbenzene**	**3.76J**	**5.00**	**0.097**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.7	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	48.5	ug/L	97	87 - 116
2037-26-5	Toluene d8	50	49.3	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.8	ug/L	106	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479639	SW-846 7470A Dissolved	1	04/30/2012 15:53	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479640	SW-846 7470A	1	04/30/2012 16:21	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00009J**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270902	**MW-08-01A**	Water	04/25/2012 11:10	04/27/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/03/2012 19:32	CLB	479981

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.11J**	**0.20**	**0.047**	**mg/L**
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	**Arsenic**	**0.015J**	**0.020**	**0.0070**	**mg/L**
7440-39-3	**Barium**	**0.015**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	**Cadmium**	**0.00050J**	**0.010**	**0.00021**	**mg/L**
7440-70-2	**Calcium**	**484**	**0.20**	**0.049**	**mg/L**
7440-47-3	**Chromium**	**0.0041J**	**0.020**	**0.00067**	**mg/L**
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	**Copper**	**0.024**	**0.010**	**0.0034**	**mg/L**
7439-89-6	**Iron**	**9.23**	**0.10**	**0.053**	**mg/L**
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**602**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**2.00**	**0.015**	**0.0017**	**mg/L**
7440-02-0	**Nickel**	**0.0041J**	**0.040**	**0.0017**	**mg/L**
7440-09-7	**Potassium**	**6.41**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0058J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.079**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	25	05/04/2012 21:13	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1540**	**25.0**	**1.39**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	25	05/04/2012 17:30	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1590**	**25.0**	**1.39**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 16:02	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.20	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270902	**MW-08-01A**	Water	04/25/2012 11:10	04/27/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 16:02	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.0091J**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**453**	**0.20**	**0.049**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	Copper	0.0034U	0.010	0.0034	mg/L
7439-89-6	**Iron**	**5.34**	**0.10**	**0.053**	**mg/L**
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**570**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**1.79**	**0.015**	**0.0017**	**mg/L**
7440-02-0	Nickel	0.0017U	0.040	0.0017	mg/L
7440-09-7	**Potassium**	**4.58**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0060J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.010J**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/27/2012 14:45	DJH	479656

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**10700**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270903	**MW-08-02**	Water	04/25/2012 10:15	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 16:15	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	**1,2-Dichloroethane**	**11.2**	**5.00**	**0.119**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**2.60J**	**5.00**	**0.399**	**ug/L**
71-43-2	**Benzene**	**0.211J**	**5.00**	**0.099**	**ug/L**
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270903	**MW-08-02**	Water	04/25/2012 10:15	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 16:15	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47	ug/L	94	84 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	51.7	ug/L	103	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.7	ug/L	103	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479639	SW-846 7470A Dissolved	1	04/30/2012 15:54	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00011J**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479640	SW-846 7470A	1	04/30/2012 16:23	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00011J**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270903	**MW-08-02**	Water	04/25/2012 10:15	04/27/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/03/2012 19:38	CLB	479981

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.14J**	**0.20**	**0.047**	**mg/L**
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	**Arsenic**	**0.018J**	**0.020**	**0.0070**	**mg/L**
7440-39-3	**Barium**	**0.014**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	**Cadmium**	**0.00090J**	**0.010**	**0.00021**	**mg/L**
7440-70-2	**Calcium**	**597**	**0.20**	**0.049**	**mg/L**
7440-47-3	**Chromium**	**0.0019J**	**0.020**	**0.00067**	**mg/L**
7440-48-4	**Cobalt**	**0.0022J**	**0.020**	**0.0010**	**mg/L**
7440-50-8	**Copper**	**0.032**	**0.010**	**0.0034**	**mg/L**
7439-89-6	**Iron**	**0.59**	**0.10**	**0.053**	**mg/L**
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**162**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.98**	**0.015**	**0.0017**	**mg/L**
7440-02-0	**Nickel**	**0.0069J**	**0.040**	**0.0017**	**mg/L**
7440-09-7	**Potassium**	**3.98**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0047J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.075**	**0.020**	**0.0025**	**mg/L**
7440-66-6	**Zinc**	**0.018J**	**0.020**	**0.012**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/08/2012 16:28	CLB	480392

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**107**	**2.00**	**0.11**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 14:57	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.20	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	**Arsenic**	**0.013J**	**0.020**	**0.0070**	**mg/L**
7440-39-3	**Barium**	**0.0093J**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**557**	**0.20**	**0.049**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	Copper	0.0034U	0.010	0.0034	mg/L
7439-89-6	**Iron**	**0.33**	**0.10**	**0.053**	**mg/L**
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270903	**MW-08-02**	Water	04/25/2012 10:15	04/27/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 14:57	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	**Magnesium**	**152**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.80**	**0.015**	**0.0017**	**mg/L**
7440-02-0	Nickel	0.0017U	0.040	0.0017	mg/L
7440-09-7	**Potassium**	**3.03**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0036J**	**0.010**	**0.0013**	**mg/L**
7440-23-5	**Sodium**	**114**	**2.00**	**0.11**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.021**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/27/2012 14:45	DJH	479656

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3510**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270904	**MW-08-03**	Water	04/25/2012 08:15	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 16:35	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**2.25J**	**5.00**	**0.399**	**ug/L**
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	**Chloroform**	**0.937J**	**5.00**	**0.109**	**ug/L**
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270904	**MW-08-03**	Water	04/25/2012 08:15	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 16:35	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.5	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	51.8	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.4	ug/L	105	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479639	SW-846 7470A Dissolved	1	04/30/2012 15:56	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00013J**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479640	SW-846 7470A	1	04/30/2012 16:28	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00013J**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270904	**MW-08-03**	Water	04/25/2012 08:15	04/27/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/03/2012 19:45	CLB	479981

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.073J**	**0.20**	**0.047**	**mg/L**
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	**Arsenic**	**0.011J**	**0.020**	**0.0070**	**mg/L**
7440-39-3	**Barium**	**0.0077J**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**606**	**0.20**	**0.049**	**mg/L**
7440-47-3	**Chromium**	**0.0049J**	**0.020**	**0.00067**	**mg/L**
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	**Copper**	**0.039**	**0.010**	**0.0034**	**mg/L**
7439-89-6	Iron	0.053U	0.10	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**651**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.0055J**	**0.015**	**0.0017**	**mg/L**
7440-02-0	**Nickel**	**0.0089J**	**0.040**	**0.0017**	**mg/L**
7440-09-7	**Potassium**	**24.4**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0049J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.12**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	25	05/04/2012 21:19	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1980**	**25.0**	**1.39**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	25	05/04/2012 17:37	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1850**	**25.0**	**1.39**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 16:08	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.20	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270904	**MW-08-03**	Water	04/25/2012 08:15	04/27/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 16:08	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.0044J**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**512**	**0.20**	**0.049**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	Copper	0.0034U	0.010	0.0034	mg/L
7439-89-6	Iron	0.053U	0.10	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**533**	**0.20**	**0.024**	**mg/L**
7439-96-5	Manganese	0.0017U	0.015	0.0017	mg/L
7440-02-0	Nickel	0.0017U	0.040	0.0017	mg/L
7440-09-7	**Potassium**	**16.4**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0072J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.063**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/27/2012 14:45	DJH	479656

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**12300**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270905	**MW-08-04**	Water	04/24/2012 14:00	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 16:54	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**1.23J**	**5.00**	**0.399**	**ug/L**
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270905	**MW-08-04**	Water	04/24/2012 14:00	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 16:54	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.6	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	51.8	ug/L	104	87 - 116
2037-26-5	Toluene d8	50	51	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.5	ug/L	107	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479639	SW-846 7470A Dissolved	1	04/30/2012 15:57	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00012J**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479640	SW-846 7470A	1	04/30/2012 16:30	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00010J**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270905	**MW-08-04**	Water	04/24/2012 14:00	04/27/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/03/2012 19:51	CLB	479981

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.12J**	**0.20**	**0.047**	**mg/L**
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.012**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**469**	**0.20**	**0.049**	**mg/L**
7440-47-3	**Chromium**	**0.0023J**	**0.020**	**0.00067**	**mg/L**
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	**Copper**	**0.030**	**0.010**	**0.0034**	**mg/L**
7439-89-6	**Iron**	**0.14J**	**0.20**	**0.053**	**mg/L**
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**264**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.0028J**	**0.015**	**0.0017**	**mg/L**
7440-02-0	**Nickel**	**0.0063J**	**0.040**	**0.0017**	**mg/L**
7440-09-7	**Potassium**	**18.7**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0041J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.11**	**0.020**	**0.0025**	**mg/L**
7440-66-6	**Zinc**	**0.016J**	**0.020**	**0.012**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/08/2012 16:35	CLB	480392

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**607**	**2.00**	**0.11**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 16:16	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.20	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.0080J**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**456**	**0.20**	**0.049**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	Copper	0.0034U	0.010	0.0034	mg/L
7439-89-6	Iron	0.053U	0.10	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270905	**MW-08-04**	Water	04/24/2012 14:00	04/27/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 16:16	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	**Magnesium**	**245**	**0.20**	**0.024**	**mg/L**
7439-96-5	Manganese	0.0017U	0.015	0.0017	mg/L
7440-02-0	Nickel	0.0017U	0.040	0.0017	mg/L
7440-09-7	**Potassium**	**16.6**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0077J**	**0.010**	**0.0013**	**mg/L**
7440-23-5	**Sodium**	**929**	**2.00**	**0.11**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.053**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/27/2012 14:45	DJH	479656

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**6060**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270906	**MW-08-05**	Water	04/24/2012 15:45	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 17:14	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	**1,2-Dichloroethane**	**4.61J**	**5.00**	**0.119**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**0.759J**	**5.00**	**0.399**	**ug/L**
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270906	**MW-08-05**	Water	04/24/2012 15:45	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 17:14	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.4	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	51.7	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	52.1	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.7	ug/L	107	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479639	SW-846 7470A Dissolved	1	04/30/2012 15:59	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00012J**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479640	SW-846 7470A	1	04/30/2012 16:31	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00014J**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270906	**MW-08-05**	Water	04/24/2012 15:45	04/27/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/03/2012 19:58	CLB	479981

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.18J**	**0.20**	**0.047**	**mg/L**
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.019**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	**Cadmium**	**0.00062J**	**0.010**	**0.00021**	**mg/L**
7440-70-2	**Calcium**	**610**	**0.20**	**0.049**	**mg/L**
7440-47-3	**Chromium**	**0.00072J**	**0.020**	**0.00067**	**mg/L**
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	**Copper**	**0.036**	**0.010**	**0.0034**	**mg/L**
7439-89-6	**Iron**	**0.38**	**0.10**	**0.053**	**mg/L**
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**72.6**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.067**	**0.015**	**0.0017**	**mg/L**
7440-02-0	**Nickel**	**0.0046J**	**0.040**	**0.0017**	**mg/L**
7440-09-7	**Potassium**	**8.71**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0036J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.059**	**0.020**	**0.0025**	**mg/L**
7440-66-6	**Zinc**	**0.019J**	**0.020**	**0.012**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/08/2012 16:42	CLB	480392

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**56.5**	**2.00**	**0.11**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 16:23	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.20	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.014**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**570**	**0.20**	**0.049**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	Copper	0.0034U	0.010	0.0034	mg/L
7439-89-6	Iron	0.053U	0.20	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270906	**MW-08-05**	Water	04/24/2012 15:45	04/27/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 16:23	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	**Magnesium**	**55.1**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.024**	**0.015**	**0.0017**	**mg/L**
7440-02-0	Nickel	0.0017U	0.040	0.0017	mg/L
7440-09-7	**Potassium**	**6.26**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0039J**	**0.010**	**0.0013**	**mg/L**
7440-23-5	**Sodium**	**55.8**	**2.00**	**0.11**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.016J**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/27/2012 14:45	DJH	479656

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2850**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270907	**MW-08-06**	Water	04/24/2012 11:20	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 17:34	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**1.51J**	**5.00**	**0.399**	**ug/L**
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	**Chloroform**	**0.504J**	**5.00**	**0.109**	**ug/L**
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270907	**MW-08-06**	Water	04/24/2012 11:20	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 17:34	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.8	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	51.3	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	52.7	ug/L	105	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.4	ug/L	107	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479639	SW-846 7470A Dissolved	1	04/30/2012 16:39	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00009J**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479640	SW-846 7470A	1	04/30/2012 16:33	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00011J**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270907	**MW-08-06**	Water	04/24/2012 11:20	04/27/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/03/2012 20:05	CLB	479981

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.20	0.047	mg/L
7440-36-0	**Antimony**	**0.0088J**	**0.060**	**0.0080**	**mg/L**
7440-38-2	**Arsenic**	**0.012J**	**0.020**	**0.0070**	**mg/L**
7440-39-3	**Barium**	**0.0093J**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**539**	**0.20**	**0.049**	**mg/L**
7440-47-3	**Chromium**	**0.0042J**	**0.020**	**0.00067**	**mg/L**
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	**Copper**	**0.022**	**0.010**	**0.0034**	**mg/L**
7439-89-6	**Iron**	**0.69**	**0.10**	**0.053**	**mg/L**
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**922**	**0.20**	**0.024**	**mg/L**
7439-96-5	Manganese	0.0017U	0.015	0.0017	mg/L
7440-02-0	**Nickel**	**0.0032J**	**0.040**	**0.0017**	**mg/L**
7440-09-7	**Potassium**	**32.9**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0042J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.12**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	25	05/04/2012 21:27	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4710**	**25.0**	**1.39**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	25	05/04/2012 18:55	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4050**	**25.0**	**1.39**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 17:16	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.20	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270907	**MW-08-06**	Water	04/24/2012 11:20	04/27/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 17:16	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.0059J**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**476**	**0.20**	**0.049**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	Copper	0.0034U	0.010	0.0034	mg/L
7439-89-6	Iron	0.053U	0.10	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**768**	**0.20**	**0.024**	**mg/L**
7439-96-5	Manganese	0.0017U	0.015	0.0017	mg/L
7440-02-0	Nickel	0.0017U	0.040	0.0017	mg/L
7440-09-7	**Potassium**	**21.7**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0050J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.054**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/27/2012 14:45	DJH	479656

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**19400**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270908	**MW-08-07**	Water	04/25/2012 09:15	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 17:54	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	**1,2-Dichloroethane**	**52.5**	**5.00**	**0.119**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	**1,2-Dichloropropane**	**0.915J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**1.70J**	**5.00**	**0.399**	**ug/L**
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270908	**MW-08-07**	Water	04/25/2012 09:15	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 17:54	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.2	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	51.5	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	52.1	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	54.6	ug/L	109	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479639	SW-846 7470A Dissolved	1	04/30/2012 16:02	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00012J**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479640	SW-846 7470A	1	04/30/2012 16:34	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00008J**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270908	**MW-08-07**	Water	04/25/2012 09:15	04/27/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/03/2012 20:11	CLB	479981

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.25**	**0.20**	**0.047**	**mg/L**
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	**Arsenic**	**0.039**	**0.020**	**0.0070**	**mg/L**
7440-39-3	**Barium**	**0.016**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	**Cadmium**	**0.00064J**	**0.010**	**0.00021**	**mg/L**
7440-70-2	**Calcium**	**630**	**0.20**	**0.049**	**mg/L**
7440-47-3	**Chromium**	**0.0028J**	**0.020**	**0.00067**	**mg/L**
7440-48-4	**Cobalt**	**0.0044J**	**0.020**	**0.0010**	**mg/L**
7440-50-8	**Copper**	**0.016**	**0.010**	**0.0034**	**mg/L**
7439-89-6	**Iron**	**0.16**	**0.10**	**0.053**	**mg/L**
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**185**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**1.71**	**0.015**	**0.0017**	**mg/L**
7440-02-0	**Nickel**	**0.0095J**	**0.040**	**0.0017**	**mg/L**
7440-09-7	**Potassium**	**6.19**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0030J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.089**	**0.020**	**0.0025**	**mg/L**
7440-66-6	**Zinc**	**0.013J**	**0.020**	**0.012**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/08/2012 16:49	CLB	480392

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**369**	**2.00**	**0.11**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 17:23	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.20	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	**Arsenic**	**0.029**	**0.020**	**0.0070**	**mg/L**
7440-39-3	**Barium**	**0.010J**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**584**	**0.20**	**0.049**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	**Cobalt**	**0.0014J**	**0.020**	**0.0010**	**mg/L**
7440-50-8	Copper	0.0034U	0.010	0.0034	mg/L
7439-89-6	Iron	0.053U	0.10	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270908	**MW-08-07**	Water	04/25/2012 09:15	04/27/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 17:23	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	**Magnesium**	**176**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**1.37**	**0.015**	**0.0017**	**mg/L**
7440-02-0	**Nickel**	**0.0020J**	**0.040**	**0.0017**	**mg/L**
7440-09-7	**Potassium**	**4.82**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0054J**	**0.010**	**0.0013**	**mg/L**
7440-23-5	**Sodium**	**524**	**2.00**	**0.11**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.040**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/27/2012 14:45	DJH	479656

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**4020**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270909	**MW-08-08**	Water	04/24/2012 12:30	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 18:14	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**1.01J**	**5.00**	**0.399**	**ug/L**
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	**Chloroform**	**0.435J**	**5.00**	**0.109**	**ug/L**
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270909	**MW-08-08**	Water	04/24/2012 12:30	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 18:14	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.4	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	52	ug/L	104	87 - 116
2037-26-5	Toluene d8	50	52.7	ug/L	105	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.7	ug/L	107	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479639	SW-846 7470A Dissolved	1	04/30/2012 16:04	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00011J**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479640	SW-846 7470A	1	04/30/2012 16:36	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00010J**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270909	**MW-08-08**	Water	04/24/2012 12:30	04/27/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/03/2012 20:19	CLB	479981

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.054J**	**0.20**	**0.047**	**mg/L**
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	**Arsenic**	**0.0072J**	**0.020**	**0.0070**	**mg/L**
7440-39-3	**Barium**	**0.012**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**676**	**0.20**	**0.049**	**mg/L**
7440-47-3	**Chromium**	**0.0021J**	**0.020**	**0.00067**	**mg/L**
7440-48-4	**Cobalt**	**0.0012J**	**0.020**	**0.0010**	**mg/L**
7440-50-8	**Copper**	**0.016**	**0.010**	**0.0034**	**mg/L**
7439-89-6	Iron	0.053U	0.10	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**1480**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.25**	**0.015**	**0.0017**	**mg/L**
7440-02-0	**Nickel**	**0.0034J**	**0.040**	**0.0017**	**mg/L**
7440-09-7	**Potassium**	**50.5**	**1.00**	**0.081**	**mg/L**
7782-49-2	**Selenium**	**0.0097J**	**0.080**	**0.0076**	**mg/L**
7440-22-4	**Silver**	**0.0043J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.085**	**0.020**	**0.0025**	**mg/L**
7440-66-6	**Zinc**	**0.030**	**0.020**	**0.012**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	25	05/04/2012 21:34	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**6460**	**25.0**	**1.39**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	25	05/04/2012 19:02	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**6020**	**25.0**	**1.39**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 17:30	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.20	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270909	**MW-08-08**	Water	04/24/2012 12:30	04/27/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 17:30	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.0093J**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**620**	**0.20**	**0.049**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	**Cobalt**	**0.0019J**	**0.020**	**0.0010**	**mg/L**
7440-50-8	**Copper**	**0.0076J**	**0.010**	**0.0034**	**mg/L**
7439-89-6	Iron	0.053U	0.10	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**1310**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.22**	**0.015**	**0.0017**	**mg/L**
7440-02-0	Nickel	0.0017U	0.040	0.0017	mg/L
7440-09-7	**Potassium**	**41.1**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0091J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.047**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	04/27/2012 14:45	DJH	479656

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**29300**	**100**	**70.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270910	**S10-MW01**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 13:55	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	**1,2-Dichloroethane**	**15.2**	**5.00**	**0.119**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**0.587J**	**5.00**	**0.399**	**ug/L**
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270910	**S10-MW01**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 13:55	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	**Trichloroethene**	**0.581J**	**5.00**	**0.151**	**ug/L**
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45	ug/L	90	84 - 120
1868-53-7	Dibromofluoromethane	50	52.8	ug/L	106	87 - 116
2037-26-5	Toluene d8	50	52.2	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	55	ug/L	110	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479639	SW-846 7470A Dissolved	1	04/30/2012 15:42	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479640	SW-846 7470A	1	04/30/2012 16:14	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270910	**S10-MW01**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	10	05/04/2012 19:58	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2250**	**10.0**	**0.56**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/08/2012 13:49	CLB	480392

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.20	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.0080J**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**520**	**0.20**	**0.049**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	**Cobalt**	**0.0027J**	**0.020**	**0.0010**	**mg/L**
7440-50-8	**Copper**	**0.0060J**	**0.010**	**0.0034**	**mg/L**
7439-89-6	**Iron**	**0.26**	**0.10**	**0.053**	**mg/L**
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**499**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.29**	**0.015**	**0.0017**	**mg/L**
7440-02-0	Nickel	0.0017U	0.040	0.0017	mg/L
7440-09-7	**Potassium**	**15.3**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	Silver	0.0013U	0.010	0.0013	mg/L
7440-28-0	**Thallium**	**0.0074J**	**0.020**	**0.0052**	**mg/L**
7440-62-2	**Vanadium**	**0.076**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	10	05/04/2012 15:55	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2020**	**10.0**	**0.56**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 14:36	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.20	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270910	**S10-MW01**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 14:36	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.0075J**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**471**	**0.20**	**0.049**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	Copper	0.0034U	0.010	0.0034	mg/L
7439-89-6	Iron	0.053U	0.10	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**458**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.24**	**0.015**	**0.0017**	**mg/L**
7440-02-0	Nickel	0.0017U	0.040	0.0017	mg/L
7440-09-7	**Potassium**	**14.8**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	Silver	0.0013U	0.010	0.0013	mg/L
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.057**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/27/2012 14:45	DJH	479656

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**12900**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	04/27/2012 14:25	JEM	479635

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**3.34**	**2.00**	**1.72**	**mg/L**
14797-55-8	**Nitrate**	**5.42J**	**10.0**	**1.56**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	04/27/2012 15:36	JEM	479635

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3330**	**200**	**42.0**	**mg/L**
14808-79-8	**Sulfate**	**5940**	**400**	**158**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270910	**S10-MW01**	Water	04/25/2012 15:00	04/27/2012 09:35

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	04/27/2012 23:16	JEM	479635

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	2.95U	25.0	2.95	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270911	**SWMU183-MW03**	Water	04/25/2012 13:30	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 18:34	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**1.62J**	**5.00**	**0.399**	**ug/L**
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270911	**SWMU183-MW03**	Water	04/25/2012 13:30	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 18:34	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.8	ug/L	94	84 - 120
1868-53-7	Dibromofluoromethane	50	52.9	ug/L	106	87 - 116
2037-26-5	Toluene d8	50	52.8	ug/L	106	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	55.8	ug/L	112	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479639	SW-846 7470A Dissolved	1	04/30/2012 16:09	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479640	SW-846 7470A	1	04/30/2012 16:38	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00014J**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270911	**SWMU183-MW03**	Water	04/25/2012 13:30	04/27/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/03/2012 20:25	CLB	479981

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.077J**	**0.20**	**0.047**	**mg/L**
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.011**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**547**	**0.20**	**0.049**	**mg/L**
7440-47-3	**Chromium**	**0.0024J**	**0.020**	**0.00067**	**mg/L**
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	**Copper**	**0.022**	**0.010**	**0.0034**	**mg/L**
7439-89-6	Iron	0.053U	0.10	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**206**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.84**	**0.015**	**0.0017**	**mg/L**
7440-02-0	**Nickel**	**0.0057J**	**0.040**	**0.0017**	**mg/L**
7440-09-7	**Potassium**	**7.36**	**1.00**	**0.081**	**mg/L**
7782-49-2	**Selenium**	**0.0089J**	**0.080**	**0.0076**	**mg/L**
7440-22-4	**Silver**	**0.0038J**	**0.010**	**0.0013**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.089**	**0.020**	**0.0025**	**mg/L**
7440-66-6	**Zinc**	**0.017J**	**0.020**	**0.012**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/08/2012 16:56	CLB	480392

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**736**	**2.00**	**0.11**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 17:38	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.20	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.0088J**	**0.010**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.00021U	0.010	0.00021	mg/L
7440-70-2	**Calcium**	**531**	**0.20**	**0.049**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	Copper	0.0034U	0.010	0.0034	mg/L
7439-89-6	Iron	0.053U	0.10	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270911	**SWMU183-MW03**	Water	04/25/2012 13:30	04/27/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 17:38	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	**Magnesium**	**201**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.82**	**0.015**	**0.0017**	**mg/L**
7440-02-0	Nickel	0.0017U	0.040	0.0017	mg/L
7440-09-7	**Potassium**	**5.91**	**1.00**	**0.081**	**mg/L**
7782-49-2	Selenium	0.0076U	0.080	0.0076	mg/L
7440-22-4	**Silver**	**0.0046J**	**0.010**	**0.0013**	**mg/L**
7440-23-5	**Sodium**	**1080**	**2.00**	**0.11**	**mg/L**
7440-28-0	Thallium	0.0052U	0.020	0.0052	mg/L
7440-62-2	**Vanadium**	**0.030**	**0.020**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.020	0.012	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/27/2012 14:45	DJH	479656

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5400**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	04/27/2012 15:18	JEM	479635

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**1.67**	**1.00**	**0.860**	**mg/L**
14797-65-0	Nitrite	0.590U	5.00	0.590	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	04/27/2012 16:29	JEM	479635

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**930**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2780**	**200**	**79.0**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	04/28/2012 01:39	JEM	479635

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**64.2**	**10.0**	**1.56**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270912	**S10-MW01-MS**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 14:15	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	50.7	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	55.9	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	55.6	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	48.0	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	51.6	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	54.6	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	50.9	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	52.5	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	45.0	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	50.5	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	49.2	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	47.6	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	52.3	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	66.1	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	105	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	52.0	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	50.4	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	53.2	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	49.0	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	51.0	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	56.5	5.00	0.181	ug/L
78-93-3	2-Butanone	46.5	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	54.6	5.00	0.108	ug/L
591-78-6	2-Hexanone	47.2	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	55.3	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	49.7	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	56.0	5.00	0.079	ug/L
67-64-1	Acetone	36.6	5.00	0.399	ug/L
71-43-2	Benzene	52.0	5.00	0.099	ug/L
108-86-1	Bromobenzene	52.1	5.00	0.109	ug/L
74-97-5	Bromochloromethane	52.2	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	52.4	5.00	0.076	ug/L
75-25-2	Bromoform	51.3	5.00	0.150	ug/L
74-83-9	Bromomethane	50.8	5.00	0.427	ug/L
75-15-0	Carbon disulfide	51.3	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	57.7	5.00	0.146	ug/L
108-90-7	Chlorobenzene	49.7	5.00	0.089	ug/L
75-00-3	Chloroethane	49.5	5.00	0.235	ug/L
67-66-3	Chloroform	53.0	5.00	0.109	ug/L
74-87-3	Chloromethane	55.6	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	50.2	5.00	0.076	ug/L
74-95-3	Dibromomethane	51.4	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	56.7	5.00	0.154	ug/L
100-41-4	Ethylbenzene	52.4	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	55.5	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	47.4	5.00	0.123	ug/L
74-88-4	Methyl iodide	43.5	5.00	0.084	ug/L
75-09-2	Methylene chloride	52.6	5.00	0.149	ug/L
91-20-3	Naphthalene	46.2	5.00	0.065	ug/L
100-42-5	Styrene	47.1	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270912	**S10-MW01-MS**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 14:15	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**49.5**	**5.00**	**0.126**	**ug/L**
108-88-3	**Toluene**	**48.9**	**5.00**	**0.127**	**ug/L**
79-01-6	**Trichloroethene**	**49.9**	**5.00**	**0.151**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**59.3**	**5.00**	**0.131**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**57.9**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**55.4**	**5.00**	**0.137**	**ug/L**
1330-20-7	**Xylene (total)**	**141**	**15.0**	**0.384**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**51.5**	**5.00**	**0.134**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**46.8**	**5.00**	**0.092**	**ug/L**
136777-61-2	**m,p-Xylene**	**95.7**	**10.0**	**0.237**	**ug/L**
104-51-8	**n-Butylbenzene**	**49.8**	**5.00**	**0.152**	**ug/L**
103-65-1	**n-Propylbenzene**	**56.9**	**5.00**	**0.102**	**ug/L**
95-47-6	**o-Xylene**	**45.7**	**5.00**	**0.147**	**ug/L**
135-98-8	**sec-Butylbenzene**	**50.2**	**5.00**	**0.111**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**49.8**	**5.00**	**0.060**	**ug/L**
98-06-6	**tert-Butylbenzene**	**50.3**	**5.00**	**0.097**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**53.4**	**5.00**	**0.075**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**50.0**	**5.00**	**0.146**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**52.7**	**5.00**	**0.312**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.1	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	51.6	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	48.2	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.5	ug/L	107	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479639	SW-846 7470A Dissolved	1	04/30/2012 15:43	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00427**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479640	SW-846 7470A	1	04/30/2012 16:15	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00447**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270912	**S10-MW01-MS**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	10	05/04/2012 20:05	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2260	10.0	0.56	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/08/2012 13:57	CLB	480392

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.09	0.20	0.047	mg/L
7440-36-0	Antimony	0.53	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.57	0.020	0.0070	mg/L
7440-39-3	Barium	0.53	0.010	0.0032	mg/L
7440-41-7	Beryllium	0.51	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.49	0.010	0.00021	mg/L
7440-70-2	Calcium	510	0.20	0.049	mg/L
7440-47-3	Chromium	0.49	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.50	0.020	0.0010	mg/L
7440-50-8	Copper	0.55	0.010	0.0034	mg/L
7439-89-6	Iron	5.32	0.10	0.053	mg/L
7439-92-1	Lead	0.48	0.030	0.0057	mg/L
7439-95-4	Magnesium	495	0.20	0.024	mg/L
7439-96-5	Manganese	0.79	0.015	0.0017	mg/L
7440-02-0	Nickel	0.48	0.040	0.0017	mg/L
7440-09-7	Potassium	25.6	1.00	0.081	mg/L
7782-49-2	Selenium	0.45	0.080	0.0076	mg/L
7440-22-4	Silver	0.55	0.010	0.0013	mg/L
7440-28-0	Thallium	0.49	0.020	0.0052	mg/L
7440-62-2	Vanadium	0.62	0.020	0.0025	mg/L
7440-66-6	Zinc	0.52	0.020	0.012	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	10	05/04/2012 16:02	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2050	10.0	0.56	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 14:43	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.83	0.20	0.047	mg/L
7440-36-0	Antimony	0.52	0.060	0.0080	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270912	**S10-MW01-MS**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 14:43	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.56	0.020	0.0070	mg/L
7440-39-3	Barium	0.50	0.010	0.0032	mg/L
7440-41-7	Beryllium	0.49	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.47	0.010	0.00021	mg/L
7440-70-2	Calcium	474	0.20	0.049	mg/L
7440-47-3	Chromium	0.48	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.48	0.020	0.0010	mg/L
7440-50-8	Copper	0.51	0.010	0.0034	mg/L
7439-89-6	Iron	4.75	0.20	0.053	mg/L
7439-92-1	Lead	0.46	0.030	0.0057	mg/L
7439-95-4	Magnesium	461	0.20	0.024	mg/L
7439-96-5	Manganese	0.73	0.015	0.0017	mg/L
7440-02-0	Nickel	0.46	0.040	0.0017	mg/L
7440-09-7	Potassium	25.9	1.00	0.081	mg/L
7782-49-2	Selenium	0.45	0.080	0.0076	mg/L
7440-22-4	Silver	0.52	0.010	0.0013	mg/L
7440-28-0	Thallium	0.46	0.020	0.0052	mg/L
7440-62-2	Vanadium	0.57	0.020	0.0025	mg/L
7440-66-6	Zinc	0.51	0.020	0.012	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	04/27/2012 14:43	JEM	479635

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	53.0	2.00	1.72	mg/L
14797-55-8	Nitrate	58.5	10.0	1.56	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	04/27/2012 15:54	JEM	479635

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	9020	200	42.0	mg/L
14808-79-8	Sulfate	17200	400	158	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	04/27/2012 23:34	JEM	479635

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	144	25.0	2.95	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270913	**S10-MW01-MSD**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 14:35	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	49.9	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	52.6	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	54.7	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	46.9	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	49.2	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	51.1	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	47.7	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	51.4	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	45.1	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	48.6	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	49.6	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	47.8	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	50.3	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	64.4	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	102	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	51.5	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	48.3	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	52.0	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	48.5	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	49.9	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	54.4	5.00	0.181	ug/L
78-93-3	2-Butanone	47.6	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	52.9	5.00	0.108	ug/L
591-78-6	2-Hexanone	47.2	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	53.9	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	48.1	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	55.9	5.00	0.079	ug/L
67-64-1	Acetone	38.0	5.00	0.399	ug/L
71-43-2	Benzene	50.2	5.00	0.099	ug/L
108-86-1	Bromobenzene	51.2	5.00	0.109	ug/L
74-97-5	Bromochloromethane	51.0	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	50.6	5.00	0.076	ug/L
75-25-2	Bromoform	50.6	5.00	0.150	ug/L
74-83-9	Bromomethane	53.2	5.00	0.427	ug/L
75-15-0	Carbon disulfide	49.3	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	54.0	5.00	0.146	ug/L
108-90-7	Chlorobenzene	48.2	5.00	0.089	ug/L
75-00-3	Chloroethane	46.8	5.00	0.235	ug/L
67-66-3	Chloroform	51.4	5.00	0.109	ug/L
74-87-3	Chloromethane	50.6	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	49.9	5.00	0.076	ug/L
74-95-3	Dibromomethane	49.7	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	51.0	5.00	0.154	ug/L
100-41-4	Ethylbenzene	50.9	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	56.7	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	45.5	5.00	0.123	ug/L
74-88-4	Methyl iodide	46.4	5.00	0.084	ug/L
75-09-2	Methylene chloride	50.9	5.00	0.149	ug/L
91-20-3	Naphthalene	46.7	5.00	0.065	ug/L
100-42-5	Styrene	46.8	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270913	**S10-MW01-MSD**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 14:35	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**46.7**	**5.00**	**0.126**	**ug/L**
108-88-3	**Toluene**	**46.9**	**5.00**	**0.127**	**ug/L**
79-01-6	**Trichloroethene**	**47.1**	**5.00**	**0.151**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**54.0**	**5.00**	**0.131**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**52.6**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**51.9**	**5.00**	**0.137**	**ug/L**
1330-20-7	**Xylene (total)**	**137**	**15.0**	**0.384**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**50.4**	**5.00**	**0.134**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**46.2**	**5.00**	**0.092**	**ug/L**
136777-61-2	**m,p-Xylene**	**91.9**	**10.0**	**0.237**	**ug/L**
104-51-8	**n-Butylbenzene**	**47.8**	**5.00**	**0.152**	**ug/L**
103-65-1	**n-Propylbenzene**	**53.8**	**5.00**	**0.102**	**ug/L**
95-47-6	**o-Xylene**	**45.3**	**5.00**	**0.147**	**ug/L**
135-98-8	**sec-Butylbenzene**	**48.1**	**5.00**	**0.111**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**49.5**	**5.00**	**0.060**	**ug/L**
98-06-6	**tert-Butylbenzene**	**48.4**	**5.00**	**0.097**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**51.6**	**5.00**	**0.075**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**49.5**	**5.00**	**0.146**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**52.1**	**5.00**	**0.312**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.9	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	51.8	ug/L	104	87 - 116
2037-26-5	Toluene d8	50	48.2	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.9	ug/L	106	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479639	SW-846 7470A Dissolved	1	04/30/2012 15:45	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00430**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479640	SW-846 7470A	1	04/30/2012 16:17	BNB	479810

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00464**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270913	**S10-MW01-MSD**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	10	05/04/2012 20:12	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2220	10.0	0.56	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 13:25	479638	SW-846 3010A	2	05/08/2012 14:04	CLB	480392

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.81	0.20	0.047	mg/L
7440-36-0	Antimony	0.50	0.060	0.0080	mg/L
7440-38-2	Arsenic	0.56	0.020	0.0070	mg/L
7440-39-3	Barium	0.51	0.010	0.0032	mg/L
7440-41-7	Beryllium	0.49	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.47	0.010	0.00021	mg/L
7440-70-2	Calcium	496	0.20	0.049	mg/L
7440-47-3	Chromium	0.48	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.49	0.020	0.0010	mg/L
7440-50-8	Copper	0.53	0.010	0.0034	mg/L
7439-89-6	Iron	5.07	0.10	0.053	mg/L
7439-92-1	Lead	0.47	0.030	0.0057	mg/L
7439-95-4	Magnesium	482	0.20	0.024	mg/L
7439-96-5	Manganese	0.77	0.015	0.0017	mg/L
7440-02-0	Nickel	0.46	0.040	0.0017	mg/L
7440-09-7	Potassium	24.9	1.00	0.081	mg/L
7782-49-2	Selenium	0.45	0.080	0.0076	mg/L
7440-22-4	Silver	0.53	0.010	0.0013	mg/L
7440-28-0	Thallium	0.48	0.020	0.0052	mg/L
7440-62-2	Vanadium	0.60	0.020	0.0025	mg/L
7440-66-6	Zinc	0.50	0.020	0.012	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	10	05/04/2012 16:08	CLB	480155

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2080	10.0	0.56	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 14:50	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.77	0.20	0.047	mg/L
7440-36-0	Antimony	0.51	0.060	0.0080	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270913	**S10-MW01-MSD**	Water	04/25/2012 15:00	04/27/2012 09:35

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/27/2012 12:55	479637	SW-846 3005 Dissolved	2	05/07/2012 14:50	CLB	480324

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.53	0.020	0.0070	mg/L
7440-39-3	Barium	0.48	0.010	0.0032	mg/L
7440-41-7	Beryllium	0.47	0.010	0.00016	mg/L
7440-43-9	Cadmium	0.45	0.010	0.00021	mg/L
7440-70-2	Calcium	471	0.20	0.049	mg/L
7440-47-3	Chromium	0.46	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.46	0.020	0.0010	mg/L
7440-50-8	Copper	0.50	0.010	0.0034	mg/L
7439-89-6	Iron	4.64	0.10	0.053	mg/L
7439-92-1	Lead	0.45	0.030	0.0057	mg/L
7439-95-4	Magnesium	458	0.20	0.024	mg/L
7439-96-5	Manganese	0.72	0.015	0.0017	mg/L
7440-02-0	Nickel	0.45	0.040	0.0017	mg/L
7440-09-7	Potassium	26.5	1.00	0.081	mg/L
7782-49-2	Selenium	0.44	0.080	0.0076	mg/L
7440-22-4	Silver	0.51	0.010	0.0013	mg/L
7440-28-0	Thallium	0.44	0.020	0.0052	mg/L
7440-62-2	Vanadium	0.56	0.020	0.0025	mg/L
7440-66-6	Zinc	0.49	0.020	0.012	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	04/27/2012 15:01	JEM	479635

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	53.1	2.00	1.72	mg/L
14797-55-8	Nitrate	58.8	10.0	1.56	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	04/27/2012 16:11	JEM	479635

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	9030	200	42.0	mg/L
14808-79-8	Sulfate	16900	400	158	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	04/28/2012 00:27	JEM	479635

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	143	25.0	2.95	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270914	**TRIP BLANK**	Water	04/25/2012 00:00	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 18:54	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**0.820J**	**5.00**	**0.399**	**ug/L**
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270914	**TRIP BLANK**	Water	04/25/2012 00:00	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 18:54	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.5	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	53.7	ug/L	107	87 - 116
2037-26-5	Toluene d8	50	52.4	ug/L	105	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	55.2	ug/L	110	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270915	**TRIP BLANK**	Water	04/25/2012 00:00	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 19:14	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**1.23J**	**5.00**	**0.399**	**ug/L**
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204270915	**TRIP BLANK**	Water	04/25/2012 00:00	04/27/2012 09:35

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/29/2012 19:14	CEK	479752

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.6	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	54.1	ug/L	108	87 - 116
2037-26-5	Toluene d8	50	52.8	ug/L	106	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	56	ug/L	112	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 479752	**Client ID**	MB479752	LCS479752	LCSD479752
Prep Batch N/A	**GCAL ID**	1058474	1058475	1058476
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	04/29/2012 13:35	04/29/2012 11:59	04/29/2012 12:19
	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	0.399U	0.399	50.0	47.4	95	59 - 134	47.6	95	0.4	30
74-97-5	Bromochloromethane	0.127U	0.127	50.0	53.2	106	78 - 112	51.1	102	4	30
75-27-4	Bromodichloromethane	0.076U	0.076	50.0	52.0	104	76 - 116	50.9	102	2	30
75-25-2	Bromoform	0.150U	0.150	50.0	50.5	101	68 - 128	51.9	104	3	30
74-83-9	Bromomethane	0.427U	0.427	50.0	45.2	90	55 - 151	51.4	103	13	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	52.8	106	67 - 147	49.6	99	6	30
56-23-5	Carbon tetrachloride	0.146U	0.146	50.0	57.7	115	74 - 139	54.6	109	6	30
75-00-3	Chloroethane	0.235U	0.235	50.0	47.2	94	54 - 166	47.4	95	0.4	30
136777-61-2	m,p-Xylene	0.237U	0.237	100	100	100	83 - 121	93.9	94	6	30
67-66-3	Chloroform	0.109U	0.109	50.0	53.1	106	85 - 123	51.6	103	3	30
74-87-3	Chloromethane	0.058U	0.058	50.0	58.7	117	55 - 173	53.6	107	9	30
124-48-1	Dibromochloromethane	0.076U	0.076	50.0	49.7	99	74 - 116	51.0	102	3	30
74-95-3	Dibromomethane	0.131U	0.131	50.0	51.7	103	81 - 116	52.1	104	0.8	30
75-71-8	Dichlorodifluoromethane	0.154U	0.154	50.0	55.0	110	34 - 158	52.0	104	6	30
75-34-3	1,1-Dichloroethane	0.138U	0.138	50.0	56.1	112	82 - 127	53.2	106	5	30
107-06-2	1,2-Dichloroethane	0.119U	0.119	50.0	51.1	102	76 - 122	51.0	102	0.2	30
156-59-2	cis-1,2-Dichloroethene	0.134U	0.134	50.0	51.1	102	81 - 114	50.5	101	1	30
156-60-5	trans-1,2-Dichloroethene	0.075U	0.075	50.0	52.0	104	82 - 126	51.0	102	2	30
75-09-2	Methylene chloride	0.149U	0.149	50.0	52.5	105	69 - 125	50.6	101	4	30
78-87-5	1,2-Dichloropropane	0.150U	0.150	50.0	51.7	103	81 - 120	50.5	101	2	30
10061-01-5	cis-1,3-Dichloropropene	0.092U	0.092	50.0	46.0	92	83 - 119	46.5	93	1	30
10061-02-6	trans-1,3-Dichloropropene	0.146U	0.146	50.0	50.0	100	87 - 123	49.7	99	0.6	30
100-41-4	Ethylbenzene	0.119U	0.119	50.0	54.1	108	87 - 118	50.2	100	7	30
591-78-6	2-Hexanone	0.093U	0.093	50.0	44.2	88	58 - 125	47.6	95	7	30
98-82-8	Isopropylbenzene (Cumene)	0.123U	0.123	50.0	50.3	101	87 - 131	46.2	92	8	30
78-93-3	2-Butanone	0.362U	0.362	50.0	49.2	98	61 - 127	49.4	99	0.4	30
74-88-4	Methyl iodide	0.084U	0.084	50.0	41.9	84	72 - 125	45.9	92	9	30
108-10-1	4-Methyl-2-pentanone	0.079U	0.079	50.0	53.1	106	62 - 125	54.5	109	3	30
103-65-1	n-Propylbenzene	0.102U	0.102	50.0	60.3	121	86 - 125	55.0	110	9	30
100-42-5	Styrene	0.098U	0.098	50.0	49.0	98	78 - 118	47.4	95	3	30
127-18-4	Tetrachloroethene	0.126U	0.126	50.0	53.1	106	80 - 131	48.4	97	9	30
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	0.103	50.0	51.7	103	81 - 119	49.9	100	4	30
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	0.108	50.0	49.7	99	71 - 120	51.4	103	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 479752	**Client ID**	MB479752	LCS479752	LCSD479752
Prep Batch N/A	**GCAL ID**	1058474	1058475	1058476
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	04/29/2012 13:35	04/29/2012 11:59	04/29/2012 12:19
	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	0.156U	0.156	50.0	50.6	101	68 - 123	46.6	93	8	30
71-55-6	1,1,1-Trichloroethane	0.085U	0.085	50.0	55.6	111	79 - 133	53.5	107	4	30
79-00-5	1,1,2-Trichloroethane	0.147U	0.147	50.0	46.2	92	80 - 114	48.3	97	4	30
75-69-4	Trichlorofluoromethane	0.131U	0.131	50.0	58.1	116	66 - 156	55.2	110	5	30
96-18-4	1,2,3-Trichloropropane	0.098U	0.098	50.0	50.1	100	77 - 115	52.8	106	5	30
95-63-6	1,2,4-Trimethylbenzene	0.102U	0.102	50.0	53.4	107	82 - 120	50.1	100	6	30
108-67-8	1,3,5-Trimethylbenzene	0.075U	0.075	50.0	53.9	108	83 - 123	49.6	99	8	30
75-01-4	Vinyl chloride	0.137U	0.137	50.0	54.0	108	57 - 153	53.0	106	2	30
95-47-6	o-Xylene	0.147U	0.147	50.0	47.9	96	83 - 121	45.1	90	6	30
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	0.178	50.0	46.9	94	61 - 118	48.2	96	3	30
106-93-4	1,2-Dibromoethane	0.100U	0.100	50.0	46.6	93	80 - 115	48.4	97	4	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	0.060	50.0	49.3	99	75 - 116	50.0	100	1	30
540-59-0	1,2-Dichloroethene(Total)	0.209U	0.209	100	103	103	74 - 128	101	101	2	30
99-87-6	4-Isopropyltoluene	0.082U	0.082	50.0	54.5	109	83 - 125	49.6	99	9	30
1330-20-7	Xylene (total)	0.384U	0.384	150	148	99	74 - 127	139	93	6	30
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	0.312	50.0	47.4	95	51 - 137	50.6	101	7	30
594-20-7	2,2-Dichloropropane	0.181U	0.181	50.0	56.9	114	77 - 138	54.6	109	4	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158	50.0	59.7	119	74 - 139	55.1	110	8	30
563-58-6	1,1-Dichloropropene	0.121U	0.121	50.0	50.8	102	87 - 127	49.0	98	4	30
142-28-9	1,3-Dichloropropane	0.072U	0.072	50.0	48.3	97	81 - 113	49.9	100	3	30
108-86-1	Bromobenzene	0.109U	0.109	50.0	52.2	104	83 - 115	51.2	102	2	30
95-49-8	2-Chlorotoluene	0.108U	0.108	50.0	57.7	115	81 - 121	53.6	107	7	30
106-43-4	4-Chlorotoluene	0.117U	0.117	50.0	58.1	116	84 - 120	54.7	109	6	30
98-06-6	tert-Butylbenzene	0.097U	0.097	50.0	53.9	108	83 - 126	49.2	98	9	30
135-98-8	sec-Butylbenzene	0.111U	0.111	50.0	55.3	111	86 - 127	49.7	99	11	30
541-73-1	1,3-Dichlorobenzene	0.135U	0.135	50.0	56.8	114	86 - 115	53.5	107	6	30
106-46-7	1,4-Dichlorobenzene	0.110U	0.110	50.0	53.3	107	87 - 113	50.6	101	5	30
104-51-8	n-Butylbenzene	0.152U	0.152	50.0	55.2	110	84 - 124	49.4	99	11	30
95-50-1	1,2-Dichlorobenzene	0.117U	0.117	50.0	54.9	110	85 - 115	53.3	107	3	30
87-68-3	Hexachlorobutadiene	0.211U	0.211	50.0	61.8	124	71 - 133	52.7	105	16	30
91-20-3	Naphthalene	0.065U	0.065	50.0	48.9	98	59 - 125	48.9	98	0	35
75-35-4	1,1-Dichloroethene	0.208U	0.208	50.0	54.8	110	75 - 133	52.0	104	5	20
71-43-2	Benzene	0.099U	0.099	50.0	51.8	104	83 - 124	50.6	101	2	20

GC/MS Volatiles Quality Control Summary

Analytical Batch 479752		**Client ID**	MB479752			LCS479752			LCSD479752		
Prep Batch N/A		**GCAL ID**	1058474			1058475			1058476		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	04/29/2012 13:35			04/29/2012 11:59			04/29/2012 12:19		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.151U	0.151	50.0	52.6	105	85 - 124	51.1	102	3	20
108-88-3	Toluene		0.127U	0.127	50.0	48.9	98	86 - 116	48.0	96	2	20
108-90-7	Chlorobenzene		0.089U	0.089	50.0	49.8	100	87 - 115	49.2	98	1	20
Surrogate												
460-00-4	4-Bromofluorobenzene		46.1	92	50	47.9	96	84 - 120	48	96		
1868-53-7	Dibromofluoromethane		52.3	105	50	53	106	87 - 116	51.7	103		
2037-26-5	Toluene d8		51.3	103	50	47	94	86 - 112	49	98		
17060-07-0	1,2-Dichloroethane-d4		54.7	109	50	53.7	107	76 - 127	52.9	106		

Analytical Batch 479752		**Client ID**	S10-MW01			S10-MW01-MS			S10-MW01-MSD		
Prep Batch N/A		**GCAL ID**	21204270910			21204270912			21204270913		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	04/29/2012 13:55			04/29/2012 14:15			04/29/2012 14:35		
		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	0.103	50.0	50.7	101	81 - 119	49.9	100	2	10
71-55-6	1,1,1-Trichloroethane		0.00	0.085	50.0	55.9	112	79 - 133	52.6	105	6	11
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.108	50.0	55.6	111	71 - 120	54.7	109	2	11
79-00-5	1,1,2-Trichloroethane		0.00	0.147	50.0	48.0	96	80 - 114	46.9	94	2	11
75-34-3	1,1-Dichloroethane		0.00	0.138	50.0	51.6	103	82 - 127	49.2	98	5	10
75-35-4	1,1-Dichloroethene		0.00	0.208	50.0	54.6	109	75 - 133	51.1	102	7	13
563-58-6	1,1-Dichloropropene		0.00	0.121	50.0	50.9	102	87 - 127	47.7	95	6	10
96-18-4	1,2,3-Trichloropropane		0.00	0.098	50.0	52.5	105	77 - 115	51.4	103	2	12
120-82-1	1,2,4-Trichlorobenzene		0.00	0.156	50.0	45.0	90	68 - 123	45.1	90	0.2	11
95-63-6	1,2,4-Trimethylbenzene		0.00	0.102	50.0	50.5	101	82 - 120	48.6	97	4	10
96-12-8	1,2-Dibromo-3-chloropropane		0.00	0.178	50.0	49.2	98	61 - 118	49.6	99	0.8	15
106-93-4	1,2-Dibromoethane		0.00	0.100	50.0	47.6	95	80 - 115	47.8	96	0.4	10
95-50-1	1,2-Dichlorobenzene		0.00	0.117	50.0	52.3	105	85 - 115	50.3	101	4	9
107-06-2	1,2-Dichloroethane		15.2	0.119	50.0	66.1	102	76 - 122	64.4	98	3	11
540-59-0	1,2-Dichloroethene(Total)		0.00	0.209	100	105	105	74 - 128	102	102	3	30
78-87-5	1,2-Dichloropropane		0.00	0.150	50.0	52.0	104	81 - 120	51.5	103	1	11

GC/MS Volatiles Quality Control Summary

Analytical Batch 479752	**Client ID**	S10-MW01	S10-MW01-MS	S10-MW01-MSD
Prep Batch N/A	**GCAL ID**	21204270910	21204270912	21204270913
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	04/29/2012 13:55	04/29/2012 14:15	04/29/2012 14:35
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
108-67-8	1,3,5-Trimethylbenzene	0.00	0.075	50.0	50.4	101	83 - 123	48.3	97	4	10
541-73-1	1,3-Dichlorobenzene	0.00	0.135	50.0	53.2	106	86 - 115	52.0	104	2	9
142-28-9	1,3-Dichloropropane	0.00	0.072	50.0	49.0	98	81 - 113	48.5	97	1	11
106-46-7	1,4-Dichlorobenzene	0.00	0.110	50.0	51.0	102	87 - 113	49.9	100	2	10
594-20-7	2,2-Dichloropropane	0.00	0.181	50.0	56.5	113	77 - 138	54.4	109	4	12
78-93-3	2-Butanone	0.00	0.362	50.0	46.5	93	61 - 127	47.6	95	2	13
95-49-8	2-Chlorotoluene	0.00	0.108	50.0	54.6	109	81 - 121	52.9	106	3	10
591-78-6	2-Hexanone	0.00	0.093	50.0	47.2	94	58 - 125	47.2	94	0	14
106-43-4	4-Chlorotoluene	0.00	0.117	50.0	55.3	111	84 - 120	53.9	108	3	10
99-87-6	4-Isopropyltoluene	0.00	0.082	50.0	49.7	99	83 - 125	48.1	96	3	9
108-10-1	4-Methyl-2-pentanone	0.00	0.079	50.0	56.0	112	62 - 125	55.9	112	0.2	13
67-64-1	Acetone	0.587	0.399	50.0	36.6	72	59 - 134	38.0	75	4	14
71-43-2	Benzene	0.00	0.099	50.0	52.0	104	83 - 124	50.2	100	4	11
108-86-1	Bromobenzene	0.00	0.109	50.0	52.1	104	83 - 115	51.2	102	2	10
74-97-5	Bromochloromethane	0.00	0.127	50.0	52.2	104	78 - 112	51.0	102	2	10
75-27-4	Bromodichloromethane	0.00	0.076	50.0	52.4	105	76 - 116	50.6	101	3	10
75-25-2	Bromoform	0.00	0.150	50.0	51.3	103	68 - 128	50.6	101	1	11
74-83-9	Bromomethane	0.00	0.427	50.0	50.8	102	55 - 151	53.2	106	5	21
75-15-0	Carbon disulfide	0.00	0.190	50.0	51.3	103	67 - 147	49.3	99	4	12
56-23-5	Carbon tetrachloride	0.00	0.146	50.0	57.7	115	74 - 139	54.0	108	7	13
108-90-7	Chlorobenzene	0.00	0.089	50.0	49.7	99	87 - 115	48.2	96	3	9
75-00-3	Chloroethane	0.00	0.235	50.0	49.5	99	54 - 166	46.8	94	6	20
67-66-3	Chloroform	0.00	0.109	50.0	53.0	106	85 - 123	51.4	103	3	10
74-87-3	Chloromethane	0.00	0.058	50.0	55.6	111	55 - 173	50.6	101	9	22
124-48-1	Dibromochloromethane	0.00	0.076	50.0	50.2	100	74 - 116	49.9	100	0.6	11
74-95-3	Dibromomethane	0.00	0.131	50.0	51.4	103	81 - 116	49.7	99	3	10
75-71-8	Dichlorodifluoromethane	0.00	0.154	50.0	56.7	113	34 - 158	51.0	102	11	22
100-41-4	Ethylbenzene	0.00	0.119	50.0	52.4	105	87 - 118	50.9	102	3	10
87-68-3	Hexachlorobutadiene	0.00	0.211	50.0	55.5	111	71 - 133	56.7	113	2	12
98-82-8	Isopropylbenzene (Cumene)	0.00	0.123	50.0	47.4	95	87 - 131	45.5	91	4	10
74-88-4	Methyl iodide	0.00	0.084	50.0	43.5	87	72 - 125	46.4	93	6	11
75-09-2	Methylene chloride	0.00	0.149	50.0	52.6	105	69 - 125	50.9	102	3	11
91-20-3	Naphthalene	0.00	0.065	50.0	46.2	92	59 - 125	46.7	93	1	15

GC/MS Volatiles Quality Control Summary

Analytical Batch 479752		**Client ID**	S10-MW01			S10-MW01-MS			S10-MW01-MSD		
Prep Batch N/A		**GCAL ID**	21204270910			21204270912			21204270913		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	04/29/2012 13:55			04/29/2012 14:15			04/29/2012 14:35		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-42-5	Styrene		0.00	0.098	50.0	47.1	94	78 - 118	46.8	94	0.6	11
127-18-4	Tetrachloroethene		0.00	0.126	50.0	49.5	99	80 - 131	46.7	93	6	12
108-88-3	Toluene		0.00	0.127	50.0	48.9	98	86 - 116	46.9	94	4	10
79-01-6	Trichloroethene		0.581	0.151	50.0	49.9	99	85 - 124	47.1	93	6	10
75-69-4	Trichlorofluoromethane		0.00	0.131	50.0	59.3	119	66 - 156	54.0	108	9	15
76-13-1	Trichlorotrifluoroethane		0.00	0.158	50.0	57.9	116	74 - 139	52.6	105	10	13
75-01-4	Vinyl chloride		0.00	0.137	50.0	55.4	111	57 - 153	51.9	104	7	22
1330-20-7	Xylene (total)		0.00	0.384	150	141	94	74 - 127	137	91	3	30
156-59-2	cis-1,2-Dichloroethene		0.00	0.134	50.0	51.5	103	81 - 114	50.4	101	2	10
10061-01-5	cis-1,3-Dichloropropene		0.00	0.092	50.0	46.8	94	83 - 119	46.2	92	1	10
136777-61-2	m,p-Xylene		0.00	0.237	100	95.7	96	83 - 121	91.9	92	4	10
104-51-8	n-Butylbenzene		0.00	0.152	50.0	49.8	100	84 - 124	47.8	96	4	10
103-65-1	n-Propylbenzene		0.00	0.102	50.0	56.9	114	86 - 125	53.8	108	6	10
95-47-6	o-Xylene		0.00	0.147	50.0	45.7	91	83 - 121	45.3	91	0.9	10
135-98-8	sec-Butylbenzene		0.00	0.111	50.0	50.2	100	86 - 127	48.1	96	4	10
1634-04-4	tert-Butyl methyl ether (MTBE)		0.00	0.060	50.0	49.8	100	75 - 116	49.5	99	0.6	10
98-06-6	tert-Butylbenzene		0.00	0.097	50.0	50.3	101	83 - 126	48.4	97	4	10
156-60-5	trans-1,2-Dichloroethene		0.00	0.075	50.0	53.4	107	82 - 126	51.6	103	3	10
10061-02-6	trans-1,3-Dichloropropene		0.00	0.146	50.0	50.0	100	87 - 123	49.5	99	1	10
110-57-6	trans-1,4-Dichloro-2-butene		0.00	0.312	50.0	52.7	105	51 - 137	52.1	104	1	24
Surrogate												
460-00-4	4-Bromofluorobenzene		45	90	50	48.1	96	84 - 120	47.9	96		
1868-53-7	Dibromofluoromethane		52.8	106	50	51.6	103	87 - 116	51.8	104		
2037-26-5	Toluene d8		52.2	104	50	48.2	96	86 - 112	48.2	96		
17060-07-0	1,2-Dichloroethane-d4		55	110	50	53.5	107	76 - 127	52.9	106		

Inorganics Quality Control Summary

Analytical Batch	479810	**Client ID**	MB479639		LCS479639		
Prep Batch	479639	**GCAL ID**	1057725		1057726		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	04/27/2012 12:55		04/27/2012 12:55		
		Analytical Date	04/30/2012 15:38		04/30/2012 15:40		
		Matrix	Water		Water		
SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.00011J	0.000075	0.00500	0.00510	102	88 - 111

Analytical Batch	479810	**Client ID**	S10-MW01		S10-MW01-MS		
Prep Batch	479639	**GCAL ID**	21204270910		21204270912		
Prep Method	SW-846	**Sample Type**	SAMPLE		MS		
	7470A	**Prep Date**	04/27/2012 13:25		04/27/2012 12:55		
	Dissolved	**Analytical Date**	04/30/2012 16:14		04/30/2012 15:43		
		Matrix	Water		Water		
SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.00000	0.000075	0.00500	0.00427	85	75 - 125

Inorganics Quality Control Summary

Analytical Batch	479810	**Client ID**	MB479640		LCS479640		
Prep Batch	479640	**GCAL ID**	1057727		1057728		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	04/27/2012 13:25		04/27/2012 13:25		
		Analytical Date	04/30/2012 16:11		04/30/2012 16:12		
		Matrix	Water		Water		
SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.00017J	0.000075	0.00500	0.00533	107	80 - 120

Analytical Batch	479810	**Client ID**	S10-MW01		S10-MW01-MS		
Prep Batch	479640	**GCAL ID**	21204270910		21204270912		
Prep Method	SW-846	**Sample Type**	SAMPLE		MS		
	7470A	**Prep Date**	04/27/2012 12:55		04/27/2012 13:25		
		Analytical Date	04/30/2012 15:42		04/30/2012 16:15		
		Matrix	Water		Water		
SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.00000	0.000075	0.00500	0.00447	89	75 - 125

Inorganics Quality Control Summary

Analytical Batch	479981	**Client ID**	MB479638	LCS479638
Prep Batch	479638	**GCAL ID**	1057723	1057724
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	04/27/2012 13:25	04/27/2012 13:25
		Analytical Date	05/03/2012 18:12	05/03/2012 18:19
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.024U	0.024	5.00	5.01	100	80 - 120
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.52	104	80 - 120
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.53	105	80 - 120
7440-39-3	Barium	0.0016U	0.0016	0.50	0.51	103	80 - 120
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.49	98	80 - 120
7440-43-9	Cadmium	0.00010U	0.00010	0.50	0.54	108	80 - 120
7440-70-2	Calcium	0.081J	0.024	5.00	5.09	102	80 - 120
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.52	104	80 - 120
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.53	105	80 - 120
7440-50-8	Copper	0.0017U	0.0017	0.50	0.48	97	80 - 120
7439-89-6	Iron	0.027U	0.027	5.00	4.99	100	80 - 120
7439-92-1	Lead	0.0028U	0.0028	0.50	0.55	109	80 - 120
7439-95-4	Magnesium	0.048J	0.012	5.00	5.09	102	80 - 120
7439-96-5	Manganese	0.0010J	0.00083	0.50	0.51	102	80 - 120
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.53	106	80 - 120
7440-09-7	Potassium	0.062J	0.041	10.0	10.2	102	80 - 120
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.54	109	80 - 120
7440-22-4	Silver	0.0013J	0.00064	0.50	0.51	101	80 - 120
7440-23-5	Sodium	0.29J	0.056	20.0	19.0	95	80 - 120
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.52	104	80 - 120
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.50	101	80 - 120
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.53	106	80 - 120

Inorganics Quality Control Summary

Analytical Batch	480155	**Client ID**	S10-MW01	S10-MW01-MS	S10-MW01-MSD
Prep Batch	479638	**GCAL ID**	21204270910	21204270912	21204270913
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	04/27/2012 13:25	04/27/2012 13:25	04/27/2012 13:25
		Analytical Date	05/04/2012 19:58	05/04/2012 20:05	05/04/2012 20:12
		Matrix	Water	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	2250	0.56	20.0	2260	**35***	75 - 125	2220	**-100***	1	20

Analytical Batch	480392	**Client ID**	S10-MW01	S10-MW01-MS	S10-MW01-MSD
Prep Batch	479638	**GCAL ID**	21204270910	21204270912	21204270913
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	04/27/2012 13:25	04/27/2012 13:25	04/27/2012 13:25
		Analytical Date	05/08/2012 13:49	05/08/2012 13:57	05/08/2012 14:04
		Matrix	Water	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.047	5.00	5.09	102	75 - 125	4.81	96	6	20
7440-36-0	Antimony	0.0	0.0080	0.50	0.53	107	75 - 125	0.50	101	6	20
7440-38-2	Arsenic	0.0	0.0070	0.50	0.57	114	75 - 125	0.56	111	3	20
7440-39-3	Barium	0.0080	0.0032	0.50	0.53	104	75 - 125	0.51	100	4	20
7440-41-7	Beryllium	0.0	0.00016	0.50	0.51	101	75 - 125	0.49	98	3	20
7440-43-9	Cadmium	0.0	0.00021	0.50	0.49	99	75 - 125	0.47	94	5	20
7440-70-2	Calcium	520	0.049	5.00	510	**-200***	75 - 125	496	**-500***	3	20
7440-47-3	Chromium	0.0	0.00067	0.50	0.49	98	75 - 125	0.48	95	3	20
7440-48-4	Cobalt	0.0027	0.0010	0.50	0.50	100	75 - 125	0.49	96	3	20
7440-50-8	Copper	0.0060	0.0034	0.50	0.55	110	75 - 125	0.53	106	4	20
7439-89-6	Iron	0.26	0.053	5.00	5.32	101	75 - 125	5.07	96	5	20
7439-92-1	Lead	0.0	0.0057	0.50	0.48	96	75 - 125	0.47	93	3	20
7439-95-4	Magnesium	499	0.024	5.00	495	**-80***	75 - 125	482	**-300***	3	20
7439-96-5	Manganese	0.29	0.0017	0.50	0.79	100	75 - 125	0.77	96	2	20
7440-02-0	Nickel	0.0	0.0017	0.50	0.48	96	75 - 125	0.46	92	3	20
7440-09-7	Potassium	15.3	0.081	10.0	25.6	103	75 - 125	24.9	97	3	20
7782-49-2	Selenium	0.0	0.0076	0.50	0.45	90	75 - 125	0.45	90	0.7	20
7440-22-4	Silver	0.0	0.0013	0.50	0.55	109	75 - 125	0.53	105	4	20
7440-28-0	Thallium	0.0074	0.0052	0.50	0.49	97	75 - 125	0.48	94	3	20
7440-62-2	Vanadium	0.076	0.0025	0.50	0.62	109	75 - 125	0.60	104	3	20
7440-66-6	Zinc	0.0	0.012	0.50	0.52	103	75 - 125	0.50	100	4	20

Inorganics Quality Control Summary

Analytical Batch	480155	**Client ID**	MB479637	LCS479637
Prep Batch	479637	**GCAL ID**	1057721	1057722
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	04/27/2012 12:55	04/27/2012 12:55
		Analytical Date	05/04/2012 14:45	05/04/2012 14:52
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.056J	0.024	5.00	4.79	96	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.52	103	88 - 108
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.52	105	88 - 109
7440-39-3	Barium	0.0016U	0.0016	0.50	0.51	103	92 - 112
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.52	104	89 - 113
7440-43-9	Cadmium	0.00010U	0.00010	0.50	0.51	103	88 - 111
7440-70-2	Calcium	0.024U	0.024	5.00	4.97	99	90 - 111
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.54	108	90 - 113
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.53	105	89 - 111
7440-50-8	Copper	0.0017U	0.0017	0.50	0.50	100	86 - 112
7439-89-6	Iron	0.027U	0.027	5.00	4.90	98	89 - 116
7439-92-1	Lead	0.0028U	0.0028	0.50	0.50	101	89 - 109
7439-95-4	Magnesium	0.012U	0.012	5.00	4.96	99	92 - 113
7439-96-5	Manganese	0.0018J	0.00083	0.50	0.51	102	90 - 110
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.52	103	89 - 111
7440-09-7	Potassium	0.041U	0.041	10.0	9.74	97	89 - 114
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.51	102	90 - 110
7440-22-4	Silver	0.00064U	0.00064	0.50	0.51	102	86 - 120
7440-23-5	Sodium	0.32J	0.056	20.0	19.8	99	90 - 117
7440-28-0	Thallium	0.0063J	0.0026	0.50	0.52	103	88 - 108
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.50	100	91 - 111
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.51	102	84 - 111

Inorganics Quality Control Summary

Analytical Batch	480155	**Client ID**	S10-MW01	S10-MW01-MS	S10-MW01-MSD
Prep Batch	479637	**GCAL ID**	21204270910	21204270912	21204270913
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	04/27/2012 12:55	04/27/2012 12:55	04/27/2012 12:55
		Analytical Date	05/04/2012 15:55	05/04/2012 16:02	05/04/2012 16:08
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	2020	0.56	20.0	2050	155	70 - 203	2080	**298***	1	25

Analytical Batch	480324	**Client ID**	S10-MW01	S10-MW01-MS	S10-MW01-MSD
Prep Batch	479637	**GCAL ID**	21204270910	21204270912	21204270913
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	04/27/2012 12:55	04/27/2012 12:55	04/27/2012 12:55
		Analytical Date	05/07/2012 14:36	05/07/2012 14:43	05/07/2012 14:50
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.047	5.00	4.83	97	83 - 119	4.77	95	1	25
7440-36-0	Antimony	0.0	0.0080	0.50	0.52	104	81 - 124	0.51	102	2	25
7440-38-2	Arsenic	0.0039	0.0070	0.50	0.56	111	84 - 124	0.53	105	6	25
7440-39-3	Barium	0.0075	0.0032	0.50	0.50	98	85 - 120	0.48	95	4	25
7440-41-7	Beryllium	0.0	0.00016	0.50	0.49	97	79 - 121	0.47	95	3	25
7440-43-9	Cadmium	0.0	0.00021	0.50	0.47	94	82 - 119	0.45	90	4	25
7440-70-2	Calcium	471	0.049	5.00	474	48	48 - 153	471	**-8***	0.6	25
7440-47-3	Chromium	0.0	0.00067	0.50	0.48	96	73 - 135	0.46	93	4	25
7440-48-4	Cobalt	0.0	0.0010	0.50	0.48	95	82 - 119	0.46	92	4	25
7440-50-8	Copper	0.0	0.0034	0.50	0.51	102	82 - 129	0.50	101	2	25
7439-89-6	Iron	0.0	0.053	5.00	4.75	95	52 - 155	4.64	93	2	25
7439-92-1	Lead	0.0	0.0057	0.50	0.46	92	62 - 146	0.45	90	3	25
7439-95-4	Magnesium	458	0.024	5.00	461	**46***	62 - 146	458	**-2***	0.5	25
7439-96-5	Manganese	0.24	0.0017	0.50	0.73	98	79 - 121	0.72	95	2	25
7440-02-0	Nickel	0.0	0.0017	0.50	0.46	93	84 - 120	0.45	90	3	25
7440-09-7	Potassium	14.8	0.081	10.0	25.9	111	76 - 132	26.5	117	2	25
7782-49-2	Selenium	0.0	0.0076	0.50	0.45	91	71 - 140	0.44	88	3	25
7440-22-4	Silver	0.0	0.0013	0.50	0.52	104	75 - 141	0.51	103	1	25
7440-28-0	Thallium	0.0	0.0052	0.50	0.46	92	90 - 116	0.44	**88***	5	25
7440-62-2	Vanadium	0.057	0.0025	0.50	0.57	103	85 - 120	0.56	102	1	25
7440-66-6	Zinc	0.010	0.012	0.50	0.51	99	60 - 137	0.49	95	4	25

General Chemistry Quality Control Summary

Analytical Batch 479656	**Client ID**	MB479656			LCS479656		
Prep Batch N/A	**GCAL ID**	1057841			1057842		
	Sample Type	Method Blank			LCS		
	Analytical Date	04/27/2012 14:45			04/27/2012 14:45		
	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	968	96.8	90 - 110

Analytical Batch 479656	**Client ID**	S10-MW01		1057711DUP		
Prep Batch N/A	**GCAL ID**	21204270910		1057843		
	Sample Type	SAMPLE		DUP		
	Analytical Date	04/27/2012 14:45		04/27/2012 14:45		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	12860	7.00	13000	0.77	5

General Chemistry Quality Control Summary

Analytical Batch 479635	**Client ID**	MB479635			LCS479635		
Prep Batch N/A	**GCAL ID**	1057705			1057706		
	Sample Type	Method Blank			LCS		
	Analytical Date	04/27/2012 13:50			04/27/2012 14:08		
	Matrix	Water			Water		
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.69	107	80 - 120
14797-55-8	Nitrate	0.078U	0.078	2.50	2.68	107	80 - 120
14797-65-0	Nitrite	0.059U	0.059	2.50	2.58	103	80 - 120
16984-48-8	Fluoride	0.086U	0.086	2.50	2.45	98.1	80 - 120
14808-79-8	Sulfate	0.079U	0.079	5.00	5.27	105	80 - 120

Analytical Batch 479635	**Client ID**	S10-MW01			S10-MW01-MS			S10-MW01-MSD			
Prep Batch N/A	**GCAL ID**	21204270910			21204270912			21204270913			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	04/27/2012 14:25			04/27/2012 14:43			04/27/2012 15:01			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16984-48-8	Fluoride	3.34	1.72	50.0	53.0	99.4	75 - 125	53.1	99.6	0.22	25
14797-55-8	Nitrate	5.42	1.56	50.0	58.5	106	75 - 125	58.8	107	0.43	25

Analytical Batch 479635	**Client ID**	S10-MW01			S10-MW01-MS			S10-MW01-MSD			
Prep Batch N/A	**GCAL ID**	21204270910			21204270912			21204270913			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	04/27/2012 23:16			04/27/2012 23:34			04/28/2012 00:27			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	2.95	125	144	115	75 - 125	143	114	0.48	25

General Chemistry Quality Control Summary

Analytical Batch 479635	**Client ID**	S10-MW01			S10-MW01-MS			S10-MW01-MSD			
Prep Batch N/A	**GCAL ID**	21204270910			21204270912			21204270913			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	04/27/2012 15:36			04/27/2012 15:54			04/27/2012 16:11			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	3330	42.0	5000	9020	114	75 - 125	9030	114	0.086	25
14808-79-8	Sulfate	5940	158	10000	17200	112	75 - 125	16900	110	1.4	25

NATIONVIEW/4771/212042709/5-8-12

Project No: 10-0004

COC Number(1): 04262012-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q2)

Client Name: USACE-Omaha District

Collected by: Wyeth Bowdoin/Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC(8260B)	TAL Metals [Dissolved] 6010B/7470A	TAL Metals [Total] 6010B/7470A	TDS (SM19 2540C)	Choloride, Flouride, Nitrate/Nitrite, Sulfate (300/9056)			Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)								Quality Assurance Samples (6)				
MW-08-01	MW-08-01	4-25-2012	1110	-	N	1	WG	6	x	x	x	x							1	1
MW-08-01A	MW-08-01	4-25-2012	1110	-	FD	1	WG	6	x	x	x	x							1	2
MW-08-02	MW-08-02	4-25-2012	1015	-	N	1	WG	6	x	x	x	x							1	3
MW-08-03	MW-08-03	4-25-2012	0815 +330		N	1	WG	6	x	x	x	x							1	4
MW-08-04	MW-08-04	4-24-2012	1400		N	1	WG	6	x	x	x	x							1	5
MW-08-05	MW-08-05	4-24-2012	1545	-	N	1	WG	6	x	x	x	x							1	6
MW-08-06	MW-08-06	4-24-2012	1120	-	N	1	WG	6	x	x	x	x							1	7
MW-08-07	MW-08-07	4-25-2012	0915	-	N	1	WG	6	x	x	x	x							2	8
MW-08-08	MW-08-08	4-24-2012	1230	-	N	1	WG	6	x	x	x	x							2	9
SIO-MW01		4-25-2012	1500	-	N	1	WG	7	x	x	x	x	x						2	10
SWMU183-MW03		4-25-2012	1330	-	N	1	WG	7	x	x	x	x	x						2	11

COMMENTS: 1.9, 2.8
7983 2965 9964 7983 29660020

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	4/26/2012	1500	1. Fed Ex.		
2. Fed Ex.			2. [signature]	4-27-12	0935
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex.
Analytical Lab:
Lab Recipient:

Shipped No.:
Airbill Number: 7983 2965 9964
Delivery Location:
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW/4771/212042709/5-8-12

Project No: 10-0004

COC Number(1): 04262012-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q2)

Client Name: USACE-Omaha District

Collected by: Wyeth Bowdoin/Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC(8260B)	TAL Metals [Dissolved] 6010B/7470A	TAL Metals [Total] 6010B/7470A	TDS (SM19 2540C)	Choloride, Flouride, Nitrate/Nitrite, Sulfate (300/9056)			Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)								Quality Assurance Samples (6)				
S10-MW01-MS		4-25-2012	1500	-	MS	1	WG	7	X	X	X	X	X						2	12
S10-MW01-MSD		4-25-2012	1500	-	SD	1	WG	7	X	X	X	X	X						2	13
TRIP BLANK				-	TB	1	WQ	3	X									2069100	2	14
TRIP BLANK					TB	1	WQ	3	X									2069100	1	15
				-																
				-																
				-																
				-																
				-																
				-																
				-																

COMMENTS: 1.9°
7983 2965 9964

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [illegible]	4/26/2012	1500	1. Fed Ex.		
2. Fed Ex.			2. Eric Martinez	4-27-12	0935
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab:

Lab Recipient:

Shipped No.:

Airbill Number: 7983 2965 9964

Delivery Location:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 212042709

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 3 - SD-08

Received by: Saucier, Charlotte

Received Date/Time: 4/27/2012 9:35:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 2

Cooler tracking numbers(s): 7983 2965 9964, 7983 2966 0020

Cooler temperature(s): 1.9, 2.8

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
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments:

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 05/31/2012

GCAL Report 212052408

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB SD08 Qrtly GW-Q2

CASE NARRATIVE

Client: NationView LLC **Report:** 212052408

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 481964, the LCS and/or LCSD recoveries are above the upper control limit for Bromochloromethane, Bromodichloromethane and cis-1,2-Dichloroethene. These compounds were not detected in the associated samples.

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
Technical Director
GCAL REPORT 212052408

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21205240801	S10-MW01	Water	05/23/2012 08:45	05/24/2012 09:10
21205240802	S10-MW01-A	Water	05/23/2012 08:45	05/24/2012 09:10

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21205240801	**S10-MW01**	Water	05/23/2012 08:45	05/24/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	**1,2-Dichloroethane**	**20.2**	**5.00**	**0.119**	**ug/L**
79-01-6	**Trichloroethene**	**1.74J**	**5.00**	**0.151**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21205240802	**S10-MW01-A**	Water	05/23/2012 08:45	05/24/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	**1,2-Dichloroethane**	**14.1**	**5.00**	**0.119**	**ug/L**
79-01-6	**Trichloroethene**	**0.733J**	**5.00**	**0.151**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21205240801	**S10-MW01**	Water	05/23/2012 08:45	05/24/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/26/2012 00:11	CEK	481964

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	**1,2-Dichloroethane**	**20.2**	**5.00**	**0.119**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21205240801	**S10-MW01**	Water	05/23/2012 08:45	05/24/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/26/2012 00:11	CEK	481964

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	**Trichloroethene**	**1.74J**	**5.00**	**0.151**	**ug/L**
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.8	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	53.9	ug/L	108	87 - 116
2037-26-5	Toluene d8	50	46.3	ug/L	93	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	54.7	ug/L	109	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21205240802	**S10-MW01-A**	Water	05/23/2012 08:45	05/24/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/30/2012 19:08	CLH	482194

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	**1,2-Dichloroethane**	**14.1**	**5.00**	**0.119**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21205240802	**S10-MW01-A**	Water	05/23/2012 08:45	05/24/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/30/2012 19:08	CLH	482194

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	**Trichloroethene**	**0.733J**	**5.00**	**0.151**	**ug/L**
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.8	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.1	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.6	ug/L	99	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch	481964	**Client ID**	MB481964			LCS481964			LCSD481964			
Prep Batch	N/A	**GCAL ID**	1068747			1068748			1068749			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	05/25/2012 22:27			05/25/2012 21:24			05/25/2012 21:45			
		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		0.399U	0.399	50.0	51.9	104	59 - 134	52.5	105	1	30
74-97-5	Bromochloromethane		0.127U	0.127	50.0	59.7	**119***	78 - 112	64.6	**129***	8	30
75-27-4	Bromodichloromethane		0.076U	0.076	50.0	58.8	**118***	76 - 116	59.6	**119***	1	30
75-25-2	Bromoform		0.150U	0.150	50.0	43.1	86	68 - 128	46.8	94	8	30
74-83-9	Bromomethane		0.427U	0.427	50.0	45.1	90	55 - 151	52.6	105	15	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	58.7	117	67 - 147	58.0	116	1	30
56-23-5	Carbon tetrachloride		0.146U	0.146	50.0	57.4	115	74 - 139	59.3	119	3	30
75-00-3	Chloroethane		0.235U	0.235	50.0	55.8	112	54 - 166	53.1	106	5	30
136777-61-2	m,p-Xylene		0.237U	0.237	100	98.2	98	83 - 121	99.3	99	1	30
67-66-3	Chloroform		0.109U	0.109	50.0	57.9	116	85 - 123	59.8	120	3	30
74-87-3	Chloromethane		0.058U	0.058	50.0	53.4	107	55 - 173	56.8	114	6	30
124-48-1	Dibromochloromethane		0.076U	0.076	50.0	49.2	98	74 - 116	50.5	101	3	30
74-95-3	Dibromomethane		0.131U	0.131	50.0	54.7	109	81 - 116	52.8	106	4	30
75-71-8	Dichlorodifluoromethane		0.154U	0.154	50.0	49.9	100	34 - 158	50.0	100	0.2	30
75-34-3	1,1-Dichloroethane		0.138U	0.138	50.0	59.3	119	82 - 127	59.2	118	0.2	30
107-06-2	1,2-Dichloroethane		0.119U	0.119	50.0	56.9	114	76 - 122	59.6	119	5	30
156-59-2	cis-1,2-Dichloroethene		0.134U	0.134	50.0	59.2	**118***	81 - 114	60.5	**121***	2	30
156-60-5	trans-1,2-Dichloroethene		0.075U	0.075	50.0	58.1	116	82 - 126	58.5	117	0.7	30
75-09-2	Methylene chloride		0.149U	0.149	50.0	55.7	111	69 - 125	57.8	116	4	30
78-87-5	1,2-Dichloropropane		0.150U	0.150	50.0	59.9	120	81 - 120	57.4	115	4	30
10061-01-5	cis-1,3-Dichloropropene		0.092U	0.092	50.0	57.7	115	83 - 119	59.1	118	2	30
10061-02-6	trans-1,3-Dichloropropene		0.146U	0.146	50.0	55.1	110	87 - 123	59.4	119	8	30
100-41-4	Ethylbenzene		0.119U	0.119	50.0	49.8	100	87 - 118	49.7	99	0.2	30
591-78-6	2-Hexanone		0.093U	0.093	50.0	39.1	78	58 - 125	42.0	84	7	30
98-82-8	Isopropylbenzene (Cumene)		0.123U	0.123	50.0	49.3	99	87 - 131	49.1	98	0.4	30
78-93-3	2-Butanone		0.362U	0.362	50.0	51.1	102	61 - 127	53.1	106	4	30
74-88-4	Methyl iodide		0.084U	0.084	50.0	44.5	89	72 - 125	52.3	105	16	30
108-10-1	4-Methyl-2-pentanone		0.079U	0.079	50.0	51.8	104	62 - 125	53.6	107	3	30
103-65-1	n-Propylbenzene		0.102U	0.102	50.0	52.1	104	86 - 125	48.7	97	7	30
100-42-5	Styrene		0.098U	0.098	50.0	50.6	101	78 - 118	52.1	104	3	30
127-18-4	Tetrachloroethene		0.126U	0.126	50.0	46.8	94	80 - 131	48.2	96	3	30
630-20-6	1,1,1,2-Tetrachloroethane		0.103U	0.103	50.0	49.8	100	81 - 119	50.7	101	2	30
79-34-5	1,1,2,2-Tetrachloroethane		0.108U	0.108	50.0	43.8	88	71 - 120	46.5	93	6	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 481964	**Client ID**	MB481964	LCS481964	LCSD481964
Prep Batch N/A	**GCAL ID**	1068747	1068748	1068749
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	05/25/2012 22:27	05/25/2012 21:24	05/25/2012 21:45
	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	0.156U	0.156	50.0	48.9	98	68 - 123	46.8	94	4	30
71-55-6	1,1,1-Trichloroethane	0.085U	0.085	50.0	59.6	119	79 - 133	59.3	119	0.5	30
79-00-5	1,1,2-Trichloroethane	0.147U	0.147	50.0	48.3	97	80 - 114	49.5	99	2	30
75-69-4	Trichlorofluoromethane	0.131U	0.131	50.0	56.6	113	66 - 156	53.6	107	5	30
96-18-4	1,2,3-Trichloropropane	0.098U	0.098	50.0	45.2	90	77 - 115	47.3	95	5	30
95-63-6	1,2,4-Trimethylbenzene	0.102U	0.102	50.0	50.8	102	82 - 120	51.9	104	2	30
108-67-8	1,3,5-Trimethylbenzene	0.075U	0.075	50.0	52.6	105	83 - 123	50.7	101	4	30
75-01-4	Vinyl chloride	0.137U	0.137	50.0	55.3	111	57 - 153	56.0	112	1	30
95-47-6	o-Xylene	0.147U	0.147	50.0	49.6	99	83 - 121	48.6	97	2	30
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	0.178	50.0	37.9	76	61 - 118	39.6	79	4	30
106-93-4	1,2-Dibromoethane	0.100U	0.100	50.0	44.4	89	80 - 115	45.8	92	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	0.060	50.0	52.2	104	75 - 116	54.3	109	4	30
540-59-0	1,2-Dichloroethene(Total)	0.209U	0.209	100	117	117	74 - 128	119	119	2	30
99-87-6	4-Isopropyltoluene	0.082U	0.082	50.0	53.5	107	83 - 125	50.4	101	6	30
1330-20-7	Xylene (total)	0.384U	0.384	150	148	99	74 - 127	148	99	0	30
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	0.312	50.0	37.7	75	51 - 137	37.0	74	2	30
594-20-7	2,2-Dichloropropane	0.181U	0.181	50.0	54.6	109	77 - 138	54.5	109	0.2	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158	50.0	58.3	117	74 - 139	57.3	115	2	30
563-58-6	1,1-Dichloropropene	0.121U	0.121	50.0	58.1	116	87 - 127	57.5	115	1	30
142-28-9	1,3-Dichloropropane	0.072U	0.072	50.0	46.9	94	81 - 113	49.1	98	5	30
108-86-1	Bromobenzene	0.109U	0.109	50.0	50.1	100	83 - 115	50.0	100	0.2	30
95-49-8	2-Chlorotoluene	0.108U	0.108	50.0	51.2	102	81 - 121	49.1	98	4	30
106-43-4	4-Chlorotoluene	0.117U	0.117	50.0	52.0	104	84 - 120	50.1	100	4	30
98-06-6	tert-Butylbenzene	0.097U	0.097	50.0	52.3	105	83 - 126	50.6	101	3	30
135-98-8	sec-Butylbenzene	0.111U	0.111	50.0	54.3	109	86 - 127	48.8	98	11	30
541-73-1	1,3-Dichlorobenzene	0.135U	0.135	50.0	49.8	100	86 - 115	49.3	99	1	30
106-46-7	1,4-Dichlorobenzene	0.110U	0.110	50.0	49.9	100	87 - 113	48.7	97	2	30
104-51-8	n-Butylbenzene	0.152U	0.152	50.0	54.8	110	84 - 124	50.7	101	8	30
95-50-1	1,2-Dichlorobenzene	0.117U	0.117	50.0	48.0	96	85 - 115	48.2	96	0.4	30
87-68-3	Hexachlorobutadiene	0.211U	0.211	50.0	49.7	99	71 - 133	47.7	95	4	30
91-20-3	Naphthalene	0.065U	0.065	50.0	45.2	90	59 - 125	46.1	92	2	35
75-35-4	1,1-Dichloroethene	0.208U	0.208	50.0	58.8	118	75 - 133	58.6	117	0.3	20
71-43-2	Benzene	0.099U	0.099	50.0	55.9	112	83 - 124	58.2	116	4	20

GC/MS Volatiles Quality Control Summary

Analytical Batch 481964		**Client ID**	MB481964			LCS481964			LCSD481964		
Prep Batch N/A		**GCAL ID**	1068747			1068748			1068749		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/25/2012 22:27			05/25/2012 21:24			05/25/2012 21:45		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.151U	0.151	50.0	55.7	111	85 - 124	58.1	116	4	20
108-88-3	Toluene		0.127U	0.127	50.0	47.8	96	86 - 116	49.7	99	4	20
108-90-7	Chlorobenzene		0.089U	0.089	50.0	49.0	98	87 - 115	49.6	99	1	20
Surrogate												
460-00-4	4-Bromofluorobenzene		49.1	98	50	48.3	97	84 - 120	50.4	101		
1868-53-7	Dibromofluoromethane		52.2	104	50	53.4	107	87 - 116	53.7	107		
2037-26-5	Toluene d8		46.4	93	50	44.5	89	86 - 112	46.2	92		
17060-07-0	1,2-Dichloroethane-d4		53.9	108	50	52.6	105	76 - 127	52.5	105		

Analytical Batch 482194		**Client ID**	MB482194			LCS482194			LCSD482194		
Prep Batch N/A		**GCAL ID**	1069573			1069574			1069575		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/30/2012 16:14			05/30/2012 15:09			05/30/2012 15:31		
		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		0.399U	0.399	50.0	46.5	93	59 - 134	48.3	97	4	30
74-97-5	Bromochloromethane		0.127U	0.127	50.0	47.3	95	78 - 112	47.0	94	0.6	30
75-27-4	Bromodichloromethane		0.076U	0.076	50.0	49.4	99	76 - 116	48.3	97	2	30
75-25-2	Bromoform		0.150U	0.150	50.0	49.0	98	68 - 128	49.5	99	1	30
74-83-9	Bromomethane		0.427U	0.427	50.0	41.4	83	55 - 151	41.6	83	0.5	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	46.4	93	67 - 147	44.9	90	3	30
56-23-5	Carbon tetrachloride		0.146U	0.146	50.0	46.5	93	74 - 139	46.1	92	0.9	30
75-00-3	Chloroethane		0.235U	0.235	50.0	44.9	90	54 - 166	43.8	88	2	30
136777-61-2	m,p-Xylene		0.237U	0.237	100	97.7	98	83 - 121	96.2	96	2	30
67-66-3	Chloroform		0.109U	0.109	50.0	47.5	95	85 - 123	47.0	94	1	30
74-87-3	Chloromethane		0.058U	0.058	50.0	42.5	85	55 - 173	44.1	88	4	30
124-48-1	Dibromochloromethane		0.076U	0.076	50.0	50.5	101	74 - 116	50.5	101	0	30
74-95-3	Dibromomethane		0.131U	0.131	50.0	47.3	95	81 - 116	47.4	95	0.2	30
75-71-8	Dichlorodifluoromethane		0.154U	0.154	50.0	45.1	90	34 - 158	43.3	87	4	30
75-34-3	1,1-Dichloroethane		0.138U	0.138	50.0	47.4	95	82 - 127	46.4	93	2	30
107-06-2	1,2-Dichloroethane		0.119U	0.119	50.0	46.5	93	76 - 122	46.6	93	0.2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 482194		**Client ID**	MB482194			LCS482194			LCSD482194		
Prep Batch N/A		**GCAL ID**	1069573			1069574			1069575		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/30/2012 16:14			05/30/2012 15:09			05/30/2012 15:31		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
156-59-2	cis-1,2-Dichloroethene	0.134U	0.134		50.0	46.0	92	81 - 114	45.6	91	0.9	30
156-60-5	trans-1,2-Dichloroethene	0.075U	0.075		50.0	45.8	92	82 - 126	45.1	90	2	30
75-09-2	Methylene chloride	0.149U	0.149		50.0	42.6	85	69 - 125	42.3	85	0.7	30
78-87-5	1,2-Dichloropropane	0.150U	0.150		50.0	46.9	94	81 - 120	46.4	93	1	30
10061-01-5	cis-1,3-Dichloropropene	0.092U	0.092		50.0	49.0	98	83 - 119	48.4	97	1	30
10061-02-6	trans-1,3-Dichloropropene	0.146U	0.146		50.0	49.3	99	87 - 123	49.4	99	0.2	30
100-41-4	Ethylbenzene	0.119U	0.119		50.0	49.2	98	87 - 118	48.0	96	2	30
591-78-6	2-Hexanone	0.093U	0.093		50.0	50.1	100	58 - 125	51.5	103	3	30
98-82-8	Isopropylbenzene (Cumene)	0.123U	0.123		50.0	50.4	101	87 - 131	49.0	98	3	30
78-93-3	2-Butanone	0.362U	0.362		50.0	48.3	97	61 - 127	50.0	100	3	30
74-88-4	Methyl iodide	0.084U	0.084		50.0	47.1	94	72 - 125	45.5	91	3	30
108-10-1	4-Methyl-2-pentanone	0.079U	0.079		50.0	50.3	101	62 - 125	51.9	104	3	30
103-65-1	n-Propylbenzene	0.102U	0.102		50.0	48.8	98	86 - 125	47.4	95	3	30
100-42-5	Styrene	0.098U	0.098		50.0	49.7	99	78 - 118	49.2	98	1	30
127-18-4	Tetrachloroethene	0.126U	0.126		50.0	47.2	94	80 - 131	45.9	92	3	30
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	0.103		50.0	48.4	97	81 - 119	48.2	96	0.4	30
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	0.108		50.0	48.6	97	71 - 120	48.1	96	1	30
120-82-1	1,2,4-Trichlorobenzene	0.156U	0.156		50.0	52.7	105	68 - 123	50.4	101	4	30
71-55-6	1,1,1-Trichloroethane	0.085U	0.085		50.0	46.0	92	79 - 133	44.9	90	2	30
79-00-5	1,1,2-Trichloroethane	0.147U	0.147		50.0	49.4	99	80 - 114	49.2	98	0.4	30
75-69-4	Trichlorofluoromethane	0.131U	0.131		50.0	45.6	91	66 - 156	44.7	89	2	30
96-18-4	1,2,3-Trichloropropane	0.098U	0.098		50.0	49.7	99	77 - 115	50.7	101	2	30
95-63-6	1,2,4-Trimethylbenzene	0.102U	0.102		50.0	49.0	98	82 - 120	47.4	95	3	30
108-67-8	1,3,5-Trimethylbenzene	0.075U	0.075		50.0	49.3	99	83 - 123	47.4	95	4	30
75-01-4	Vinyl chloride	0.137U	0.137		50.0	46.6	93	57 - 153	45.9	92	2	30
95-47-6	o-Xylene	0.147U	0.147		50.0	48.6	97	83 - 121	48.6	97	0	30
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	0.178		50.0	48.7	97	61 - 118	49.3	99	1	30
106-93-4	1,2-Dibromoethane	0.100U	0.100		50.0	50.2	100	80 - 115	50.6	101	0.8	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	0.060		50.0	49.1	98	75 - 116	49.3	99	0.4	30
540-59-0	1,2-Dichloroethene(Total)	0.209U	0.209		100	91.8	92	74 - 128	90.7	91	1	30
99-87-6	4-Isopropyltoluene	0.082U	0.082		50.0	50.1	100	83 - 125	48.4	97	3	30
1330-20-7	Xylene (total)	0.384U	0.384		150	146	97	74 - 127	145	97	0.7	30
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	0.312		50.0	52.4	105	51 - 137	52.9	106	0.9	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	482194	**Client ID**	MB482194			LCS482194			LCSD482194		
Prep Batch	N/A	**GCAL ID**	1069573			1069574			1069575		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/30/2012 16:14			05/30/2012 15:09			05/30/2012 15:31		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
594-20-7	2,2-Dichloropropane	0.181U		0.181	50.0	44.0	88	77 - 138	42.5	85	3	30
76-13-1	Trichlorotrifluoroethane	0.158U		0.158	50.0	45.2	90	74 - 139	44.0	88	3	30
563-58-6	1,1-Dichloropropene	0.121U		0.121	50.0	45.7	91	87 - 127	45.1	90	1	30
142-28-9	1,3-Dichloropropane	0.072U		0.072	50.0	48.0	96	81 - 113	47.9	96	0.2	30
108-86-1	Bromobenzene	0.109U		0.109	50.0	47.3	95	83 - 115	46.4	93	2	30
95-49-8	2-Chlorotoluene	0.108U		0.108	50.0	49.1	98	81 - 121	47.2	94	4	30
106-43-4	4-Chlorotoluene	0.117U		0.117	50.0	48.4	97	84 - 120	47.2	94	3	30
98-06-6	tert-Butylbenzene	0.097U		0.097	50.0	49.3	99	83 - 126	47.9	96	3	30
135-98-8	sec-Butylbenzene	0.111U		0.111	50.0	49.9	100	86 - 127	48.6	97	3	30
541-73-1	1,3-Dichlorobenzene	0.135U		0.135	50.0	48.6	97	86 - 115	47.8	96	2	30
106-46-7	1,4-Dichlorobenzene	0.110U		0.110	50.0	48.8	98	87 - 113	47.0	94	4	30
104-51-8	n-Butylbenzene	0.152U		0.152	50.0	50.3	101	84 - 124	48.2	96	4	30
95-50-1	1,2-Dichlorobenzene	0.117U		0.117	50.0	49.8	100	85 - 115	48.4	97	3	30
87-68-3	Hexachlorobutadiene	0.211U		0.211	50.0	47.1	94	71 - 133	45.5	91	3	30
91-20-3	Naphthalene	0.065U		0.065	50.0	51.5	103	59 - 125	51.5	103	0	35
75-35-4	1,1-Dichloroethene	0.208U		0.208	50.0	45.5	91	75 - 133	44.5	89	2	20
71-43-2	Benzene	0.099U		0.099	50.0	47.2	94	83 - 124	46.6	93	1	20
79-01-6	Trichloroethene	0.151U		0.151	50.0	47.5	95	85 - 124	47.8	96	0.6	20
108-88-3	Toluene	0.127U		0.127	50.0	47.7	95	86 - 116	46.8	94	2	20
108-90-7	Chlorobenzene	0.089U		0.089	50.0	48.7	97	87 - 115	48.2	96	1	20
Surrogate												
460-00-4	4-Bromofluorobenzene	50.2		100	50	51	102	84 - 120	50.6	101		
1868-53-7	Dibromofluoromethane	49.5		99	50	50.1	100	87 - 116	49.5	99		
2037-26-5	Toluene d8	51.1		102	50	50.4	101	86 - 112	50.2	100		
17060-07-0	1,2-Dichloroethane-d4	49.5		99	50	49.7	99	76 - 127	49.2	98		

NATIONVIEW / 4771 / 212052408 / 5/29/12

Page: 1 of 1

Project No: 10-0004

COC Number(1): 05232012-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q2)

Client Name: USACE - Omaha District

Collected by: Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC(8260B)								Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
S10-MW01	S10-MW01	23/05/2012	0845	-	N	1	WG	3	X												1
S10-MW01A	S10-MW01-A	23/05/2012	0845	-	FD	1	WG	3	X												2
~~Trip Blank~~					~~TB~~	~~1~~	~~WG~~	~~3~~	~~X~~										~~1109020~~	~~Comm~~	
				-																	
				-																	
				-																	
				-																	
				-																	
				-																	

COMMENTS: NOTE - 72 Hr Turnaround Temp: 5.7

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	05/23/12	1130	1. fed-ex		
2. Fed Ex			2. Odie McCune	5-24-12	9:10
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: Fed Ex

Airbill Number: 7984 2926 0396

Analytical Lab: GCAL

Delivery Location:

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

7984 2926 0396

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 212052408

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 4 - 3 day SD-08

Received by: Pfeifer, Ben J.

Received Date/Time: 5/24/2012 9:10:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 1

Cooler tracking numbers(s): 7984 2926 0396

Cooler temperature(s): 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
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☑ Yes	☐ No	☐ N/A

Notes/Comments:

D-4

LTM Quarter 3 (Jul 2012, NationView)

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 08/03/2012

GCAL Report 212072410

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB SD08 Qrtly GW-Q3

CASE NARRATIVE

Client: NationView LLC **Report:** 212072410

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 486362, the MS/MSD exhibited a recovery failure. All LCS/LCSD recoveries are acceptable.

METALS

The dissolved concentration for some analytes is slightly greater than total concentration of these analytes in sample 21207241001 (MW-08-06). This is attributed to separate aliquots of sample.

In the SW-846 6010B analysis, all 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 6010B analysis for prep batch 486199, the MS and/or MSD recovery is outside the control limits for 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 121%. The MS/MSD recoveries are not applicable for Calcium, Magnesium and Sodium because the sample concentration is greater than four times the spike concentration. Calcium was detected in the method blank at a concentration above the reporting limit. The concentration is less than 10% of the concentration detected in the associated sample.

In the SW-846 6010B analysis for prep batch 486198, the MS and/or MSD recovery is outside the control limits for 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 134%. The MS/MSD recoveries are not applicable for Calcium, Magnesium and Sodium because the sample concentration is greater than four times the spike concentration.

CONVENTIONALS

In the EPA 300.0 analysis, samples 21207241001 (MW-08-06), 21207241002 (MW-08-06-MS) and 21207241003 (MW-08-06-MSD) had to be diluted in order to bracket the concentration of target analtyes within the calibration range of the instrument and to eliminate background interference. The dilutions are reflected in elevated detection limits

In the EPA 300.0 analysis for analytical batch 486277, the MS/MSD recovery is outside control limits for Nitrite. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

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
Technical Director
GCAL REPORT 212072410

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241001	MW-08-06	Water	07/23/2012 11:40	07/24/2012 10:25
21207241002	MW-08-06-MS	Water	07/23/2012 11:40	07/24/2012 10:25
21207241003	MW-08-06-MSD	Water	07/23/2012 11:40	07/24/2012 10:25
21207241004	TRIP BLANK	Water	07/23/2012 00:00	07/24/2012 10:25

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241001	**MW-08-06**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.020	0.010	0.0035	mg/L
7440-39-3	Barium	0.0023J	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.0014J	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.0044J	0.0050	0.00010	mg/L
7440-70-2	Calcium	537	0.10	0.024	mg/L
7440-47-3	Chromium	0.022	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.00067J	0.010	0.00052	mg/L
7440-50-8	Copper	0.017	0.010	0.0017	mg/L
7439-95-4	Magnesium	875	0.10	0.012	mg/L
7440-09-7	Potassium	30.2	0.50	0.041	mg/L
7440-62-2	Vanadium	0.033	0.020	0.0012	mg/L
7440-66-6	Zinc	0.010J	0.020	0.0059	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	5550	10.0	0.56	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.073J	0.10	0.027	mg/L
7782-49-2	Selenium	0.016J	0.040	0.0038	mg/L
7440-28-0	Thallium	0.0037J	0.020	0.0026	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.022	0.010	0.0035	mg/L
7440-39-3	Barium	0.0019J	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.0016J	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.0039J	0.0050	0.00010	mg/L
7440-70-2	Calcium	507	0.10	0.024	mg/L
7440-47-3	Chromium	0.017	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.00077J	0.010	0.00052	mg/L
7440-50-8	Copper	0.017	0.010	0.0017	mg/L
7439-95-4	Magnesium	828	0.10	0.012	mg/L
7440-09-7	Potassium	28.0	0.50	0.041	mg/L
7440-62-2	Vanadium	0.029	0.020	0.0012	mg/L
7440-66-6	Zinc	0.0080J	0.020	0.0059	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4690	10.0	0.56	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241001	MW-08-06	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	Selenium	0.020J	0.040	0.0038	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.35J	5.00	0.399	ug/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	1.14	1.00	0.860	mg/L
14797-55-8	Nitrate	15.9	5.00	0.780	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	19900	10.0	7.00	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	6240	500	105	mg/L
14808-79-8	Sulfate	7970	1000	395	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241002	MW-08-06-MS	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 7470A Water

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00383	0.00020	0.000075	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.59	0.010	0.0035	mg/L
7440-39-3	Barium	0.51	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.50	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.48	0.0050	0.00010	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241002	**MW-08-06-MS**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	510	0.10	0.024	mg/L
7440-47-3	Chromium	0.51	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.48	0.010	0.00052	mg/L
7440-50-8	Copper	0.55	0.010	0.0017	mg/L
7439-92-1	Lead	0.45	0.015	0.0028	mg/L
7439-95-4	Magnesium	829	0.10	0.012	mg/L
7439-96-5	Manganese	0.48	0.015	0.00083	mg/L
7440-02-0	Nickel	0.47	0.040	0.00084	mg/L
7440-09-7	Potassium	41.4	0.50	0.041	mg/L
7440-22-4	Silver	0.57	0.010	0.00064	mg/L
7440-62-2	Vanadium	0.57	0.020	0.0012	mg/L
7440-66-6	Zinc	0.56	0.020	0.0059	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4850	10.0	0.56	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.97	0.20	0.024	mg/L
7440-36-0	Antimony	0.57	0.060	0.0040	mg/L
7439-89-6	Iron	4.99	0.10	0.027	mg/L
7782-49-2	Selenium	0.64	0.040	0.0038	mg/L
7440-28-0	Thallium	0.50	0.020	0.0026	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00394	0.00020	0.000075	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.54	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.59	0.010	0.0035	mg/L
7440-39-3	Barium	0.49	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.50	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.47	0.0050	0.00010	mg/L
7440-70-2	Calcium	501	0.10	0.024	mg/L
7440-47-3	Chromium	0.50	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.47	0.010	0.00052	mg/L
7440-50-8	Copper	0.55	0.010	0.0017	mg/L
7439-92-1	Lead	0.45	0.015	0.0028	mg/L
7439-95-4	Magnesium	813	0.10	0.012	mg/L
7439-96-5	Manganese	0.46	0.015	0.00083	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241002	**MW-08-06-MS**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-02-0	Nickel	0.46	0.040	0.00084	mg/L
7440-09-7	Potassium	40.6	0.50	0.041	mg/L
7440-22-4	Silver	0.55	0.010	0.00064	mg/L
7440-62-2	Vanadium	0.55	0.020	0.0012	mg/L
7440-66-6	Zinc	0.55	0.020	0.0059	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4920	10.0	0.56	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.88	0.20	0.024	mg/L
7439-89-6	Iron	4.75	0.10	0.027	mg/L
7782-49-2	Selenium	0.61	0.040	0.0038	mg/L
7440-28-0	Thallium	0.48	0.020	0.0026	mg/L

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	48.4	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	47.2	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	54.5	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	49.5	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	50.1	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	44.0	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	48.4	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	52.6	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	51.3	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	48.3	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	45.9	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	47.6	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	47.2	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	46.0	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	97.8	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	53.1	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	47.6	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	47.2	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	47.1	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	47.0	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	47.8	5.00	0.181	ug/L
78-93-3	2-Butanone	43.6	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	48.3	5.00	0.108	ug/L
591-78-6	2-Hexanone	43.9	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	48.9	5.00	0.117	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241002	**MW-08-06-MS**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
99-87-6	4-Isopropyltoluene	46.8	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	50.7	5.00	0.079	ug/L
67-64-1	Acetone	33.5	5.00	0.399	ug/L
71-43-2	Benzene	51.8	5.00	0.099	ug/L
108-86-1	Bromobenzene	50.1	5.00	0.109	ug/L
74-97-5	Bromochloromethane	50.0	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	50.8	5.00	0.076	ug/L
75-25-2	Bromoform	45.3	5.00	0.150	ug/L
74-83-9	Bromomethane	41.6	5.00	0.427	ug/L
75-15-0	Carbon disulfide	47.7	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	49.6	5.00	0.146	ug/L
108-90-7	Chlorobenzene	47.7	5.00	0.089	ug/L
75-00-3	Chloroethane	51.4	5.00	0.235	ug/L
67-66-3	Chloroform	51.4	5.00	0.109	ug/L
74-87-3	Chloromethane	52.2	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	49.9	5.00	0.076	ug/L
74-95-3	Dibromomethane	51.5	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	49.3	5.00	0.154	ug/L
100-41-4	Ethylbenzene	46.7	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	47.0	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	45.8	5.00	0.123	ug/L
74-88-4	Methyl iodide	43.7	5.00	0.084	ug/L
75-09-2	Methylene chloride	50.9	5.00	0.149	ug/L
91-20-3	Naphthalene	53.0	5.00	0.065	ug/L
100-42-5	Styrene	47.6	5.00	0.098	ug/L
127-18-4	Tetrachloroethene	45.8	5.00	0.126	ug/L
108-88-3	Toluene	47.2	5.00	0.127	ug/L
79-01-6	Trichloroethene	47.1	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	43.4	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	48.0	5.00	0.158	ug/L
75-01-4	Vinyl chloride	49.3	5.00	0.137	ug/L
1330-20-7	Xylene (total)	140	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	49.0	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	49.8	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	93.7	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	46.7	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	49.1	5.00	0.102	ug/L
95-47-6	o-Xylene	46.4	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	48.3	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	45.0	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	46.4	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	48.8	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	49.6	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	44.9	5.00	0.312	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241002	MW-08-06-MS	Water	07/23/2012 11:40	07/24/2012 10:25

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	23.3	1.00	0.860	mg/L
14797-55-8	Nitrate	43.3	5.00	0.780	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	160	25.0	2.95	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	19200	500	105	mg/L
14808-79-8	Sulfate	20400	1000	395	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241003	MW-08-06-MSD	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00375	0.00020	0.000075	mg/L

SW-846 7470A Water

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00389	0.00020	0.000075	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.56	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.63	0.010	0.0035	mg/L
7440-39-3	Barium	0.51	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.52	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.49	0.0050	0.00010	mg/L
7440-70-2	Calcium	554	0.10	0.024	mg/L
7440-47-3	Chromium	0.52	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.49	0.010	0.00052	mg/L
7440-50-8	Copper	0.58	0.010	0.0017	mg/L
7439-92-1	Lead	0.46	0.015	0.0028	mg/L
7439-95-4	Magnesium	899	0.10	0.012	mg/L
7439-96-5	Manganese	0.49	0.015	0.00083	mg/L
7440-02-0	Nickel	0.48	0.040	0.00084	mg/L
7440-09-7	Potassium	42.1	0.50	0.041	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241003	**MW-08-06-MSD**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.59	0.010	0.00064	mg/L
7440-62-2	Vanadium	0.58	0.020	0.0012	mg/L
7440-66-6	Zinc	0.58	0.020	0.0059	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	5070	10.0	0.56	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.18	0.20	0.024	mg/L
7439-89-6	Iron	4.99	0.10	0.027	mg/L
7782-49-2	Selenium	0.65	0.040	0.0038	mg/L
7440-28-0	Thallium	0.51	0.020	0.0026	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.61	0.010	0.0035	mg/L
7440-39-3	Barium	0.51	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.51	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.48	0.0050	0.00010	mg/L
7440-70-2	Calcium	507	0.10	0.024	mg/L
7440-47-3	Chromium	0.52	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.49	0.010	0.00052	mg/L
7440-50-8	Copper	0.56	0.010	0.0017	mg/L
7439-92-1	Lead	0.46	0.015	0.0028	mg/L
7439-95-4	Magnesium	825	0.10	0.012	mg/L
7439-96-5	Manganese	0.49	0.015	0.00083	mg/L
7440-02-0	Nickel	0.48	0.040	0.00084	mg/L
7440-09-7	Potassium	44.1	0.50	0.041	mg/L
7440-22-4	Silver	0.58	0.010	0.00064	mg/L
7440-62-2	Vanadium	0.58	0.020	0.0012	mg/L
7440-66-6	Zinc	0.57	0.020	0.0059	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	5290	10.0	0.56	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.15	0.20	0.024	mg/L
7440-36-0	Antimony	0.58	0.060	0.0040	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241003	**MW-08-06-MSD**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	5.22	0.10	0.027	mg/L
7782-49-2	Selenium	0.64	0.040	0.0038	mg/L
7440-28-0	Thallium	0.51	0.020	0.0026	mg/L

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	46.1	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	43.7	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.6	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	48.3	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	47.0	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	41.3	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	44.3	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	51.9	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	54.7	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	46.1	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	49.0	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	46.9	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	46.0	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	44.7	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	90.8	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	50.6	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	45.3	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	45.1	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	46.1	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	45.3	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	43.5	5.00	0.181	ug/L
78-93-3	2-Butanone	43.0	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	45.9	5.00	0.108	ug/L
591-78-6	2-Hexanone	44.3	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	46.5	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	44.7	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	51.1	5.00	0.079	ug/L
67-64-1	Acetone	32.0	5.00	0.399	ug/L
71-43-2	Benzene	48.3	5.00	0.099	ug/L
108-86-1	Bromobenzene	47.9	5.00	0.109	ug/L
74-97-5	Bromochloromethane	48.2	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	48.0	5.00	0.076	ug/L
75-25-2	Bromoform	44.2	5.00	0.150	ug/L
74-83-9	Bromomethane	40.5	5.00	0.427	ug/L
75-15-0	Carbon disulfide	44.3	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	45.5	5.00	0.146	ug/L
108-90-7	Chlorobenzene	45.3	5.00	0.089	ug/L
75-00-3	Chloroethane	47.4	5.00	0.235	ug/L
67-66-3	Chloroform	48.2	5.00	0.109	ug/L
74-87-3	Chloromethane	49.7	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	48.0	5.00	0.076	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241003	**MW-08-06-MSD**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
74-95-3	Dibromomethane	49.6	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	46.1	5.00	0.154	ug/L
100-41-4	Ethylbenzene	43.6	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	50.7	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	43.0	5.00	0.123	ug/L
74-88-4	Methyl iodide	40.6	5.00	0.084	ug/L
75-09-2	Methylene chloride	48.5	5.00	0.149	ug/L
91-20-3	Naphthalene	58.1	5.00	0.065	ug/L
100-42-5	Styrene	44.6	5.00	0.098	ug/L
127-18-4	Tetrachloroethene	41.8	5.00	0.126	ug/L
108-88-3	Toluene	45.1	5.00	0.127	ug/L
79-01-6	Trichloroethene	44.2	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	40.6	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	45.0	5.00	0.158	ug/L
75-01-4	Vinyl chloride	46.1	5.00	0.137	ug/L
1330-20-7	Xylene (total)	132	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	46.1	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	47.5	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	88.2	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	45.0	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	45.9	5.00	0.102	ug/L
95-47-6	o-Xylene	44.1	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	45.8	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	44.0	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	44.0	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	44.8	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	48.2	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	44.1	5.00	0.312	ug/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	23.5	1.00	0.860	mg/L
14797-55-8	Nitrate	43.3	5.00	0.780	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	19100	500	105	mg/L
14808-79-8	Sulfate	20500	1000	395	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	161	25.0	2.95	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241001	**MW-08-06**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 17:20	CEK	486362

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	**Acetone**	**1.35J**	**5.00**	**0.399**	**ug/L**
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241001	**MW-08-06**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 17:20	CEK	486362

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45	ug/L	90	84 - 120
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	51.2	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486197	SW-846 7470A Dissolved	1	07/30/2012 15:30	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486197	SW-846 7470A	1	07/30/2012 15:20	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241001	**MW-08-06**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486198	SW-846 3010A	1	07/29/2012 15:45	BNB	486562

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	**Arsenic**	**0.020**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.0023J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	**Beryllium**	**0.0014J**	**0.0050**	**0.000082**	**mg/L**
7440-43-9	**Cadmium**	**0.0044J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**537**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.022**	**0.010**	**0.00034**	**mg/L**
7440-48-4	**Cobalt**	**0.00067J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.017**	**0.010**	**0.0017**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**875**	**0.10**	**0.012**	**mg/L**
7439-96-5	Manganese	0.00083U	0.015	0.00083	mg/L
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7440-09-7	**Potassium**	**30.2**	**0.50**	**0.041**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-62-2	**Vanadium**	**0.033**	**0.020**	**0.0012**	**mg/L**
7440-66-6	**Zinc**	**0.010J**	**0.020**	**0.0059**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486198	SW-846 3010A	10	07/31/2012 14:39	CLB	486711

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**5550**	**10.0**	**0.56**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486198	SW-846 3010A	1	08/01/2012 13:09	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7439-89-6	**Iron**	**0.073J**	**0.10**	**0.027**	**mg/L**
7782-49-2	**Selenium**	**0.016J**	**0.040**	**0.0038**	**mg/L**
7440-28-0	**Thallium**	**0.0037J**	**0.020**	**0.0026**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486199	SW-846 3005 Dissolved	1	07/29/2012 14:22	BNB	486562

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.022**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.0019J**	**0.010**	**0.0016**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241001	**MW-08-06**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486199	SW-846 3005 Dissolved	1	07/29/2012 14:22	BNB	486562

CAS#	Parameter	Result	RDL	MDL	Units
7440-41-7	**Beryllium**	**0.0016J**	**0.0050**	**0.000082**	**mg/L**
7440-43-9	**Cadmium**	**0.0039J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**507**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.017**	**0.010**	**0.00034**	**mg/L**
7440-48-4	**Cobalt**	**0.00077J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.017**	**0.010**	**0.0017**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**828**	**0.10**	**0.012**	**mg/L**
7439-96-5	Manganese	0.00083U	0.015	0.00083	mg/L
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7440-09-7	**Potassium**	**28.0**	**0.50**	**0.041**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-62-2	**Vanadium**	**0.029**	**0.020**	**0.0012**	**mg/L**
7440-66-6	**Zinc**	**0.0080J**	**0.020**	**0.0059**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486199	SW-846 3005 Dissolved	10	07/31/2012 13:51	CLB	486711

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4690**	**10.0**	**0.56**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486199	SW-846 3005 Dissolved	1	08/01/2012 12:37	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7782-49-2	**Selenium**	**0.020J**	**0.040**	**0.0038**	**mg/L**
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/24/2012 15:30	DJH	486226

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**19900**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241001	**MW-08-06**	Water	07/23/2012 11:40	07/24/2012 10:25

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/24/2012 20:23	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**1.14**	**1.00**	**0.860**	**mg/L**
14797-55-8	**Nitrate**	**15.9**	**5.00**	**0.780**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/25/2012 08:49	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	2.95U	25.0	2.95	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	07/25/2012 09:42	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**6240**	**500**	**105**	**mg/L**
14808-79-8	**Sulfate**	**7970**	**1000**	**395**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241002	**MW-08-06-MS**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 17:40	CEK	486362

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	48.4	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	47.2	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	54.5	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	49.5	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	50.1	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	44.0	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	48.4	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	52.6	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	51.3	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	48.3	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	45.9	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	47.6	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	47.2	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	46.0	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	97.8	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	53.1	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	47.6	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	47.2	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	47.1	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	47.0	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	47.8	5.00	0.181	ug/L
78-93-3	2-Butanone	43.6	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	48.3	5.00	0.108	ug/L
591-78-6	2-Hexanone	43.9	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	48.9	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	46.8	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	50.7	5.00	0.079	ug/L
67-64-1	Acetone	33.5	5.00	0.399	ug/L
71-43-2	Benzene	51.8	5.00	0.099	ug/L
108-86-1	Bromobenzene	50.1	5.00	0.109	ug/L
74-97-5	Bromochloromethane	50.0	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	50.8	5.00	0.076	ug/L
75-25-2	Bromoform	45.3	5.00	0.150	ug/L
74-83-9	Bromomethane	41.6	5.00	0.427	ug/L
75-15-0	Carbon disulfide	47.7	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	49.6	5.00	0.146	ug/L
108-90-7	Chlorobenzene	47.7	5.00	0.089	ug/L
75-00-3	Chloroethane	51.4	5.00	0.235	ug/L
67-66-3	Chloroform	51.4	5.00	0.109	ug/L
74-87-3	Chloromethane	52.2	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	49.9	5.00	0.076	ug/L
74-95-3	Dibromomethane	51.5	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	49.3	5.00	0.154	ug/L
100-41-4	Ethylbenzene	46.7	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	47.0	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	45.8	5.00	0.123	ug/L
74-88-4	Methyl iodide	43.7	5.00	0.084	ug/L
75-09-2	Methylene chloride	50.9	5.00	0.149	ug/L
91-20-3	Naphthalene	53.0	5.00	0.065	ug/L
100-42-5	Styrene	47.6	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241002	**MW-08-06-MS**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 17:40	CEK	486362

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**45.8**	**5.00**	**0.126**	**ug/L**
108-88-3	**Toluene**	**47.2**	**5.00**	**0.127**	**ug/L**
79-01-6	**Trichloroethene**	**47.1**	**5.00**	**0.151**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**43.4**	**5.00**	**0.131**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**48.0**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**49.3**	**5.00**	**0.137**	**ug/L**
1330-20-7	**Xylene (total)**	**140**	**15.0**	**0.384**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**49.0**	**5.00**	**0.134**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**49.8**	**5.00**	**0.092**	**ug/L**
136777-61-2	**m,p-Xylene**	**93.7**	**10.0**	**0.237**	**ug/L**
104-51-8	**n-Butylbenzene**	**46.7**	**5.00**	**0.152**	**ug/L**
103-65-1	**n-Propylbenzene**	**49.1**	**5.00**	**0.102**	**ug/L**
95-47-6	**o-Xylene**	**46.4**	**5.00**	**0.147**	**ug/L**
135-98-8	**sec-Butylbenzene**	**48.3**	**5.00**	**0.111**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**45.0**	**5.00**	**0.060**	**ug/L**
98-06-6	**tert-Butylbenzene**	**46.4**	**5.00**	**0.097**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**48.8**	**5.00**	**0.075**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**49.6**	**5.00**	**0.146**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**44.9**	**5.00**	**0.312**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.8	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	48.2	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.7	ug/L	99	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486197	SW-846 7470A Dissolved	1	07/30/2012 15:31	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00394**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486197	SW-846 7470A	1	07/30/2012 15:22	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00383**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241002	**MW-08-06-MS**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486198	SW-846 3010A	1	07/29/2012 15:52	BNB	486562

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.59	0.010	0.0035	mg/L
7440-39-3	Barium	0.51	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.50	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.48	0.0050	0.00010	mg/L
7440-70-2	Calcium	510	0.10	0.024	mg/L
7440-47-3	Chromium	0.51	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.48	0.010	0.00052	mg/L
7440-50-8	Copper	0.55	0.010	0.0017	mg/L
7439-92-1	Lead	0.45	0.015	0.0028	mg/L
7439-95-4	Magnesium	829	0.10	0.012	mg/L
7439-96-5	Manganese	0.48	0.015	0.00083	mg/L
7440-02-0	Nickel	0.47	0.040	0.00084	mg/L
7440-09-7	Potassium	41.4	0.50	0.041	mg/L
7440-22-4	Silver	0.57	0.010	0.00064	mg/L
7440-62-2	Vanadium	0.57	0.020	0.0012	mg/L
7440-66-6	Zinc	0.56	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486198	SW-846 3010A	10	07/31/2012 14:46	CLB	486711

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4850	10.0	0.56	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486198	SW-846 3010A	1	08/01/2012 13:16	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.97	0.20	0.024	mg/L
7440-36-0	Antimony	0.57	0.060	0.0040	mg/L
7439-89-6	Iron	4.99	0.10	0.027	mg/L
7782-49-2	Selenium	0.64	0.040	0.0038	mg/L
7440-28-0	Thallium	0.50	0.020	0.0026	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486199	SW-846 3005 Dissolved	1	07/29/2012 15:04	BNB	486562

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.54	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.59	0.010	0.0035	mg/L
7440-39-3	Barium	0.49	0.010	0.0016	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241002	**MW-08-06-MS**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486199	SW-846 3005 Dissolved	1	07/29/2012 15:04	BNB	486562

CAS#	Parameter	Result	RDL	MDL	Units
7440-41-7	**Beryllium**	**0.50**	**0.0050**	**0.000082**	**mg/L**
7440-43-9	**Cadmium**	**0.47**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**501**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.50**	**0.010**	**0.00034**	**mg/L**
7440-48-4	**Cobalt**	**0.47**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.55**	**0.010**	**0.0017**	**mg/L**
7439-92-1	**Lead**	**0.45**	**0.015**	**0.0028**	**mg/L**
7439-95-4	**Magnesium**	**813**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**0.46**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.46**	**0.040**	**0.00084**	**mg/L**
7440-09-7	**Potassium**	**40.6**	**0.50**	**0.041**	**mg/L**
7440-22-4	**Silver**	**0.55**	**0.010**	**0.00064**	**mg/L**
7440-62-2	**Vanadium**	**0.55**	**0.020**	**0.0012**	**mg/L**
7440-66-6	**Zinc**	**0.55**	**0.020**	**0.0059**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486199	SW-846 3005 Dissolved	10	07/31/2012 13:58	CLB	486711

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4920**	**10.0**	**0.56**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486199	SW-846 3005 Dissolved	1	08/01/2012 12:44	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4.88**	**0.20**	**0.024**	**mg/L**
7439-89-6	**Iron**	**4.75**	**0.10**	**0.027**	**mg/L**
7782-49-2	**Selenium**	**0.61**	**0.040**	**0.0038**	**mg/L**
7440-28-0	**Thallium**	**0.48**	**0.020**	**0.0026**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/24/2012 20:40	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**23.3**	**1.00**	**0.860**	**mg/L**
14797-55-8	**Nitrate**	**43.3**	**5.00**	**0.780**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241002	**MW-08-06-MS**	Water	07/23/2012 11:40	07/24/2012 10:25

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/25/2012 09:06	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**160**	**25.0**	**2.95**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	07/25/2012 09:59	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**19200**	**500**	**105**	**mg/L**
14808-79-8	**Sulfate**	**20400**	**1000**	**395**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241003	**MW-08-06-MSD**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 18:00	CEK	486362

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	46.1	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	43.7	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.6	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	48.3	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	47.0	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	41.3	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	44.3	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	51.9	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	54.7	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	46.1	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	49.0	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	46.9	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	46.0	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	44.7	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	90.8	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	50.6	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	45.3	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	45.1	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	46.1	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	45.3	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	43.5	5.00	0.181	ug/L
78-93-3	2-Butanone	43.0	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	45.9	5.00	0.108	ug/L
591-78-6	2-Hexanone	44.3	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	46.5	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	44.7	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	51.1	5.00	0.079	ug/L
67-64-1	Acetone	32.0	5.00	0.399	ug/L
71-43-2	Benzene	48.3	5.00	0.099	ug/L
108-86-1	Bromobenzene	47.9	5.00	0.109	ug/L
74-97-5	Bromochloromethane	48.2	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	48.0	5.00	0.076	ug/L
75-25-2	Bromoform	44.2	5.00	0.150	ug/L
74-83-9	Bromomethane	40.5	5.00	0.427	ug/L
75-15-0	Carbon disulfide	44.3	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	45.5	5.00	0.146	ug/L
108-90-7	Chlorobenzene	45.3	5.00	0.089	ug/L
75-00-3	Chloroethane	47.4	5.00	0.235	ug/L
67-66-3	Chloroform	48.2	5.00	0.109	ug/L
74-87-3	Chloromethane	49.7	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	48.0	5.00	0.076	ug/L
74-95-3	Dibromomethane	49.6	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	46.1	5.00	0.154	ug/L
100-41-4	Ethylbenzene	43.6	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	50.7	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	43.0	5.00	0.123	ug/L
74-88-4	Methyl iodide	40.6	5.00	0.084	ug/L
75-09-2	Methylene chloride	48.5	5.00	0.149	ug/L
91-20-3	Naphthalene	58.1	5.00	0.065	ug/L
100-42-5	Styrene	44.6	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241003	**MW-08-06-MSD**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 18:00	CEK	486362

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**41.8**	**5.00**	**0.126**	**ug/L**
108-88-3	**Toluene**	**45.1**	**5.00**	**0.127**	**ug/L**
79-01-6	**Trichloroethene**	**44.2**	**5.00**	**0.151**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**40.6**	**5.00**	**0.131**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**45.0**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**46.1**	**5.00**	**0.137**	**ug/L**
1330-20-7	**Xylene (total)**	**132**	**15.0**	**0.384**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**46.1**	**5.00**	**0.134**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**47.5**	**5.00**	**0.092**	**ug/L**
136777-61-2	**m,p-Xylene**	**88.2**	**10.0**	**0.237**	**ug/L**
104-51-8	**n-Butylbenzene**	**45.0**	**5.00**	**0.152**	**ug/L**
103-65-1	**n-Propylbenzene**	**45.9**	**5.00**	**0.102**	**ug/L**
95-47-6	**o-Xylene**	**44.1**	**5.00**	**0.147**	**ug/L**
135-98-8	**sec-Butylbenzene**	**45.8**	**5.00**	**0.111**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**44.0**	**5.00**	**0.060**	**ug/L**
98-06-6	**tert-Butylbenzene**	**44.0**	**5.00**	**0.097**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**44.8**	**5.00**	**0.075**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**48.2**	**5.00**	**0.146**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**44.1**	**5.00**	**0.312**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.9	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	48.3	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.9	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486197	SW-846 7470A Dissolved	1	07/30/2012 15:33	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00375**	**0.00020**	**0.000075**	**mg/L**

SW-846 7470A Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486197	SW-846 7470A	1	07/30/2012 15:27	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00389**	**0.00020**	**0.000075**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241003	**MW-08-06-MSD**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486198	SW-846 3010A	1	07/29/2012 15:58	BNB	486562

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.61	0.010	0.0035	mg/L
7440-39-3	Barium	0.51	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.51	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.48	0.0050	0.00010	mg/L
7440-70-2	Calcium	507	0.10	0.024	mg/L
7440-47-3	Chromium	0.52	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.49	0.010	0.00052	mg/L
7440-50-8	Copper	0.56	0.010	0.0017	mg/L
7439-92-1	Lead	0.46	0.015	0.0028	mg/L
7439-95-4	Magnesium	825	0.10	0.012	mg/L
7439-96-5	Manganese	0.49	0.015	0.00083	mg/L
7440-02-0	Nickel	0.48	0.040	0.00084	mg/L
7440-09-7	Potassium	44.1	0.50	0.041	mg/L
7440-22-4	Silver	0.58	0.010	0.00064	mg/L
7440-62-2	Vanadium	0.58	0.020	0.0012	mg/L
7440-66-6	Zinc	0.57	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486198	SW-846 3010A	10	07/31/2012 14:53	CLB	486711

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	5290	10.0	0.56	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486198	SW-846 3010A	1	08/01/2012 13:22	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.15	0.20	0.024	mg/L
7440-36-0	Antimony	0.58	0.060	0.0040	mg/L
7439-89-6	Iron	5.22	0.10	0.027	mg/L
7782-49-2	Selenium	0.64	0.040	0.0038	mg/L
7440-28-0	Thallium	0.51	0.020	0.0026	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486199	SW-846 3005 Dissolved	1	07/29/2012 15:11	BNB	486562

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.56	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.63	0.010	0.0035	mg/L
7440-39-3	Barium	0.51	0.010	0.0016	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241003	**MW-08-06-MSD**	Water	07/23/2012 11:40	07/24/2012 10:25

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486199	SW-846 3005 Dissolved	1	07/29/2012 15:11	BNB	486562

CAS#	Parameter	Result	RDL	MDL	Units
7440-41-7	Beryllium	0.52	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.49	0.0050	0.00010	mg/L
7440-70-2	Calcium	554	0.10	0.024	mg/L
7440-47-3	Chromium	0.52	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.49	0.010	0.00052	mg/L
7440-50-8	Copper	0.58	0.010	0.0017	mg/L
7439-92-1	Lead	0.46	0.015	0.0028	mg/L
7439-95-4	Magnesium	899	0.10	0.012	mg/L
7439-96-5	Manganese	0.49	0.015	0.00083	mg/L
7440-02-0	Nickel	0.48	0.040	0.00084	mg/L
7440-09-7	Potassium	42.1	0.50	0.041	mg/L
7440-22-4	Silver	0.59	0.010	0.00064	mg/L
7440-62-2	Vanadium	0.58	0.020	0.0012	mg/L
7440-66-6	Zinc	0.58	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486199	SW-846 3005 Dissolved	10	07/31/2012 14:05	CLB	486711

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	5070	10.0	0.56	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:00	486199	SW-846 3005 Dissolved	1	08/01/2012 12:50	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.18	0.20	0.024	mg/L
7439-89-6	Iron	4.99	0.10	0.027	mg/L
7782-49-2	Selenium	0.65	0.040	0.0038	mg/L
7440-28-0	Thallium	0.51	0.020	0.0026	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/24/2012 20:58	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	23.5	1.00	0.860	mg/L
14797-55-8	Nitrate	43.3	5.00	0.780	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241003	**MW-08-06-MSD**	Water	07/23/2012 11:40	07/24/2012 10:25

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/25/2012 09:24	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**161**	**25.0**	**2.95**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	07/25/2012 10:17	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**19100**	**500**	**105**	**mg/L**
14808-79-8	**Sulfate**	**20500**	**1000**	**395**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241004	**TRIP BLANK**	Water	07/23/2012 00:00	07/24/2012 10:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 18:40	CEK	486362

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207241004	**TRIP BLANK**	Water	07/23/2012 00:00	07/24/2012 10:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 18:40	CEK	486362

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.7	ug/L	89	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	50.9	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.9	ug/L	100	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 486362		**Client ID**	MB486362			LCS486362			LCSD486362		
Prep Batch N/A		**GCAL ID**	1090344			1090345			1090346		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/26/2012 11:47			07/26/2012 10:05			07/26/2012 10:26		
		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	0.399U		0.399	50.0	32.3	65	59 - 134	34.3	69	6	30
74-97-5	Bromochloromethane	0.127U		0.127	50.0	45.8	92	78 - 112	47.7	95	4	30
75-27-4	Bromodichloromethane	0.076U		0.076	50.0	47.0	94	76 - 116	48.2	96	3	30
75-25-2	Bromoform	0.150U		0.150	50.0	39.2	78	68 - 128	42.4	85	8	30
74-83-9	Bromomethane	0.427U		0.427	50.0	34.9	70	55 - 151	36.8	74	5	30
75-15-0	Carbon disulfide	0.190U		0.190	50.0	46.7	93	67 - 147	45.8	92	2	30
56-23-5	Carbon tetrachloride	0.146U		0.146	50.0	46.7	93	74 - 139	46.9	94	0.4	30
75-00-3	Chloroethane	0.235U		0.235	50.0	46.5	93	54 - 166	47.8	96	3	30
136777-61-2	m,p-Xylene	0.237U		0.237	100	91.4	91	83 - 121	92.6	93	1	30
67-66-3	Chloroform	0.109U		0.109	50.0	46.5	93	85 - 123	48.1	96	3	30
74-87-3	Chloromethane	0.058U		0.058	50.0	51.3	103	55 - 173	50.5	101	2	30
124-48-1	Dibromochloromethane	0.076U		0.076	50.0	44.9	90	74 - 116	48.5	97	8	30
74-95-3	Dibromomethane	0.131U		0.131	50.0	45.0	90	81 - 116	47.7	95	6	30
75-71-8	Dichlorodifluoromethane	0.154U		0.154	50.0	46.4	93	34 - 158	48.4	97	4	30
75-34-3	1,1-Dichloroethane	0.138U		0.138	50.0	46.9	94	82 - 127	47.4	95	1	30
107-06-2	1,2-Dichloroethane	0.119U		0.119	50.0	41.0	82	76 - 122	43.6	87	6	30
156-59-2	cis-1,2-Dichloroethene	0.134U		0.134	50.0	46.2	92	81 - 114	46.7	93	1	30
156-60-5	trans-1,2-Dichloroethene	0.075U		0.075	50.0	45.9	92	82 - 126	46.2	92	0.7	30
75-09-2	Methylene chloride	0.149U		0.149	50.0	45.5	91	69 - 125	46.3	93	2	30
78-87-5	1,2-Dichloropropane	0.150U		0.150	50.0	48.9	98	81 - 120	50.7	101	4	30
10061-01-5	cis-1,3-Dichloropropene	0.092U		0.092	50.0	47.0	94	83 - 119	48.2	96	3	30
10061-02-6	trans-1,3-Dichloropropene	0.146U		0.146	50.0	45.0	90	87 - 123	47.3	95	5	30
100-41-4	Ethylbenzene	0.119U		0.119	50.0	44.8	90	87 - 118	45.6	91	2	30
591-78-6	2-Hexanone	0.093U		0.093	50.0	34.4	69	58 - 125	39.0	78	13	30
98-82-8	Isopropylbenzene (Cumene)	0.123U		0.123	50.0	47.1	94	87 - 131	45.8	92	3	30
78-93-3	2-Butanone	0.362U		0.362	50.0	37.2	74	61 - 127	39.9	80	7	30
74-88-4	Methyl iodide	0.084U		0.084	50.0	43.5	87	72 - 125	43.1	86	0.9	30
108-10-1	4-Methyl-2-pentanone	0.079U		0.079	50.0	36.5	73	62 - 125	40.6	81	11	30
103-65-1	n-Propylbenzene	0.102U		0.102	50.0	49.6	99	86 - 125	48.3	97	3	30
100-42-5	Styrene	0.098U		0.098	50.0	45.5	91	78 - 118	46.6	93	2	30
127-18-4	Tetrachloroethene	0.126U		0.126	50.0	44.0	88	80 - 131	44.4	89	0.9	30
630-20-6	1,1,1,2-Tetrachloroethane	0.103U		0.103	50.0	46.1	92	81 - 119	47.6	95	3	30
79-34-5	1,1,2,2-Tetrachloroethane	0.108U		0.108	50.0	43.0	86	71 - 120	47.0	94	9	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 486362	**Client ID**	MB486362	LCS486362	LCSD486362	
Prep Batch N/A	**GCAL ID**	1090344	1090345	1090346	
	Sample Type	Method Blank	LCS	LCSD	
	Analytical Date	07/26/2012 11:47	07/26/2012 10:05	07/26/2012 10:26	
	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	0.156U	0.156	50.0	46.6	93	68 - 123	50.9	102	9	30
71-55-6	1,1,1-Trichloroethane	0.085U	0.085	50.0	44.1	88	79 - 133	45.6	91	3	30
79-00-5	1,1,2-Trichloroethane	0.147U	0.147	50.0	43.7	87	80 - 114	47.1	94	7	30
75-69-4	Trichlorofluoromethane	0.131U	0.131	50.0	39.4	79	66 - 156	39.8	80	1	30
96-18-4	1,2,3-Trichloropropane	0.098U	0.098	50.0	41.7	83	77 - 115	45.3	91	8	30
95-63-6	1,2,4-Trimethylbenzene	0.102U	0.102	50.0	48.9	98	82 - 120	47.8	96	2	30
108-67-8	1,3,5-Trimethylbenzene	0.075U	0.075	50.0	48.6	97	83 - 123	47.5	95	2	30
75-01-4	Vinyl chloride	0.137U	0.137	50.0	46.9	94	57 - 153	46.3	93	1	30
95-47-6	o-Xylene	0.147U	0.147	50.0	45.1	90	83 - 121	46.3	93	3	30
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	0.178	50.0	34.5	69	61 - 118	40.4	81	16	30
106-93-4	1,2-Dibromoethane	0.100U	0.100	50.0	41.0	82	80 - 115	45.7	91	11	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	0.060	50.0	38.6	77	75 - 116	41.3	83	7	30
540-59-0	1,2-Dichloroethene(Total)	0.209U	0.209	100	92.1	92	74 - 128	92.9	93	0.9	30
99-87-6	4-Isopropyltoluene	0.082U	0.082	50.0	50.2	100	83 - 125	47.9	96	5	30
1330-20-7	Xylene (total)	0.384U	0.384	150	137	91	74 - 127	139	93	1	30
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	0.312	50.0	36.4	73	51 - 137	39.3	79	8	30
594-20-7	2,2-Dichloropropane	0.181U	0.181	50.0	44.9	90	77 - 138	45.3	91	0.9	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158	50.0	46.0	92	74 - 139	45.2	90	2	30
563-58-6	1,1-Dichloropropene	0.121U	0.121	50.0	46.4	93	87 - 127	45.9	92	1	30
142-28-9	1,3-Dichloropropane	0.072U	0.072	50.0	42.3	85	81 - 113	45.1	90	6	30
108-86-1	Bromobenzene	0.109U	0.109	50.0	47.5	95	83 - 115	48.8	98	3	30
95-49-8	2-Chlorotoluene	0.108U	0.108	50.0	47.3	95	81 - 121	47.4	95	0.2	30
106-43-4	4-Chlorotoluene	0.117U	0.117	50.0	47.8	96	84 - 120	48.2	96	0.8	30
98-06-6	tert-Butylbenzene	0.097U	0.097	50.0	48.3	97	83 - 126	46.7	93	3	30
135-98-8	sec-Butylbenzene	0.111U	0.111	50.0	51.6	103	86 - 127	48.7	97	6	30
541-73-1	1,3-Dichlorobenzene	0.135U	0.135	50.0	46.1	92	86 - 115	46.5	93	0.9	30
106-46-7	1,4-Dichlorobenzene	0.110U	0.110	50.0	45.5	91	87 - 113	46.4	93	2	30
104-51-8	n-Butylbenzene	0.152U	0.152	50.0	52.2	104	84 - 124	48.9	98	7	30
95-50-1	1,2-Dichlorobenzene	0.117U	0.117	50.0	45.2	90	85 - 115	46.2	92	2	30
87-68-3	Hexachlorobutadiene	0.211U	0.211	50.0	56.7	113	71 - 133	53.6	107	6	30
91-20-3	Naphthalene	0.065U	0.065	50.0	38.3	77	59 - 125	47.0	94	20	35
75-35-4	1,1-Dichloroethene	0.208U	0.208	50.0	41.4	83	75 - 133	41.5	83	0.2	20
71-43-2	Benzene	0.099U	0.099	50.0	47.2	94	83 - 124	47.7	95	1	20

GC/MS Volatiles Quality Control Summary

Analytical Batch 486362		**Client ID**	MB486362			LCS486362			LCSD486362		
Prep Batch N/A		**GCAL ID**	1090344			1090345			1090346		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/26/2012 11:47			07/26/2012 10:05			07/26/2012 10:26		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.151U	0.151	50.0	44.4	89	85 - 124	45.7	91	3	20
108-88-3	Toluene		0.127U	0.127	50.0	45.7	91	86 - 116	46.7	93	2	20
108-90-7	Chlorobenzene		0.089U	0.089	50.0	45.3	91	87 - 115	46.8	94	3	20
Surrogate												
460-00-4	4-Bromofluorobenzene		45.4	91	50	46.2	92	84 - 120	46.7	93		
1868-53-7	Dibromofluoromethane		49.8	100	50	49.7	99	87 - 116	49.7	99		
2037-26-5	Toluene d8		49.6	99	50	48.6	97	86 - 112	49.8	100		
17060-07-0	1,2-Dichloroethane-d4		48.9	98	50	48.1	96	76 - 127	48.3	97		

Analytical Batch 486362		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21207241001			21207241002			21207241003		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/26/2012 17:20			07/26/2012 17:40			07/26/2012 18:00		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**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	0.103	50.0	48.4	97	81 - 119	46.1	92	5	10
71-55-6	1,1,1-Trichloroethane		0.00	0.085	50.0	47.2	94	79 - 133	43.7	87	8	11
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.108	50.0	54.5	109	71 - 120	53.6	107	2	11
79-00-5	1,1,2-Trichloroethane		0.00	0.147	50.0	49.5	99	80 - 114	48.3	97	2	11
75-34-3	1,1-Dichloroethane		0.00	0.138	50.0	50.1	100	82 - 127	47.0	94	6	10
75-35-4	1,1-Dichloroethene		0.00	0.208	50.0	44.0	88	75 - 133	41.3	83	6	13
563-58-6	1,1-Dichloropropene		0.00	0.121	50.0	48.4	97	87 - 127	44.3	89	9	10
96-18-4	1,2,3-Trichloropropane		0.00	0.098	50.0	52.6	105	77 - 115	51.9	104	1	12
120-82-1	1,2,4-Trichlorobenzene		0.00	0.156	50.0	51.3	103	68 - 123	54.7	109	6	11
95-63-6	1,2,4-Trimethylbenzene		0.00	0.102	50.0	48.3	97	82 - 120	46.1	92	5	10
96-12-8	1,2-Dibromo-3-chloropropane		0.00	0.178	50.0	45.9	92	61 - 118	49.0	98	7	15
106-93-4	1,2-Dibromoethane		0.00	0.100	50.0	47.6	95	80 - 115	46.9	94	1	10
95-50-1	1,2-Dichlorobenzene		0.00	0.117	50.0	47.2	94	85 - 115	46.0	92	3	9
107-06-2	1,2-Dichloroethane		0.00	0.119	50.0	46.0	92	76 - 122	44.7	89	3	11
540-59-0	1,2-Dichloroethene(Total)		0.00	0.209	100	97.8	98	74 - 128	90.8	91	7	30
78-87-5	1,2-Dichloropropane		0.00	0.150	50.0	53.1	106	81 - 120	50.6	101	5	11

GC/MS Volatiles Quality Control Summary

Analytical Batch 486362		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21207241001			21207241002			21207241003		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/26/2012 17:20			07/26/2012 17:40			07/26/2012 18:00		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
108-67-8	1,3,5-Trimethylbenzene		0.00	0.075	50.0	47.6	95	83 - 123	45.3	91	5	10
541-73-1	1,3-Dichlorobenzene		0.00	0.135	50.0	47.2	94	86 - 115	45.1	90	5	9
142-28-9	1,3-Dichloropropane		0.00	0.072	50.0	47.1	94	81 - 113	46.1	92	2	11
106-46-7	1,4-Dichlorobenzene		0.00	0.110	50.0	47.0	94	87 - 113	45.3	91	4	10
594-20-7	2,2-Dichloropropane		0.00	0.181	50.0	47.8	96	77 - 138	43.5	87	9	12
78-93-3	2-Butanone		0.00	0.362	50.0	43.6	87	61 - 127	43.0	86	1	13
95-49-8	2-Chlorotoluene		0.00	0.108	50.0	48.3	97	81 - 121	45.9	92	5	10
591-78-6	2-Hexanone		0.00	0.093	50.0	43.9	88	58 - 125	44.3	89	0.9	14
106-43-4	4-Chlorotoluene		0.00	0.117	50.0	48.9	98	84 - 120	46.5	93	5	10
99-87-6	4-Isopropyltoluene		0.00	0.082	50.0	46.8	94	83 - 125	44.7	89	5	9
108-10-1	4-Methyl-2-pentanone		0.00	0.079	50.0	50.7	101	62 - 125	51.1	102	0.8	13
67-64-1	Acetone		1.35	0.399	50.0	33.5	64	59 - 134	32.0	61	5	14
71-43-2	Benzene		0.00	0.099	50.0	51.8	104	83 - 124	48.3	97	7	11
108-86-1	Bromobenzene		0.00	0.109	50.0	50.1	100	83 - 115	47.9	96	4	10
74-97-5	Bromochloromethane		0.00	0.127	50.0	50.0	100	78 - 112	48.2	96	4	10
75-27-4	Bromodichloromethane		0.00	0.076	50.0	50.8	102	76 - 116	48.0	96	6	10
75-25-2	Bromoform		0.00	0.150	50.0	45.3	91	68 - 128	44.2	88	2	11
74-83-9	Bromomethane		0.00	0.427	50.0	41.6	83	55 - 151	40.5	81	3	21
75-15-0	Carbon disulfide		0.00	0.190	50.0	47.7	95	67 - 147	44.3	89	7	12
56-23-5	Carbon tetrachloride		0.00	0.146	50.0	49.6	99	74 - 139	45.5	91	9	13
108-90-7	Chlorobenzene		0.00	0.089	50.0	47.7	95	87 - 115	45.3	91	5	9
75-00-3	Chloroethane		0.00	0.235	50.0	51.4	103	54 - 166	47.4	95	8	20
67-66-3	Chloroform		0.00	0.109	50.0	51.4	103	85 - 123	48.2	96	6	10
74-87-3	Chloromethane		0.00	0.058	50.0	52.2	104	55 - 173	49.7	99	5	22
124-48-1	Dibromochloromethane		0.00	0.076	50.0	49.9	100	74 - 116	48.0	96	4	11
74-95-3	Dibromomethane		0.00	0.131	50.0	51.5	103	81 - 116	49.6	99	4	10
75-71-8	Dichlorodifluoromethane		0.00	0.154	50.0	49.3	99	34 - 158	46.1	92	7	22
100-41-4	Ethylbenzene		0.00	0.119	50.0	46.7	93	87 - 118	43.6	87	7	10
87-68-3	Hexachlorobutadiene		0.00	0.211	50.0	47.0	94	71 - 133	50.7	101	8	12
98-82-8	Isopropylbenzene (Cumene)		0.00	0.123	50.0	45.8	92	87 - 131	43.0	**86***	6	10
74-88-4	Methyl iodide		0.00	0.084	50.0	43.7	87	72 - 125	40.6	81	7	11
75-09-2	Methylene chloride		0.00	0.149	50.0	50.9	102	69 - 125	48.5	97	5	11
91-20-3	Naphthalene		0.00	0.065	50.0	53.0	106	59 - 125	58.1	116	9	15

GC/MS Volatiles Quality Control Summary

Analytical Batch 486362		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21207241001			21207241002			21207241003		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/26/2012 17:20			07/26/2012 17:40			07/26/2012 18:00		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-42-5	Styrene		0.00	0.098	50.0	47.6	95	78 - 118	44.6	89	7	11
127-18-4	Tetrachloroethene		0.00	0.126	50.0	45.8	92	80 - 131	41.8	84	9	12
108-88-3	Toluene		0.00	0.127	50.0	47.2	94	86 - 116	45.1	90	5	10
79-01-6	Trichloroethene		0.00	0.151	50.0	47.1	94	85 - 124	44.2	88	6	10
75-69-4	Trichlorofluoromethane		0.00	0.131	50.0	43.4	87	66 - 156	40.6	81	7	15
76-13-1	Trichlorotrifluoroethane		0.00	0.158	50.0	48.0	96	74 - 139	45.0	90	6	13
75-01-4	Vinyl chloride		0.00	0.137	50.0	49.3	99	57 - 153	46.1	92	7	22
1330-20-7	Xylene (total)		0.00	0.384	150	140	93	74 - 127	132	88	6	30
156-59-2	cis-1,2-Dichloroethene		0.00	0.134	50.0	49.0	98	81 - 114	46.1	92	6	10
10061-01-5	cis-1,3-Dichloropropene		0.00	0.092	50.0	49.8	100	83 - 119	47.5	95	5	10
136777-61-2	m,p-Xylene		0.00	0.237	100	93.7	94	83 - 121	88.2	88	6	10
104-51-8	n-Butylbenzene		0.00	0.152	50.0	46.7	93	84 - 124	45.0	90	4	10
103-65-1	n-Propylbenzene		0.00	0.102	50.0	49.1	98	86 - 125	45.9	92	7	10
95-47-6	o-Xylene		0.00	0.147	50.0	46.4	93	83 - 121	44.1	88	5	10
135-98-8	sec-Butylbenzene		0.00	0.111	50.0	48.3	97	86 - 127	45.8	92	5	10
1634-04-4	tert-Butyl methyl ether (MTBE)		0.00	0.060	50.0	45.0	90	75 - 116	44.0	88	2	10
98-06-6	tert-Butylbenzene		0.00	0.097	50.0	46.4	93	83 - 126	44.0	88	5	10
156-60-5	trans-1,2-Dichloroethene		0.00	0.075	50.0	48.8	98	82 - 126	44.8	90	9	10
10061-02-6	trans-1,3-Dichloropropene		0.00	0.146	50.0	49.6	99	87 - 123	48.2	96	3	10
110-57-6	trans-1,4-Dichloro-2-butene		0.00	0.312	50.0	44.9	90	51 - 137	44.1	88	2	24
Surrogate												
460-00-4	4-Bromofluorobenzene		45	90	50	45.8	92	84 - 120	45.9	92		
1868-53-7	Dibromofluoromethane		49.6	99	50	50.4	101	87 - 116	50.4	101		
2037-26-5	Toluene d8		51.2	102	50	48.2	96	86 - 112	48.3	97		
17060-07-0	1,2-Dichloroethane-d4		50.4	101	50	49.7	99	76 - 127	49.9	100		

Inorganics Quality Control Summary

Analytical Batch	486623	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	486197	**GCAL ID**	21207241001	21207241002	21207241003
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	7470A	**Prep Date**	07/24/2012 16:00	07/24/2012 16:00	07/24/2012 16:00
	Dissolved	**Analytical Date**	07/30/2012 15:30	07/30/2012 15:31	07/30/2012 15:33
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.000075	0.00500	0.00394	79	75 - 125	0.00375	75	5	10

Inorganics Quality Control Summary

Analytical Batch	486623	**Client ID**	MB486197	LCS486197
Prep Batch	486197	**GCAL ID**	1089502	1089503
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	07/24/2012 16:00	07/24/2012 16:00
		Analytical Date	07/30/2012 15:17	07/30/2012 15:19
		Matrix	Water	Water

SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000075U	0.000075	0.00500	0.00479	96	80 - 120

Analytical Batch	486623	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	486197	**GCAL ID**	21207241001	21207241002	21207241003
Prep Method	SW-846 7470A	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	07/24/2012 16:00	07/24/2012 16:00	07/24/2012 16:00
		Analytical Date	07/30/2012 15:30	07/30/2012 15:22	07/30/2012 15:27
		Matrix	Water	Water	Water

SW-846 7470A Water		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.000075	0.00500	0.00383	77	75 - 125	0.00389	78	1	20

Inorganics Quality Control Summary

Analytical Batch	486562	**Client ID**	MB486198	LCS486198
Prep Batch	486198	**GCAL ID**	1089504	1089505
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	07/24/2012 16:00	07/24/2012 16:00
		Analytical Date	07/29/2012 15:31	07/29/2012 15:38
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.024U	0.024	5.00	4.76	95	80 - 120
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.48	96	80 - 120
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.51	101	80 - 120
7440-39-3	Barium	0.0016U	0.0016	0.50	0.52	103	80 - 120
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.51	102	80 - 120
7440-43-9	Cadmium	0.00013J	0.00010	0.50	0.51	102	80 - 120
7440-70-2	Calcium	0.024U	0.024	5.00	4.83	97	80 - 120
7440-47-3	Chromium	0.0011J	0.00034	0.50	0.52	104	80 - 120
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.52	104	80 - 120
7440-50-8	Copper	0.0017U	0.0017	0.50	0.51	102	80 - 120
7439-89-6	Iron	0.027U	0.027	5.00	4.78	96	80 - 120
7439-92-1	Lead	0.0028U	0.0028	0.50	0.51	101	80 - 120
7439-95-4	Magnesium	0.016J	0.012	5.00	4.86	97	80 - 120
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.50	101	80 - 120
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.52	104	80 - 120
7440-09-7	Potassium	0.14J	0.041	10.0	9.94	99	80 - 120
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.50	100	80 - 120
7440-22-4	Silver	0.00064U	0.00064	0.50	0.51	102	80 - 120
7440-23-5	Sodium	0.96J	0.056	20.0	21.0	105	80 - 120
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.50	100	80 - 120
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.52	104	80 - 120
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.51	101	80 - 120

Inorganics Quality Control Summary

Analytical Batch	486562	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	486198	**GCAL ID**	21207241001	21207241002	21207241003
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	07/24/2012 16:00	07/24/2012 16:00	07/24/2012 16:00
		Analytical Date	07/29/2012 15:45	07/29/2012 15:52	07/29/2012 15:58
		Matrix	Water	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-38-2	Arsenic	0.020	0.0035	0.50	0.59	114	75 - 125	0.61	118	3	20
7440-39-3	Barium	0.0023	0.0016	0.50	0.51	101	75 - 125	0.51	102	0.9	20
7440-41-7	Beryllium	0.0014	0.000082	0.50	0.50	100	75 - 125	0.51	102	2	20
7440-43-9	Cadmium	0.0044	0.00010	0.50	0.48	95	75 - 125	0.48	96	0.7	20
7440-70-2	Calcium	537	0.024	5.00	510	**-500***	75 - 125	507	**-600***	0.5	20
7440-47-3	Chromium	0.022	0.00034	0.50	0.51	98	75 - 125	0.52	99	1	20
7440-48-4	Cobalt	0.00067	0.00052	0.50	0.48	95	75 - 125	0.49	98	3	20
7440-50-8	Copper	0.017	0.0017	0.50	0.55	107	75 - 125	0.56	109	1	20
7439-92-1	Lead	0.0	0.0028	0.50	0.45	90	75 - 125	0.46	93	3	20
7439-95-4	Magnesium	875	0.012	5.00	829	**-900***	75 - 125	825	**-1000***	0.4	20
7439-96-5	Manganese	0.0	0.00083	0.50	0.48	96	75 - 125	0.49	97	1	20
7440-02-0	Nickel	0.0	0.00084	0.50	0.47	95	75 - 125	0.48	96	2	20
7440-09-7	Potassium	30.2	0.041	10.0	41.4	112	75 - 125	44.1	**139***	6	20
7440-22-4	Silver	0.0	0.00064	0.50	0.57	114	75 - 125	0.58	116	1	20
7440-62-2	Vanadium	0.033	0.0012	0.50	0.57	108	75 - 125	0.58	109	1	20
7440-66-6	Zinc	0.010	0.0059	0.50	0.56	110	75 - 125	0.57	111	1	20

Analytical Batch	486711	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	486198	**GCAL ID**	21207241001	21207241002	21207241003
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	07/24/2012 16:00	07/24/2012 16:00	07/24/2012 16:00
		Analytical Date	07/31/2012 14:39	07/31/2012 14:46	07/31/2012 14:53
		Matrix	Water	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	5550	0.56	20.0	4850	**-3000***	75 - 125	5290	**-1000***	9	20

Inorganics Quality Control Summary

Analytical Batch	486833	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	486198	**GCAL ID**	21207241001	21207241002	21207241003
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	07/24/2012 16:00	07/24/2012 16:00	07/24/2012 16:00
		Analytical Date	08/01/2012 13:09	08/01/2012 13:16	08/01/2012 13:22
		Matrix	Water	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.024	5.00	4.97	99	75 - 125	5.15	103	4	20
7440-36-0	Antimony	0.0	0.0040	0.50	0.57	115	75 - 125	0.58	116	0.8	20
7439-89-6	Iron	0.073	0.027	5.00	4.99	98	75 - 125	5.22	103	5	20
7782-49-2	Selenium	0.016	0.0038	0.50	0.64	124	75 - 125	0.64	125	1	20
7440-28-0	Thallium	0.0037	0.0026	0.50	0.50	100	75 - 125	0.51	101	0.7	20

Inorganics Quality Control Summary

Analytical Batch	486562	**Client ID**	MB486199	LCS486199
Prep Batch	486199	**GCAL ID**	1089506	1089507
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	07/24/2012 16:00	07/24/2012 16:00
		Analytical Date	07/29/2012 14:07	07/29/2012 14:14
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.024U	0.024	5.00	4.85	97	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.47	94	88 - 108
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.49	98	88 - 109
7440-39-3	Barium	0.0016U	0.0016	0.50	0.49	97	92 - 112
7440-41-7	Beryllium	0.00023J	0.000082	0.50	0.49	99	89 - 113
7440-43-9	Cadmium	0.00026J	0.00010	0.50	0.49	99	88 - 111
7440-70-2	Calcium	0.11	0.024	5.00	4.95	99	90 - 111
7440-47-3	Chromium	0.0022J	0.00034	0.50	0.48	95	90 - 113
7440-48-4	Cobalt	0.00070J	0.00052	0.50	0.49	99	89 - 111
7440-50-8	Copper	0.0017U	0.0017	0.50	0.48	96	86 - 112
7439-89-6	Iron	0.027U	0.027	5.00	4.88	98	89 - 116
7439-92-1	Lead	0.0028U	0.0028	0.50	0.49	98	89 - 109
7439-95-4	Magnesium	0.012U	0.012	5.00	4.87	97	92 - 113
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.47	95	90 - 110
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.50	99	89 - 111
7440-09-7	Potassium	0.041U	0.041	10.0	9.32	93	89 - 114
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.49	99	90 - 110
7440-22-4	Silver	0.00064U	0.00064	0.50	0.49	97	86 - 120
7440-23-5	Sodium	0.056U	0.056	20.0	19.2	96	90 - 117
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.49	97	88 - 108
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.48	96	91 - 111
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.50	99	84 - 111

Inorganics Quality Control Summary

Analytical Batch	486562	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	486199	**GCAL ID**	21207241001	21207241002	21207241003
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/24/2012 16:00	07/24/2012 16:00	07/24/2012 16:00
		Analytical Date	07/29/2012 14:22	07/29/2012 15:04	07/29/2012 15:11
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-36-0	Antimony	0.0	0.0040	0.50	0.54	107	81 - 124	0.56	111	4	25
7440-38-2	Arsenic	0.022	0.0035	0.50	0.59	114	84 - 124	0.63	121	5	25
7440-39-3	Barium	0.0019	0.0016	0.50	0.49	97	85 - 120	0.51	103	5	25
7440-41-7	Beryllium	0.0016	0.000082	0.50	0.50	99	79 - 121	0.52	104	5	25
7440-43-9	Cadmium	0.0039	0.00010	0.50	0.47	93	82 - 119	0.49	98	4	25
7440-70-2	Calcium	507	0.024	5.00	501	**-100***	48 - 153	554	**936***	10	25
7440-47-3	Chromium	0.017	0.00034	0.50	0.50	96	73 - 135	0.52	101	5	25
7440-48-4	Cobalt	0.00077	0.00052	0.50	0.47	94	82 - 119	0.49	98	4	25
7440-50-8	Copper	0.017	0.0017	0.50	0.55	106	82 - 129	0.58	112	5	25
7439-92-1	Lead	0.0	0.0028	0.50	0.45	89	62 - 146	0.46	93	4	25
7439-95-4	Magnesium	828	0.012	5.00	813	**-300***	62 - 146	899	**1420***	10	25
7439-96-5	Manganese	0.0	0.00083	0.50	0.46	92	79 - 121	0.49	97	5	25
7440-02-0	Nickel	0.0	0.00084	0.50	0.46	92	84 - 120	0.48	96	5	25
7440-09-7	Potassium	28.0	0.041	10.0	40.6	126	76 - 132	42.1	**141***	4	25
7440-22-4	Silver	0.0	0.00064	0.50	0.55	111	75 - 141	0.59	117	6	25
7440-62-2	Vanadium	0.029	0.0012	0.50	0.55	105	85 - 120	0.58	110	5	25
7440-66-6	Zinc	0.0080	0.0059	0.50	0.55	107	60 - 137	0.58	114	6	25

Analytical Batch	486711	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	486199	**GCAL ID**	21207241001	21207241002	21207241003
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/24/2012 16:00	07/24/2012 16:00	07/24/2012 16:00
		Analytical Date	07/31/2012 13:51	07/31/2012 13:58	07/31/2012 14:05
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	4690	0.56	20.0	4920	**1120***	70 - 203	5070	**1890***	3	25

Inorganics Quality Control Summary

Analytical Batch	486833	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	486199	**GCAL ID**	21207241001	21207241002	21207241003
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/24/2012 16:00	07/24/2012 16:00	07/24/2012 16:00
		Analytical Date	08/01/2012 12:37	08/01/2012 12:44	08/01/2012 12:50
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.024	5.00	4.88	98	83 - 119	5.18	104	6	25
7439-89-6	Iron	0.0	0.027	5.00	4.75	95	52 - 155	4.99	100	5	25
7782-49-2	Selenium	0.020	0.0038	0.50	0.61	118	71 - 140	0.65	125	6	25
7440-28-0	Thallium	0.0	0.0026	0.50	0.48	95	90 - 116	0.51	101	6	25

General Chemistry Quality Control Summary

Analytical Batch 486226	**Client ID**	MB486226			LCS486226		
Prep Batch N/A	**GCAL ID**	1089632			1089633		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/24/2012 15:30			07/24/2012 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)	7.00U	7.00	1000	985	98.5	90 - 110

Analytical Batch 486226	**Client ID**	MW-08-06		1089489DUP		
Prep Batch N/A	**GCAL ID**	21207241001		1089634		
	Sample Type	SAMPLE		DUP		
	Analytical Date	07/24/2012 15:30		07/24/2012 15:30		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	19860	7.00	19700	0.76	5

General Chemistry Quality Control Summary

Analytical Batch 486277		**Client ID**	MB486277			LCS486277			LCSD486277		
Prep Batch N/A		**GCAL ID**	1089883			1089884			1089885		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/24/2012 19:30			07/24/2012 19:47			07/24/2012 20:05		
		Matrix	Water			Water			Water		
EPA 300.0 Inorganic Anions		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
16887-00-6	Chloride		0.021U	0.021	2.50	2.50	100	80 - 120	2.48	99.3	0.72	25
14797-55-8	Nitrate		0.078U	0.078	2.50	2.46	98.3	80 - 120	2.43	97.2	1.1	25
14797-65-0	Nitrite		0.059U	0.059	2.50	2.46	98.4	80 - 120	2.43	97.3	1.1	25
16984-48-8	Fluoride		0.086U	0.086	2.50	2.38	95.2	80 - 120	2.36	94.6	0.67	25
14808-79-8	Sulfate		0.079U	0.079	5.00	4.97	99.4	80 - 120	4.94	98.8	0.59	25

Analytical Batch 486277		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21207241001			21207241002			21207241003		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/24/2012 20:23			07/24/2012 20:40			07/24/2012 20:58		
		Matrix	Water			Water			Water		
EPA 300.0 Inorganic Anions		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
16984-48-8	Fluoride		1.14	0.860	25.0	23.3	88.8	75 - 125	23.5	89.4	0.56	25
14797-55-8	Nitrate		15.9	0.780	25.0	43.3	110	75 - 125	43.3	109	0.11	25

Analytical Batch 486277		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21207241001			21207241002			21207241003		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/25/2012 08:49			07/25/2012 09:06			07/25/2012 09:24		
		Matrix	Water			Water			Water		
EPA 300.0 Inorganic Anions		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
14797-65-0	Nitrite		0.000	2.95	125	160	**128***	75 - 125	161	**129***	0.63	25

General Chemistry Quality Control Summary

Analytical Batch 486277		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21207241001			21207241002			21207241003		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/25/2012 09:42			07/25/2012 09:59			07/25/2012 10:17		
		Matrix	Water			Water			Water		
EPA 300.0 Inorganic Anions			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride		6240	105	12500	19200	104	75 - 125	19100	103	0.96	25
14808-79-8	Sulfate		7970	395	12500	20400	99.4	75 - 125	20500	100	0.41	25

NATIONVIEW | 4771 | 212072410 | 8/02/12

Page: 1 of 1

NV Project No: 10-0004

COC Number(1): 07232012-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q3)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Fluoride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	TAL Metals [Total] (6010B/7470A)	TDS (SM19 2540C)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)									Quality Assurance Samples (6)				
MW-08-06	MW-08-06	7/23/2012	1140	-	N	1	WG	7	X	X	X	X	X							1	1
MW-08-06-MS	MW-08-06	7/23/2012	1140	-	MS	1	WG	7	X	X	X	X	X							1	2
MW-08-06-MSD	MW-08-06	7/23/2012	1140	-	SD	1	WG	7	X	X	X	X	X							1	3
TRIP Blank							WQ	3	X										2111020	1	4
				-																	
				-																	
				-																	
				-																	
				-																	
				-																	

COMMENTS: **Dissolved TAL Metals filtered in the field**

2.9°C

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	7/23/12	1400	1. Fedex		
2. Fedex	7/24/12	1025	2. [illegible]	7/24/12	1025
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 7986 4836 2040

Analytical Lab: GCAL Delivery Location: Baton Rogue, LA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

SDG
212072410

PROJECT

Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile 204817 - Holloman AFB	**Received By** Pfeifer, Ben J.
Line Item(s) 3 - SD-08	**Receive Date(s)** 07/24/12

CHECKLIST

Were all samples received using proper thermal preservation?	☑ Yes	☐ No	☐ NA
When used, were all custody seals intact?	☑ Yes	☐ No	☐ NA
Were all samples received in proper containers?	☑ Yes	☐ No	☐ NA
Were all samples received using proper chemical preservation?	☑ Yes	☐ No	☐ NA
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ NA
Were all containers received in good condition?	☑ Yes	☐ No	☐ NA
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ NA
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ NA
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ NA

COOLERS

Airbill	Temp(oC)
7986 4836 2040	2.9

DISCREPANCIES

None

LABORATORY PRESERVATIONS

None

NOTES

212072410

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 08/08/2012

GCAL Report 212072503

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB SD08 Qrtly GW-Q3

CASE NARRATIVE

Client: NationView LLC **Report:** 212072503

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

Several Dissolved Metals concentration is greater than the Total concentration for several elements in several samples. This is attributed to separate aliquots of sample.

In the SW-846 6010B Dissolved analysis, sample 21207250302 (MW-08-03) and 21207250303 (MW-08-04) 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 6010B analysis, sample 21207250302 (MW-08-03) 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 6010B Dissolved analysis for prep batch 486262, the MS and/or MSD recovery is outside the control limits for Thallium. 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 83%. The MS/MSD recoveries are not applicable forCalcium, Magnesium and Sodium because the sample concentration is greater than four times the spike concentration. Calcium was detected in the method blank. The concentration was insignificant as compared to the concentration detected in the associated sample(s).

In the SW-846 6010B analysis for prep batch 486261, the MS/MSD recoveries are not applicable for Magnesium, Calcium and Sodium because the sample concentration is greater than four times the spike concentration.

CONVENTIONALS

In the EPA 300.0 analysis, samples 21207250303 (MW-08-04), 21207250301 (MW-08-02) and 21207250302 (MW-08-03) had to be diluted in order to bracket the concentration within the calibration range of the instrument.

In the EPA 300.0 analysis, a chemical or physical interference necessitated a dilution for sample 21207250302 (MW-08-03). This is reflected in the elevated reporting limit.

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
Technical Director
GCAL REPORT 212072503

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250301	MW-08-02	Water	07/23/2012 15:50	07/25/2012 09:55
21207250302	MW-08-03	Water	07/23/2012 14:50	07/25/2012 09:55
21207250303	MW-08-04	Water	07/23/2012 13:15	07/25/2012 09:55
21207250304	TRIP BLANK	Water	07/23/2012 00:00	07/25/2012 09:55

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250301	**MW-08-02**	Water	07/23/2012 15:50	07/25/2012 09:55

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.030	0.010	0.0035	mg/L
7440-39-3	Barium	0.012	0.010	0.0016	mg/L
7440-41-7	Beryllium	0.00086J	0.0050	0.000082	mg/L
7440-70-2	Calcium	553	0.10	0.024	mg/L
7440-47-3	Chromium	0.0014J	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.0054J	0.010	0.00052	mg/L
7439-95-4	Magnesium	147	0.10	0.012	mg/L
7439-96-5	Manganese	2.19	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0019J	0.040	0.00084	mg/L
7440-09-7	Potassium	3.42	0.50	0.041	mg/L
7440-62-2	Vanadium	0.0065J	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	1.53	0.10	0.027	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	113	1.00	0.056	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.048J	0.20	0.024	mg/L
7440-36-0	Antimony	0.0042J	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.031	0.010	0.0035	mg/L
7440-39-3	Barium	0.014	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0024J	0.0050	0.00010	mg/L
7440-48-4	Cobalt	0.0057J	0.010	0.00052	mg/L
7440-50-8	Copper	0.013	0.010	0.0017	mg/L
7439-89-6	Iron	1.76	0.10	0.027	mg/L
7439-92-1	Lead	0.0056J	0.015	0.0028	mg/L
7439-95-4	Magnesium	153	0.10	0.012	mg/L
7439-96-5	Manganese	3.01	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0019J	0.040	0.00084	mg/L
7440-62-2	Vanadium	0.051	0.020	0.0012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	599	0.10	0.024	mg/L
7440-09-7	Potassium	3.67	0.50	0.041	mg/L
7440-23-5	Sodium	118	1.00	0.056	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250301	MW-08-02	Water	07/23/2012 15:50	07/25/2012 09:55

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3450	10.0	7.00	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	4.12	0.500	0.430	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	4.98J	5.00	0.119	ug/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	119	50.0	10.5	mg/L
14808-79-8	Sulfate	1960	100	39.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250302	MW-08-03	Water	07/23/2012 14:50	07/25/2012 09:55

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.022	0.010	0.0035	mg/L
7440-41-7	Beryllium	0.0012J	0.0050	0.000082	mg/L
7440-43-9	Cadmium	0.0028J	0.0050	0.00010	mg/L
7440-70-2	Calcium	569	0.10	0.024	mg/L
7440-48-4	Cobalt	0.00052J	0.010	0.00052	mg/L
7439-95-4	Magnesium	691	0.10	0.012	mg/L
7440-02-0	Nickel	0.0018J	0.040	0.00084	mg/L
7440-09-7	Potassium	21.2	0.50	0.041	mg/L
7440-28-0	Thallium	0.0095J	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.033	0.020	0.0012	mg/L
7440-66-6	Zinc	0.014J	0.020	0.0059	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2900	10.0	0.56	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250302	**MW-08-03**	Water	07/23/2012 14:50	07/25/2012 09:55

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.035J	0.20	0.024	mg/L
7440-50-8	Copper	0.0024J	0.010	0.0017	mg/L
7782-49-2	Selenium	0.015J	0.040	0.0038	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	2.21	0.500	0.430	mg/L
14797-55-8	Nitrate	11.7	2.50	0.390	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	13200	10.0	7.00	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.034J	0.20	0.024	mg/L
7440-38-2	Arsenic	0.013	0.010	0.0035	mg/L
7440-39-3	Barium	0.0028J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0012J	0.0050	0.00010	mg/L
7440-50-8	Copper	0.0043J	0.010	0.0017	mg/L
7439-95-4	Magnesium	766	0.10	0.012	mg/L
7782-49-2	Selenium	0.014J	0.040	0.0038	mg/L
7440-28-0	Thallium	0.0033J	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.060	0.020	0.0012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	623	1.00	0.24	mg/L
7440-09-7	Potassium	19.3	5.00	0.41	mg/L
7440-23-5	Sodium	3090	10.0	0.56	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	4100	200	42.0	mg/L
14808-79-8	Sulfate	5060	400	158	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250303	**MW-08-04**	Water	07/23/2012 13:15	07/25/2012 09:55

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.034J	0.20	0.024	mg/L
7440-38-2	Arsenic	0.0092J	0.010	0.0035	mg/L
7440-39-3	Barium	0.0088J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.00090J	0.0050	0.00010	mg/L
7440-70-2	Calcium	486	0.10	0.024	mg/L
7440-50-8	Copper	0.013	0.010	0.0017	mg/L
7439-95-4	Magnesium	259	0.10	0.012	mg/L
7440-09-7	Potassium	17.0	0.50	0.041	mg/L
7782-49-2	Selenium	0.0054J	0.040	0.0038	mg/L
7440-62-2	Vanadium	0.078	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	570	2.00	0.11	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5110	10.0	7.00	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	1.26	1.00	0.860	mg/L
14797-55-8	Nitrate	4.18J	5.00	0.780	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0050J	0.010	0.0035	mg/L
7440-39-3	Barium	0.0094J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.00080J	0.0050	0.00010	mg/L
7440-50-8	Copper	0.015	0.010	0.0017	mg/L
7439-95-4	Magnesium	261	0.10	0.012	mg/L
7782-49-2	Selenium	0.0069J	0.040	0.0038	mg/L
7440-28-0	Thallium	0.0068J	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.087	0.020	0.0012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	453	0.10	0.024	mg/L
7440-09-7	Potassium	16.4	0.50	0.041	mg/L
7440-23-5	Sodium	593	1.00	0.056	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250303	**MW-08-04**	Water	07/23/2012 13:15	07/25/2012 09:55

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**457**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**2950**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250301	**MW-08-02**	Water	07/23/2012 15:50	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 22:22	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	**1,2-Dichloroethane**	**4.98J**	**5.00**	**0.119**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250301	**MW-08-02**	Water	07/23/2012 15:50	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 22:22	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	50.7	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	50.1	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.9	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A Dissolved	1	07/30/2012 15:47	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A	1	07/30/2012 15:38	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250301	**MW-08-02**	Water	07/23/2012 15:50	07/25/2012 09:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/01/2012 17:41	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.048J**	**0.20**	**0.024**	**mg/L**
7440-36-0	**Antimony**	**0.0042J**	**0.060**	**0.0040**	**mg/L**
7440-38-2	**Arsenic**	**0.031**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.014**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0024J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	**Cobalt**	**0.0057J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.013**	**0.010**	**0.0017**	**mg/L**
7439-89-6	**Iron**	**1.76**	**0.10**	**0.027**	**mg/L**
7439-92-1	**Lead**	**0.0056J**	**0.015**	**0.0028**	**mg/L**
7439-95-4	**Magnesium**	**153**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**3.01**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0019J**	**0.040**	**0.00084**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.051**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/03/2012 11:19	CLB	486962

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**599**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**3.67**	**0.50**	**0.041**	**mg/L**
7440-23-5	**Sodium**	**118**	**1.00**	**0.056**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	07/29/2012 17:35	BNB	486562

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	**Arsenic**	**0.030**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.012**	**0.010**	**0.0016**	**mg/L**
7440-41-7	**Beryllium**	**0.00086J**	**0.0050**	**0.000082**	**mg/L**
7440-43-9	Cadmium	0.00010U	0.0050	0.00010	mg/L
7440-70-2	**Calcium**	**553**	**0.10**	**0.024**	**mg/L**
7440-47-3	**Chromium**	**0.0014J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	**Cobalt**	**0.0054J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	Copper	0.0017U	0.010	0.0017	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**147**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**2.19**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0019J**	**0.040**	**0.00084**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250301	**MW-08-02**	Water	07/23/2012 15:50	07/25/2012 09:55

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	07/29/2012 17:35	BNB	486562

CAS#	Parameter	Result	RDL	MDL	Units
7440-09-7	**Potassium**	**3.42**	**0.50**	**0.041**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.0065J**	**0.020**	**0.0012**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 14:29	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7439-89-6	**Iron**	**1.53**	**0.10**	**0.027**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/02/2012 22:19	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**113**	**1.00**	**0.056**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2012 12:40	DJH	486267

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3450**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	07/25/2012 12:03	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**4.12**	**0.500**	**0.430**	**mg/L**
14797-55-8	Nitrate	0.390U	2.50	0.390	mg/L
14797-65-0	Nitrite	0.295U	2.50	0.295	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250301	**MW-08-02**	Water	07/23/2012 15:50	07/25/2012 09:55

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	07/25/2012 17:02	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**119**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**1960**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250302	**MW-08-03**	Water	07/23/2012 14:50	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 22:42	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250302	**MW-08-03**	Water	07/23/2012 14:50	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 22:42	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.7	ug/L	91	84 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	49.9	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.4	ug/L	99	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A Dissolved	1	07/30/2012 15:49	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A	1	07/30/2012 15:51	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250302	**MW-08-03**	Water	07/23/2012 14:50	07/25/2012 09:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/01/2012 17:07	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.034J**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.013**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.0028J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0012J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	**Copper**	**0.0043J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**766**	**0.10**	**0.012**	**mg/L**
7439-96-5	Manganese	0.00083U	0.015	0.00083	mg/L
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7782-49-2	**Selenium**	**0.014J**	**0.040**	**0.0038**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	**Thallium**	**0.0033J**	**0.020**	**0.0026**	**mg/L**
7440-62-2	**Vanadium**	**0.060**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	10	08/02/2012 17:16	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**623**	**1.00**	**0.24**	**mg/L**
7440-09-7	**Potassium**	**19.3**	**5.00**	**0.41**	**mg/L**
7440-23-5	**Sodium**	**3090**	**10.0**	**0.56**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	07/29/2012 17:00	BNB	486562

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	**Arsenic**	**0.022**	**0.010**	**0.0035**	**mg/L**
7440-39-3	Barium	0.0016U	0.010	0.0016	mg/L
7440-41-7	**Beryllium**	**0.0012J**	**0.0050**	**0.000082**	**mg/L**
7440-43-9	**Cadmium**	**0.0028J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**569**	**0.10**	**0.024**	**mg/L**
7440-48-4	**Cobalt**	**0.00052J**	**0.010**	**0.00052**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**691**	**0.10**	**0.012**	**mg/L**
7439-96-5	Manganese	0.00083U	0.015	0.00083	mg/L
7440-02-0	**Nickel**	**0.0018J**	**0.040**	**0.00084**	**mg/L**
7440-09-7	**Potassium**	**21.2**	**0.50**	**0.041**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250302	**MW-08-03**	Water	07/23/2012 14:50	07/25/2012 09:55

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	07/29/2012 17:00	BNB	486562

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	**Thallium**	**0.0095J**	**0.020**	**0.0026**	**mg/L**
7440-62-2	**Vanadium**	**0.033**	**0.020**	**0.0012**	**mg/L**
7440-66-6	**Zinc**	**0.014J**	**0.020**	**0.0059**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	10	07/31/2012 16:18	CLB	486711

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2900**	**10.0**	**0.56**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 13:57	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.035J**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-50-8	**Copper**	**0.0024J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7782-49-2	**Selenium**	**0.015J**	**0.040**	**0.0038**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2012 12:40	DJH	486267

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**13200**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	07/25/2012 12:03	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**2.21**	**0.500**	**0.430**	**mg/L**
14797-55-8	**Nitrate**	**11.7**	**2.50**	**0.390**	**mg/L**
14797-65-0	Nitrite	0.295U	2.50	0.295	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250302	**MW-08-03**	Water	07/23/2012 14:50	07/25/2012 09:55

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	07/25/2012 16:45	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**4100**	**200**	**42.0**	**mg/L**
14808-79-8	**Sulfate**	**5060**	**400**	**158**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250303	**MW-08-04**	Water	07/23/2012 13:15	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 23:02	LBH	486507

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250303	**MW-08-04**	Water	07/23/2012 13:15	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 23:02	LBH	486507

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.6	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	51.6	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	51.2	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.7	ug/L	101	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A Dissolved	1	07/30/2012 15:52	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A	1	07/30/2012 15:54	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250303	**MW-08-04**	Water	07/23/2012 13:15	07/25/2012 09:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/01/2012 17:47	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.0050J**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.0094J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.00080J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	**Copper**	**0.015**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**261**	**0.10**	**0.012**	**mg/L**
7439-96-5	Manganese	0.00083U	0.015	0.00083	mg/L
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7782-49-2	**Selenium**	**0.0069J**	**0.040**	**0.0038**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	**Thallium**	**0.0068J**	**0.020**	**0.0026**	**mg/L**
7440-62-2	**Vanadium**	**0.087**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/02/2012 19:40	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**453**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**16.4**	**0.50**	**0.041**	**mg/L**
7440-23-5	**Sodium**	**593**	**1.00**	**0.056**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 14:36	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.034J**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.0092J**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.0088J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.00090J**	**0.0050**	**0.00010**	**mg/L**
7440-70-2	**Calcium**	**486**	**0.10**	**0.024**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	**Copper**	**0.013**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250303	**MW-08-04**	Water	07/23/2012 13:15	07/25/2012 09:55

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 14:36	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	**Magnesium**	**259**	**0.10**	**0.012**	**mg/L**
7439-96-5	Manganese	0.00083U	0.015	0.00083	mg/L
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7440-09-7	**Potassium**	**17.0**	**0.50**	**0.041**	**mg/L**
7782-49-2	**Selenium**	**0.0054J**	**0.040**	**0.0038**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.078**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	2	08/03/2012 11:30	CLB	486962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**570**	**2.00**	**0.11**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2012 12:40	DJH	486267

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5110**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/25/2012 11:10	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**1.26**	**1.00**	**0.860**	**mg/L**
14797-55-8	**Nitrate**	**4.18J**	**5.00**	**0.780**	**mg/L**
14797-65-0	Nitrite	0.590U	5.00	0.590	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	07/25/2012 16:10	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**457**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**2950**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250304	**TRIP BLANK**	Water	07/23/2012 00:00	07/25/2012 09:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 23:22	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250304	**TRIP BLANK**	Water	07/23/2012 00:00	07/25/2012 09:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 23:22	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.9	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	50.6	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.3	ug/L	99	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 486507		**Client ID**	MB486507			LCS486507			LCSD486507		
Prep Batch N/A		**GCAL ID**	1091113			1091114			1091115		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/27/2012 17:50			07/27/2012 16:49			07/27/2012 17:09		
		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	0.399U		0.399	50.0	47.8	96	59 - 134	53.6	107	11	30
74-97-5	Bromochloromethane	0.127U		0.127	50.0	54.3	109	78 - 112	55.4	111	2	30
75-27-4	Bromodichloromethane	0.076U		0.076	50.0	53.5	107	76 - 116	55.9	112	4	30
75-25-2	Bromoform	0.150U		0.150	50.0	45.4	91	68 - 128	47.9	96	5	30
74-83-9	Bromomethane	0.427U		0.427	50.0	51.1	102	55 - 151	52.8	106	3	30
75-15-0	Carbon disulfide	0.190U		0.190	50.0	57.9	116	67 - 147	58.5	117	1	30
56-23-5	Carbon tetrachloride	0.146U		0.146	50.0	53.0	106	74 - 139	55.4	111	4	30
75-00-3	Chloroethane	0.235U		0.235	50.0	59.4	119	54 - 166	60.1	120	1	30
136777-61-2	m,p-Xylene	0.237U		0.237	100	101	101	83 - 121	103	103	2	30
67-66-3	Chloroform	0.109U		0.109	50.0	54.5	109	85 - 123	56.1	112	3	30
74-87-3	Chloromethane	0.058U		0.058	50.0	66.2	132	55 - 173	69.0	138	4	30
124-48-1	Dibromochloromethane	0.076U		0.076	50.0	50.4	101	74 - 116	53.5	107	6	30
74-95-3	Dibromomethane	0.131U		0.131	50.0	54.0	108	81 - 116	54.6	109	1	30
75-71-8	Dichlorodifluoromethane	0.154U		0.154	50.0	70.8	142	34 - 158	73.3	147	3	30
75-34-3	1,1-Dichloroethane	0.138U		0.138	50.0	54.7	109	82 - 127	56.5	113	3	30
107-06-2	1,2-Dichloroethane	0.119U		0.119	50.0	48.4	97	76 - 122	50.4	101	4	30
156-59-2	cis-1,2-Dichloroethene	0.134U		0.134	50.0	51.7	103	81 - 114	54.4	109	5	30
156-60-5	trans-1,2-Dichloroethene	0.075U		0.075	50.0	54.1	108	82 - 126	55.6	111	3	30
75-09-2	Methylene chloride	0.149U		0.149	50.0	55.2	110	69 - 125	57.5	115	4	30
78-87-5	1,2-Dichloropropane	0.150U		0.150	50.0	55.3	111	81 - 120	58.0	116	5	30
10061-01-5	cis-1,3-Dichloropropene	0.092U		0.092	50.0	52.5	105	83 - 119	55.6	111	6	30
10061-02-6	trans-1,3-Dichloropropene	0.146U		0.146	50.0	51.2	102	87 - 123	53.6	107	5	30
100-41-4	Ethylbenzene	0.119U		0.119	50.0	50.2	100	87 - 118	51.3	103	2	30
591-78-6	2-Hexanone	0.093U		0.093	50.0	42.5	85	58 - 125	46.1	92	8	30
98-82-8	Isopropylbenzene (Cumene)	0.123U		0.123	50.0	50.9	102	87 - 131	50.6	101	0.6	30
78-93-3	2-Butanone	0.362U		0.362	50.0	49.6	99	61 - 127	53.6	107	8	30
74-88-4	Methyl iodide	0.084U		0.084	50.0	53.9	108	72 - 125	55.2	110	2	30
108-10-1	4-Methyl-2-pentanone	0.079U		0.079	50.0	43.9	88	62 - 125	46.7	93	6	30
103-65-1	n-Propylbenzene	0.102U		0.102	50.0	53.9	108	86 - 125	52.9	106	2	30
100-42-5	Styrene	0.098U		0.098	50.0	50.3	101	78 - 118	52.6	105	4	30
127-18-4	Tetrachloroethene	0.126U		0.126	50.0	50.6	101	80 - 131	50.8	102	0.4	30
630-20-6	1,1,1,2-Tetrachloroethane	0.103U		0.103	50.0	50.5	101	81 - 119	52.4	105	4	30
79-34-5	1,1,2,2-Tetrachloroethane	0.108U		0.108	50.0	50.6	101	71 - 120	53.0	106	5	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 486507		**Client ID**	MB486507			LCS486507			LCSD486507		
Prep Batch N/A		**GCAL ID**	1091113			1091114			1091115		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/27/2012 17:50			07/27/2012 16:49			07/27/2012 17:09		
		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	0.156U		0.156	50.0	52.6	105	68 - 123	59.6	119	12	30
71-55-6	1,1,1-Trichloroethane	0.085U		0.085	50.0	51.1	102	79 - 133	52.2	104	2	30
79-00-5	1,1,2-Trichloroethane	0.147U		0.147	50.0	50.0	100	80 - 114	53.2	106	6	30
75-69-4	Trichlorofluoromethane	0.131U		0.131	50.0	50.2	100	66 - 156	51.2	102	2	30
96-18-4	1,2,3-Trichloropropane	0.098U		0.098	50.0	48.4	97	77 - 115	51.4	103	6	30
95-63-6	1,2,4-Trimethylbenzene	0.102U		0.102	50.0	52.9	106	82 - 120	52.6	105	0.6	30
108-67-8	1,3,5-Trimethylbenzene	0.075U		0.075	50.0	52.8	106	83 - 123	52.5	105	0.6	30
75-01-4	Vinyl chloride	0.137U		0.137	50.0	59.7	119	57 - 153	61.3	123	3	30
95-47-6	o-Xylene	0.147U		0.147	50.0	49.1	98	83 - 121	51.3	103	4	30
96-12-8	1,2-Dibromo-3-chloropropane	0.178U		0.178	50.0	42.5	85	61 - 118	47.7	95	12	30
106-93-4	1,2-Dibromoethane	0.100U		0.100	50.0	48.0	96	80 - 115	50.4	101	5	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U		0.060	50.0	45.9	92	75 - 116	49.1	98	7	30
540-59-0	1,2-Dichloroethene(Total)	0.209U		0.209	100	106	106	74 - 128	110	110	4	30
99-87-6	4-Isopropyltoluene	0.082U		0.082	50.0	52.5	105	83 - 125	52.2	104	0.6	30
1330-20-7	Xylene (total)	0.384U		0.384	150	150	100	74 - 127	155	103	3	30
110-57-6	trans-1,4-Dichloro-2-butene	0.312U		0.312	50.0	41.6	83	51 - 137	40.1	80	4	30
594-20-7	2,2-Dichloropropane	0.181U		0.181	50.0	50.8	102	77 - 138	52.6	105	3	30
76-13-1	Trichlorotrifluoroethane	0.158U		0.158	50.0	56.3	113	74 - 139	57.7	115	2	30
563-58-6	1,1-Dichloropropene	0.121U		0.121	50.0	52.5	105	87 - 127	53.7	107	2	30
142-28-9	1,3-Dichloropropane	0.072U		0.072	50.0	48.1	96	81 - 113	50.3	101	4	30
108-86-1	Bromobenzene	0.109U		0.109	50.0	51.6	103	83 - 115	53.6	107	4	30
95-49-8	2-Chlorotoluene	0.108U		0.108	50.0	51.3	103	81 - 121	52.1	104	2	30
106-43-4	4-Chlorotoluene	0.117U		0.117	50.0	52.1	104	84 - 120	52.9	106	2	30
98-06-6	tert-Butylbenzene	0.097U		0.097	50.0	50.9	102	83 - 126	50.4	101	1	30
135-98-8	sec-Butylbenzene	0.111U		0.111	50.0	54.0	108	86 - 127	53.2	106	1	30
541-73-1	1,3-Dichlorobenzene	0.135U		0.135	50.0	51.6	103	86 - 115	52.1	104	1	30
106-46-7	1,4-Dichlorobenzene	0.110U		0.110	50.0	51.1	102	87 - 113	51.4	103	0.6	30
104-51-8	n-Butylbenzene	0.152U		0.152	50.0	52.8	106	84 - 124	53.2	106	0.8	30
95-50-1	1,2-Dichlorobenzene	0.117U		0.117	50.0	50.3	101	85 - 115	51.8	104	3	30
87-68-3	Hexachlorobutadiene	0.211U		0.211	50.0	49.0	98	71 - 133	62.6	125	24	30
91-20-3	Naphthalene	0.065U		0.065	50.0	47.3	95	59 - 125	56.6	113	18	35
75-35-4	1,1-Dichloroethene	0.208U		0.208	50.0	50.2	100	75 - 133	50.9	102	1	20
71-43-2	Benzene	0.099U		0.099	50.0	55.2	110	83 - 124	56.7	113	3	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	486507	**Client ID**	MB486507			LCS486507			LCSD486507		
Prep Batch	N/A	**GCAL ID**	1091113			1091114			1091115		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/27/2012 17:50			07/27/2012 16:49			07/27/2012 17:09		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**		**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
79-01-6	Trichloroethene	0.151U		0.151	50.0	52.5	105	85 - 124	53.3	107	2	20
108-88-3	Toluene	0.127U		0.127	50.0	50.3	101	86 - 116	52.4	105	4	20
108-90-7	Chlorobenzene	0.089U		0.089	50.0	50.4	101	87 - 115	52.3	105	4	20
Surrogate												
460-00-4	4-Bromofluorobenzene	45.2		90	50	46.7	93	84 - 120	46.9	94		
1868-53-7	Dibromofluoromethane	50.4		101	50	51	102	87 - 116	50.3	101		
2037-26-5	Toluene d8	49.7		99	50	48.4	97	86 - 112	49	98		
17060-07-0	1,2-Dichloroethane-d4	50		100	50	50.7	101	76 - 127	48.5	97		

Inorganics Quality Control Summary

Analytical Batch	486623	**Client ID**	MB486263			LCS486263		
Prep Batch	486263	**GCAL ID**	1089805			1089806		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	07/25/2012 11:50			07/25/2012 11:50		
		Analytical Date	07/30/2012 15:35			07/30/2012 15:36		
		Matrix	Water			Water		
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.000075U	0.000075	0.00500	0.00455	91	88 - 111

Analytical Batch	486623	**Client ID**	MW-08-02			1089793MS			1089793MSD			
Prep Batch	486263	**GCAL ID**	21207250301			1089808			1089832			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	07/25/2012 11:50			07/25/2012 11:50			07/25/2012 11:50			
		Analytical Date	07/30/2012 15:47			07/30/2012 15:39			07/30/2012 15:41			
		Matrix	Water			Water			Water			
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.00000	0.000075	0.00500	0.00426	85	75 - 125	0.00421	84	1	10

Inorganics Quality Control Summary

Analytical Batch	486623	**Client ID**	MB486263	LCS486263
Prep Batch	486263	**GCAL ID**	1089805	1089806
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	07/30/2012 15:35	07/30/2012 15:36
		Matrix	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000075U	0.000075	0.00500	0.00455	91	80 - 120

Analytical Batch	486623	**Client ID**	MW-08-02	1089793MS	1089793MSD
Prep Batch	486263	**GCAL ID**	21207250301	1089808	1089832
Prep Method	SW-846 7470A	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	07/25/2012 11:50	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	07/30/2012 15:47	07/30/2012 15:39	07/30/2012 15:41
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.000075	0.00500	0.00426	85	75 - 125	0.00421	84	1	20

Inorganics Quality Control Summary

Analytical Batch	486833	**Client ID**	MB486261	LCS486261
Prep Batch	486261	**GCAL ID**	1089797	1089798
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	08/01/2012 15:52	08/01/2012 16:00
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.040J	0.024	5.00	5.19	104	80 - 120
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.51	103	80 - 120
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.54	108	80 - 120
7440-39-3	Barium	0.0025J	0.0016	0.50	0.52	104	80 - 120
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.51	102	80 - 120
7440-43-9	Cadmium	0.00010U	0.00010	0.50	0.52	104	80 - 120
7440-70-2	Calcium	0.035J	0.024	5.00	5.10	102	80 - 120
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.50	101	80 - 120
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.52	104	80 - 120
7440-50-8	Copper	0.0017U	0.0017	0.50	0.50	100	80 - 120
7439-89-6	Iron	0.027U	0.027	5.00	5.13	103	80 - 120
7439-92-1	Lead	0.0028U	0.0028	0.50	0.53	106	80 - 120
7439-95-4	Magnesium	0.012U	0.012	5.00	5.26	105	80 - 120
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.50	99	80 - 120
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.53	106	80 - 120
7440-09-7	Potassium	0.041U	0.041	10.0	10.2	102	80 - 120
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.53	106	80 - 120
7440-22-4	Silver	0.00064U	0.00064	0.50	0.50	100	80 - 120
7440-23-5	Sodium	0.056U	0.056	20.0	20.3	101	80 - 120
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.53	106	80 - 120
7440-62-2	Vanadium	0.0033J	0.0012	0.50	0.51	101	80 - 120
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.51	103	80 - 120

Inorganics Quality Control Summary

Analytical Batch	486833	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486261	**GCAL ID**	21207250302	1089800	1089830
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	07/25/2012 11:50	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	08/01/2012 17:07	08/01/2012 17:14	08/01/2012 17:20
		Matrix	Water	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.034	0.024	5.00	4.69	93	75 - 125	4.79	95	2	20
7440-36-0	Antimony	0.0	0.0040	0.50	0.53	106	75 - 125	0.54	107	1	20
7440-38-2	Arsenic	0.013	0.0035	0.50	0.57	112	75 - 125	0.58	113	0.5	20
7440-39-3	Barium	0.0028	0.0016	0.50	0.48	95	75 - 125	0.48	96	1	20
7440-41-7	Beryllium	0.0	0.000082	0.50	0.48	95	75 - 125	0.48	97	1	20
7440-43-9	Cadmium	0.0012	0.00010	0.50	0.47	93	75 - 125	0.47	94	1	20
7440-47-3	Chromium	0.0	0.00034	0.50	0.45	90	75 - 125	0.46	92	1	20
7440-48-4	Cobalt	0.0	0.00052	0.50	0.47	93	75 - 125	0.47	93	0.08	20
7440-50-8	Copper	0.0043	0.0017	0.50	0.51	102	75 - 125	0.52	103	2	20
7439-89-6	Iron	0.0	0.027	5.00	4.64	93	75 - 125	4.62	92	0.3	20
7439-92-1	Lead	0.0	0.0028	0.50	0.46	93	75 - 125	0.47	94	1	20
7439-95-4	Magnesium	766	0.012	5.00	760	**-100***	75 - 125	782	**304***	3	20
7439-96-5	Manganese	0.0	0.00083	0.50	0.48	97	75 - 125	0.48	97	0.2	20
7440-02-0	Nickel	0.0	0.00084	0.50	0.46	91	75 - 125	0.45	91	0.5	20
7782-49-2	Selenium	0.014	0.0038	0.50	0.57	112	75 - 125	0.57	111	0.4	20
7440-22-4	Silver	0.0	0.00064	0.50	0.53	105	75 - 125	0.53	107	1	20
7440-28-0	Thallium	0.0033	0.0026	0.50	0.47	93	75 - 125	0.46	92	1	20
7440-62-2	Vanadium	0.060	0.0012	0.50	0.55	98	75 - 125	0.56	100	1	20
7440-66-6	Zinc	0.0	0.0059	0.50	0.50	101	75 - 125	0.51	102	1	20

Analytical Batch	486881	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486261	**GCAL ID**	21207250302	1089800	1089830
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	07/25/2012 11:50	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	08/02/2012 17:16	08/02/2012 17:23	08/02/2012 17:30
		Matrix	Water	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-70-2	Calcium	623	0.24	5.00	617	**-100***	75 - 125	636	**268***	3	20
7440-09-7	Potassium	19.3	0.41	10.0	29.0	97	75 - 125	29.7	104	3	20
7440-23-5	Sodium	3090	0.56	20.0	3160	**374***	75 - 125	3260	**874***	3	20

Inorganics Quality Control Summary

Analytical Batch	486562	**Client ID**	MB486262	LCS486262
Prep Batch	486262	**GCAL ID**	1089801	1089802
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	07/25/2012 13:10	07/25/2012 13:10
		Analytical Date	07/29/2012 16:47	07/29/2012 16:54
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.046J	0.024	5.00	4.61	92	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.48	95	88 - 108
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.48	96	88 - 109
7440-39-3	Barium	0.0016U	0.0016	0.50	0.49	97	92 - 112
7440-41-7	Beryllium	0.00018J	0.000082	0.50	0.49	98	89 - 113
7440-43-9	Cadmium	0.00027J	0.00010	0.50	0.48	97	88 - 111
7440-70-2	Calcium	0.15	0.024	5.00	4.55	91	90 - 111
7440-47-3	Chromium	0.0012J	0.00034	0.50	0.49	98	90 - 113
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.49	98	89 - 111
7440-50-8	Copper	0.0017U	0.0017	0.50	0.48	96	86 - 112
7439-89-6	Iron	0.027U	0.027	5.00	4.57	91	89 - 116
7439-92-1	Lead	0.0028U	0.0028	0.50	0.48	95	89 - 109
7439-95-4	Magnesium	0.012U	0.012	5.00	4.71	94	92 - 113
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.47	95	90 - 110
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.49	99	89 - 111
7440-09-7	Potassium	0.083J	0.041	10.0	9.83	98	89 - 114
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.47	95	90 - 110
7440-22-4	Silver	0.00064U	0.00064	0.50	0.49	98	86 - 120
7440-23-5	Sodium	0.73J	0.056	20.0	21.6	108	90 - 117
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.48	96	88 - 108
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.49	97	91 - 111
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.49	97	84 - 111

Inorganics Quality Control Summary

Analytical Batch	486562	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486262	**GCAL ID**	21207250302	1089804	1089831
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/25/2012 13:10	07/25/2012 13:10	07/25/2012 13:10
		Analytical Date	07/29/2012 17:00	07/29/2012 17:08	07/29/2012 17:14
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**			**Control**				**RPD**
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**Limit**
7440-38-2	Arsenic	0.022	0.0035	0.50	0.54	104	84 - 124	0.56	107	3	25
7440-39-3	Barium	0.0	0.0016	0.50	0.47	93	85 - 120	0.47	94	1	25
7440-41-7	Beryllium	0.0012	0.000082	0.50	0.48	96	79 - 121	0.49	97	2	25
7440-43-9	Cadmium	0.0028	0.00010	0.50	0.44	88	82 - 119	0.45	89	1	25
7440-70-2	Calcium	569	0.024	5.00	527	**-800***	48 - 153	509	**-1000***	3	25
7440-48-4	Cobalt	0.00052	0.00052	0.50	0.44	89	82 - 119	0.45	90	1	25
7439-92-1	Lead	0.0	0.0028	0.50	0.42	84	62 - 146	0.43	86	2	25
7439-95-4	Magnesium	691	0.012	5.00	641	**-1000***	62 - 146	622	**-1000***	3	25
7439-96-5	Manganese	0.0	0.00083	0.50	0.46	92	79 - 121	0.47	93	1	25
7440-02-0	Nickel	0.0018	0.00084	0.50	0.44	87	84 - 120	0.45	89	2	25
7440-09-7	Potassium	21.2	0.041	10.0	30.1	89	76 - 132	32.5	114	8	25
7440-22-4	Silver	0.0	0.00064	0.50	0.52	104	75 - 141	0.53	106	3	25
7440-28-0	Thallium	0.0095	0.0026	0.50	0.42	**82***	90 - 116	0.43	**84***	3	25
7440-62-2	Vanadium	0.033	0.0012	0.50	0.53	100	85 - 120	0.54	102	3	25
7440-66-6	Zinc	0.014	0.0059	0.50	0.50	98	60 - 137	0.51	100	2	25

Analytical Batch	486711	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486262	**GCAL ID**	21207250302	1089804	1089831
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/25/2012 13:10	07/25/2012 13:10	07/25/2012 13:10
		Analytical Date	07/31/2012 16:18	07/31/2012 15:51	07/31/2012 15:58
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**			**Control**				**RPD**
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**Limit**
7440-23-5	Sodium	2900	0.56	20.0	2860	**-200***	70 - 203	2750	**-800***	4	25

Inorganics Quality Control Summary

Analytical Batch	486833	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486262	**GCAL ID**	21207250302	1089804	1089831
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/25/2012 13:10	07/25/2012 13:10	07/25/2012 13:10
		Analytical Date	08/01/2012 13:57	08/01/2012 14:04	08/01/2012 14:10
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.035	0.024	5.00	4.83	96	83 - 119	4.86	97	0.7	25
7440-36-0	Antimony	0.0	0.0040	0.50	0.54	108	81 - 124	0.56	112	4	25
7439-89-6	Iron	0.0	0.027	5.00	4.71	94	52 - 155	4.82	96	2	25
7782-49-2	Selenium	0.015	0.0038	0.50	0.59	115	71 - 140	0.60	118	3	25
7440-47-3	Chromium	0.0	0.00034	0.50	0.46	92	73 - 135	0.47	94	2	25
7440-50-8	Copper	0.0024	0.0017	0.50	0.52	104	82 - 129	0.53	105	2	25

General Chemistry Quality Control Summary

Analytical Batch 486267	**Client ID**	MB486267			LCS486267		
Prep Batch N/A	**GCAL ID**	1089842			1089843		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/25/2012 12:40			07/25/2012 12:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	7.00U	7.00	1000	931	93.1	90 - 110

Analytical Batch 486267	**Client ID**	MW-08-03		1089794DUP		
Prep Batch N/A	**GCAL ID**	21207250302		1089844		
	Sample Type	SAMPLE		DUP		
	Analytical Date	07/25/2012 12:40		07/25/2012 12:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	13210	7.00	13500	2.1	5

General Chemistry Quality Control Summary

Analytical Batch 486277		**Client ID**	MB486277			LCS486277			LCSD486277		
Prep Batch N/A		**GCAL ID**	1089883			1089884			1089885		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/24/2012 19:30			07/24/2012 19:47			07/24/2012 20:05		
		Matrix	Water			Water			Water		
EPA 300.0 Inorganic Anions		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
16887-00-6	Chloride		0.021U	0.021	2.50	2.50	100	80 - 120	2.48	99.3	0.72	25
14797-55-8	Nitrate		0.078U	0.078	2.50	2.46	98.3	80 - 120	2.43	97.2	1.1	25
14797-65-0	Nitrite		0.059U	0.059	2.50	2.46	98.4	80 - 120	2.43	97.3	1.1	25
16984-48-8	Fluoride		0.086U	0.086	2.50	2.38	95.2	80 - 120	2.36	94.6	0.67	25
14808-79-8	Sulfate		0.079U	0.079	5.00	4.97	99.4	80 - 120	4.94	98.8	0.59	25

Analytical Batch 486277		**Client ID**	MW-08-08			1089825MS		
Prep Batch N/A		**GCAL ID**	21207250602			1089886		
		Sample Type	SAMPLE			MS		
		Analytical Date	07/25/2012 19:24			07/25/2012 19:41		
		Matrix	Water			Water		
EPA 300.0 Inorganic Anions		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
16887-00-6	Chloride		12400	105	12500	25600	105	75 - 125
14808-79-8	Sulfate		8070	395	12500	20200	96.9	75 - 125

Analytical Batch 486277		**Client ID**	MW-08-08			1089825MS			1089825MSD			
Prep Batch N/A		**GCAL ID**	21207250602			1089886			1089887			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	07/25/2012 13:49			07/25/2012 15:34			07/25/2012 15:52			
		Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
14797-55-8	Nitrate		25.8	3.90	125	149	98.6	75 - 125	149	98.8	0.15	25

NATIONVIEW | 4771 | 212072503 | 8/03/12

Page: 1 of 1

NV Project No: 10-0004

COC Number(1): 07242012-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q3)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Fluoride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	TAL Metals [Total] (6010B/7470A)	TDS (SM19 2540C)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)									Quality Assurance Samples (6)				
MW-08-02	MW-08-02	7/23/2012	1550	-	N	1	WG	7	X	X	X	X	X							1	1
MW-08-03	MW-08-03	7/23/2012	1450	-	N	1	WG	7	X	X	X	X	X							1	2
MW-08-04	MW-08-04	7/23/2012	1315	-	N	1	WG	7	X	X	X	X	X							1	3
Trip Blank							WQ	3	X										211020	1	4
				-																	
				-																	
				-																	
				-																	
				-																	
				-																	

COMMENTS: **Dissolved TAL Metals filtered in the field**

3.3°C

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Jeff Moore	7/24/12	1400	1. Fedex		
2. Fedex	7/25/12	0955	2. [illegible]	7/25/12	0955
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 7938 2284 4493

Analytical Lab: GCAL Delivery Location: Baton Rogue, LA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

SDG
212072503

PROJECT

Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile 204817 - Holloman AFB	**Received By** Pfeifer, Ben J.
Line Item(s) 3 - SD-08	**Receive Date(s)** 07/25/12

CHECKLIST

Were all samples received using proper thermal preservation?	☑ Yes	☐ No	☐ NA
When used, were all custody seals intact?	☑ Yes	☐ No	☐ NA
Were all samples received in proper containers?	☑ Yes	☐ No	☐ NA
Were all samples received using proper chemical preservation?	☑ Yes	☐ No	☐ NA
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ NA
Were all containers received in good condition?	☑ Yes	☐ No	☐ NA
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ NA
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ NA
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ NA

COOLERS

Airbill	Temp(oC)
7938 2284 4493	3.3

DISCREPANCIES

None

LABORATORY PRESERVATIONS

None

NOTES

212072503

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 08/06/2012

GCAL Report 212072505

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB SD08 Qrtly GW-Q3

CASE NARRATIVE

Client: NationView LLC **Report:** 212072505

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

Several Dissolved Metals concentration is greater than the Total concentration for several elements in several samples. This is attributed to separate aliquots of sample.

In the SW-846 6010B Dissolved and Total analyses, sample 21207250501 (MW-08-01) 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 6010B Dissolved analysis for prep batch 486262, 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 MS and/or MSD recovery is outside the control limits for Thallium. 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 for prep batch 486261, the MS/MSD recoveries are not applicable for Magnesium, Calcium and Sodium because the sample concentration is greater than four times the spike concentration.

CONVENTIONALS

In the EPA 300.0 analysis, samples 21207250501 (MW-08-01), 21207250502 (MW-08-07) and 21207250503 (MW-08-07-a) had to be diluted in order to bracket the concentration within the calibration range of the instrument.

In the EPA 300.0 analysis, a chemical or physical interference necessitated a dilution for sample 21207250501 (MW-08-01). This is reflected in the elevated reporting limit.

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
Technical Director
GCAL REPORT 212072505

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250501	MW-08-01	Water	07/23/2012 13:30	07/25/2012 09:55
21207250502	MW-08-07	Water	07/23/2012 15:15	07/25/2012 09:55
21207250503	MW-08-07-a	Water	07/23/2012 15:15	07/25/2012 09:55
21207250504	TRIP BLANK	Water	07/23/2012 00:00	07/25/2012 09:55

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250501	**MW-08-01**	Water	07/23/2012 13:30	07/25/2012 09:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0098J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0023J	0.0050	0.00010	mg/L
7440-50-8	Copper	0.0083J	0.010	0.0017	mg/L
7439-89-6	Iron	4.89	0.10	0.027	mg/L
7439-95-4	Magnesium	572	0.10	0.012	mg/L
7439-96-5	Manganese	1.56	0.015	0.00083	mg/L
7782-49-2	Selenium	0.0061J	0.040	0.0038	mg/L
7440-62-2	Vanadium	0.038	0.020	0.0012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	444	0.10	0.024	mg/L
7440-09-7	Potassium	5.31	0.50	0.041	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1670	5.00	0.28	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0037J	0.010	0.0035	mg/L
7440-39-3	Barium	0.0093J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0026J	0.0050	0.00010	mg/L
7440-48-4	Cobalt	0.00075J	0.010	0.00052	mg/L
7440-50-8	Copper	0.0072J	0.010	0.0017	mg/L
7439-89-6	Iron	5.17	0.10	0.027	mg/L
7439-95-4	Magnesium	590	0.10	0.012	mg/L
7439-96-5	Manganese	1.71	0.015	0.00083	mg/L
7440-28-0	Thallium	0.0050J	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.032	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	475	0.10	0.024	mg/L
7440-09-7	Potassium	5.24	0.50	0.041	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1760	5.00	0.28	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250501	**MW-08-01**	Water	07/23/2012 13:30	07/25/2012 09:55

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9140	10.0	7.00	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	5.41	1.00	0.860	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	16.3	5.00	0.119	ug/L
78-87-5	1,2-Dichloropropane	2.98J	5.00	0.150	ug/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	519	100	21.0	mg/L
14808-79-8	Sulfate	5540	200	79.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250502	**MW-08-07**	Water	07/23/2012 15:15	07/25/2012 09:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.043	0.010	0.0035	mg/L
7440-39-3	Barium	0.012	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0022J	0.0050	0.00010	mg/L
7440-48-4	Cobalt	0.0054J	0.010	0.00052	mg/L
7440-50-8	Copper	0.015	0.010	0.0017	mg/L
7439-89-6	Iron	0.041J	0.10	0.027	mg/L
7439-95-4	Magnesium	186	0.10	0.012	mg/L
7439-96-5	Manganese	1.95	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0056J	0.040	0.00084	mg/L
7440-62-2	Vanadium	0.075	0.020	0.0012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	633	0.10	0.024	mg/L
7440-09-7	Potassium	4.95	0.50	0.041	mg/L
7440-23-5	Sodium	402	1.00	0.056	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250502	**MW-08-07**	Water	07/23/2012 15:15	07/25/2012 09:55

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.053	0.010	0.0035	mg/L
7440-39-3	Barium	0.0093J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0022J	0.0050	0.00010	mg/L
7440-48-4	Cobalt	0.0036J	0.010	0.00052	mg/L
7440-50-8	Copper	0.015	0.010	0.0017	mg/L
7439-95-4	Magnesium	189	0.10	0.012	mg/L
7439-96-5	Manganese	1.53	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0032J	0.040	0.00084	mg/L
7782-49-2	Selenium	0.0046J	0.040	0.0038	mg/L
7440-62-2	Vanadium	0.074	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	648	0.10	0.024	mg/L
7440-09-7	Potassium	5.14	0.50	0.041	mg/L
7440-23-5	Sodium	412	1.00	0.056	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	4330	10.0	7.00	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	3.29	0.500	0.430	mg/L
14797-55-8	Nitrate	0.927J	2.50	0.390	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	81.5	5.00	0.119	ug/L
78-87-5	1,2-Dichloropropane	1.30J	5.00	0.150	ug/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	446	50.0	10.5	mg/L
14808-79-8	Sulfate	2230	100	39.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250503	**MW-08-07-a**	Water	07/23/2012 15:15	07/25/2012 09:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.028J	0.20	0.024	mg/L
7440-38-2	Arsenic	0.044	0.010	0.0035	mg/L
7440-39-3	Barium	0.013	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0021J	0.0050	0.00010	mg/L
7440-48-4	Cobalt	0.0062J	0.010	0.00052	mg/L
7440-50-8	Copper	0.015	0.010	0.0017	mg/L
7439-89-6	Iron	0.064J	0.10	0.027	mg/L
7439-95-4	Magnesium	180	0.10	0.012	mg/L
7439-96-5	Manganese	1.99	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0057J	0.040	0.00084	mg/L
7440-28-0	Thallium	0.0032J	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.074	0.020	0.0012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	607	0.10	0.024	mg/L
7440-09-7	Potassium	4.95	0.50	0.041	mg/L
7440-23-5	Sodium	402	1.00	0.056	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.039J	0.20	0.024	mg/L
7440-36-0	Antimony	0.0043J	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.049	0.010	0.0035	mg/L
7440-39-3	Barium	0.0087J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0019J	0.0050	0.00010	mg/L
7440-47-3	Chromium	0.00040J	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.0036J	0.010	0.00052	mg/L
7440-50-8	Copper	0.015	0.010	0.0017	mg/L
7439-95-4	Magnesium	178	0.10	0.012	mg/L
7439-96-5	Manganese	1.44	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0044J	0.040	0.00084	mg/L
7782-49-2	Selenium	0.0083J	0.040	0.0038	mg/L
7440-62-2	Vanadium	0.071	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	568	0.10	0.024	mg/L
7440-09-7	Potassium	5.20	0.50	0.041	mg/L
7440-23-5	Sodium	407	1.00	0.056	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250503	**MW-08-07-a**	Water	07/23/2012 15:15	07/25/2012 09:55

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	4360	10.0	7.00	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	3.35	0.500	0.430	mg/L
14797-55-8	Nitrate	1.26J	2.50	0.390	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	26.0	5.00	0.119	ug/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	452	50.0	10.5	mg/L
14808-79-8	Sulfate	2270	100	39.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250501	**MW-08-01**	Water	07/23/2012 13:30	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 23:42	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	**1,2-Dichloroethane**	**16.3**	**5.00**	**0.119**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	**1,2-Dichloropropane**	**2.98J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250501	**MW-08-01**	Water	07/23/2012 13:30	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 23:42	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	49.4	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A Dissolved	1	07/30/2012 15:55	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A	1	07/30/2012 15:57	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250501	**MW-08-01**	Water	07/23/2012 13:30	07/25/2012 09:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/01/2012 19:54	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.0035U	0.010	0.0035	mg/L
7440-39-3	**Barium**	**0.0098J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0023J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.00052U	0.010	0.00052	mg/L
7440-50-8	**Copper**	**0.0083J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	**Iron**	**4.89**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**572**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**1.56**	**0.015**	**0.00083**	**mg/L**
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7782-49-2	**Selenium**	**0.0061J**	**0.040**	**0.0038**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.038**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	5	08/02/2012 18:17	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1670**	**5.00**	**0.28**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/02/2012 19:47	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**444**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**5.31**	**0.50**	**0.041**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 18:30	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.0037J**	**0.010**	**0.0035**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250501	**MW-08-01**	Water	07/23/2012 13:30	07/25/2012 09:55

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 18:30	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**0.0093J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0026J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	**Cobalt**	**0.00075J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.0072J**	**0.010**	**0.0017**	**mg/L**
7439-89-6	**Iron**	**5.17**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**590**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**1.71**	**0.015**	**0.00083**	**mg/L**
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	**Thallium**	**0.0050J**	**0.020**	**0.0026**	**mg/L**
7440-62-2	**Vanadium**	**0.032**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	5	08/02/2012 18:10	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1760**	**5.00**	**0.28**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/02/2012 22:34	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**475**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**5.24**	**0.50**	**0.041**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2012 12:40	DJH	486267

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**9140**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250501	**MW-08-01**	Water	07/23/2012 13:30	07/25/2012 09:55

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/25/2012 11:27	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**5.41**	**1.00**	**0.860**	**mg/L**
14797-55-8	Nitrate	0.780U	5.00	0.780	mg/L
14797-65-0	Nitrite	0.590U	5.00	0.590	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	07/25/2012 16:27	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**519**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**5540**	**200**	**79.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250502	**MW-08-07**	Water	07/23/2012 15:15	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/28/2012 00:02	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	**1,2-Dichloroethane**	**81.5**	**5.00**	**0.119**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	**1,2-Dichloropropane**	**1.30J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250502	**MW-08-07**	Water	07/23/2012 15:15	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/28/2012 00:02	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.1	ug/L	90	84 - 120
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A Dissolved	1	07/30/2012 15:59	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A	1	07/30/2012 16:00	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250502	**MW-08-07**	Water	07/23/2012 15:15	07/25/2012 09:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/01/2012 20:00	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.043**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.012**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0022J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	**Cobalt**	**0.0054J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.015**	**0.010**	**0.0017**	**mg/L**
7439-89-6	**Iron**	**0.041J**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**186**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**1.95**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0056J**	**0.040**	**0.00084**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.075**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/02/2012 19:55	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**633**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**4.95**	**0.50**	**0.041**	**mg/L**
7440-23-5	**Sodium**	**402**	**1.00**	**0.056**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 18:36	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.053**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.0093J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0022J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	**Cobalt**	**0.0036J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.015**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**189**	**0.10**	**0.012**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250502	**MW-08-07**	Water	07/23/2012 15:15	07/25/2012 09:55

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 18:36	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7439-96-5	**Manganese**	**1.53**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0032J**	**0.040**	**0.00084**	**mg/L**
7782-49-2	**Selenium**	**0.0046J**	**0.040**	**0.0038**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.074**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/02/2012 22:41	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**648**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**5.14**	**0.50**	**0.041**	**mg/L**
7440-23-5	**Sodium**	**412**	**1.00**	**0.056**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2012 12:40	DJH	486267

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**4330**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	07/25/2012 12:20	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**3.29**	**0.500**	**0.430**	**mg/L**
14797-55-8	**Nitrate**	**0.927J**	**2.50**	**0.390**	**mg/L**
14797-65-0	Nitrite	0.295U	2.50	0.295	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	07/25/2012 17:20	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**446**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**2230**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250503	**MW-08-07-a**	Water	07/23/2012 15:15	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/28/2012 00:22	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	**1,2-Dichloroethane**	**26.0**	**5.00**	**0.119**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250503	**MW-08-07-a**	Water	07/23/2012 15:15	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/28/2012 00:22	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.8	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	50.4	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49	ug/L	98	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A Dissolved	1	07/30/2012 16:05	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A	1	07/30/2012 16:07	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250503	**MW-08-07-a**	Water	07/23/2012 15:15	07/25/2012 09:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/01/2012 20:07	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.028J**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.044**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.013**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0021J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	**Cobalt**	**0.0062J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.015**	**0.010**	**0.0017**	**mg/L**
7439-89-6	**Iron**	**0.064J**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**180**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**1.99**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0057J**	**0.040**	**0.00084**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	**Thallium**	**0.0032J**	**0.020**	**0.0026**	**mg/L**
7440-62-2	**Vanadium**	**0.074**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/02/2012 20:02	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**607**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**4.95**	**0.50**	**0.041**	**mg/L**
7440-23-5	**Sodium**	**402**	**1.00**	**0.056**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 18:43	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.039J**	**0.20**	**0.024**	**mg/L**
7440-36-0	**Antimony**	**0.0043J**	**0.060**	**0.0040**	**mg/L**
7440-38-2	**Arsenic**	**0.049**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.0087J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0019J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	**Chromium**	**0.00040J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	**Cobalt**	**0.0036J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.015**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**178**	**0.10**	**0.012**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250503	**MW-08-07-a**	Water	07/23/2012 15:15	07/25/2012 09:55

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 18:43	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7439-96-5	**Manganese**	**1.44**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0044J**	**0.040**	**0.00084**	**mg/L**
7782-49-2	**Selenium**	**0.0083J**	**0.040**	**0.0038**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	Thallium	0.0026U	0.020	0.0026	mg/L
7440-62-2	**Vanadium**	**0.071**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/02/2012 22:48	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**568**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**5.20**	**0.50**	**0.041**	**mg/L**
7440-23-5	**Sodium**	**407**	**1.00**	**0.056**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2012 12:40	DJH	486267

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**4360**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	07/25/2012 12:38	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**3.35**	**0.500**	**0.430**	**mg/L**
14797-55-8	**Nitrate**	**1.26J**	**2.50**	**0.390**	**mg/L**
14797-65-0	Nitrite	0.295U	2.50	0.295	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	07/25/2012 18:13	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**452**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**2270**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250504	**TRIP BLANK**	Water	07/23/2012 00:00	07/25/2012 09:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/28/2012 00:42	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250504	**TRIP BLANK**	Water	07/23/2012 00:00	07/25/2012 09:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/28/2012 00:42	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.1	ug/L	90	84 - 120
1868-53-7	Dibromofluoromethane	50	51.2	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	49.8	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.9	ug/L	98	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 486507		**Client ID**	MB486507			LCS486507			LCSD486507		
Prep Batch N/A		**GCAL ID**	1091113			1091114			1091115		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/27/2012 17:50			07/27/2012 16:49			07/27/2012 17:09		
		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		0.399U	0.399	50.0	47.8	96	59 - 134	53.6	107	11	30
74-97-5	Bromochloromethane		0.127U	0.127	50.0	54.3	109	78 - 112	55.4	111	2	30
75-27-4	Bromodichloromethane		0.076U	0.076	50.0	53.5	107	76 - 116	55.9	112	4	30
75-25-2	Bromoform		0.150U	0.150	50.0	45.4	91	68 - 128	47.9	96	5	30
74-83-9	Bromomethane		0.427U	0.427	50.0	51.1	102	55 - 151	52.8	106	3	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	57.9	116	67 - 147	58.5	117	1	30
56-23-5	Carbon tetrachloride		0.146U	0.146	50.0	53.0	106	74 - 139	55.4	111	4	30
75-00-3	Chloroethane		0.235U	0.235	50.0	59.4	119	54 - 166	60.1	120	1	30
136777-61-2	m,p-Xylene		0.237U	0.237	100	101	101	83 - 121	103	103	2	30
67-66-3	Chloroform		0.109U	0.109	50.0	54.5	109	85 - 123	56.1	112	3	30
74-87-3	Chloromethane		0.058U	0.058	50.0	66.2	132	55 - 173	69.0	138	4	30
124-48-1	Dibromochloromethane		0.076U	0.076	50.0	50.4	101	74 - 116	53.5	107	6	30
74-95-3	Dibromomethane		0.131U	0.131	50.0	54.0	108	81 - 116	54.6	109	1	30
75-71-8	Dichlorodifluoromethane		0.154U	0.154	50.0	70.8	142	34 - 158	73.3	147	3	30
75-34-3	1,1-Dichloroethane		0.138U	0.138	50.0	54.7	109	82 - 127	56.5	113	3	30
107-06-2	1,2-Dichloroethane		0.119U	0.119	50.0	48.4	97	76 - 122	50.4	101	4	30
156-59-2	cis-1,2-Dichloroethene		0.134U	0.134	50.0	51.7	103	81 - 114	54.4	109	5	30
156-60-5	trans-1,2-Dichloroethene		0.075U	0.075	50.0	54.1	108	82 - 126	55.6	111	3	30
75-09-2	Methylene chloride		0.149U	0.149	50.0	55.2	110	69 - 125	57.5	115	4	30
78-87-5	1,2-Dichloropropane		0.150U	0.150	50.0	55.3	111	81 - 120	58.0	116	5	30
10061-01-5	cis-1,3-Dichloropropene		0.092U	0.092	50.0	52.5	105	83 - 119	55.6	111	6	30
10061-02-6	trans-1,3-Dichloropropene		0.146U	0.146	50.0	51.2	102	87 - 123	53.6	107	5	30
100-41-4	Ethylbenzene		0.119U	0.119	50.0	50.2	100	87 - 118	51.3	103	2	30
591-78-6	2-Hexanone		0.093U	0.093	50.0	42.5	85	58 - 125	46.1	92	8	30
98-82-8	Isopropylbenzene (Cumene)		0.123U	0.123	50.0	50.9	102	87 - 131	50.6	101	0.6	30
78-93-3	2-Butanone		0.362U	0.362	50.0	49.6	99	61 - 127	53.6	107	8	30
74-88-4	Methyl iodide		0.084U	0.084	50.0	53.9	108	72 - 125	55.2	110	2	30
108-10-1	4-Methyl-2-pentanone		0.079U	0.079	50.0	43.9	88	62 - 125	46.7	93	6	30
103-65-1	n-Propylbenzene		0.102U	0.102	50.0	53.9	108	86 - 125	52.9	106	2	30
100-42-5	Styrene		0.098U	0.098	50.0	50.3	101	78 - 118	52.6	105	4	30
127-18-4	Tetrachloroethene		0.126U	0.126	50.0	50.6	101	80 - 131	50.8	102	0.4	30
630-20-6	1,1,1,2-Tetrachloroethane		0.103U	0.103	50.0	50.5	101	81 - 119	52.4	105	4	30
79-34-5	1,1,2,2-Tetrachloroethane		0.108U	0.108	50.0	50.6	101	71 - 120	53.0	106	5	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 486507		**Client ID**	MB486507			LCS486507			LCSD486507		
Prep Batch N/A		**GCAL ID**	1091113			1091114			1091115		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/27/2012 17:50			07/27/2012 16:49			07/27/2012 17:09		
		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	0.156U	0.156		50.0	52.6	105	68 - 123	59.6	119	12	30
71-55-6	1,1,1-Trichloroethane	0.085U	0.085		50.0	51.1	102	79 - 133	52.2	104	2	30
79-00-5	1,1,2-Trichloroethane	0.147U	0.147		50.0	50.0	100	80 - 114	53.2	106	6	30
75-69-4	Trichlorofluoromethane	0.131U	0.131		50.0	50.2	100	66 - 156	51.2	102	2	30
96-18-4	1,2,3-Trichloropropane	0.098U	0.098		50.0	48.4	97	77 - 115	51.4	103	6	30
95-63-6	1,2,4-Trimethylbenzene	0.102U	0.102		50.0	52.9	106	82 - 120	52.6	105	0.6	30
108-67-8	1,3,5-Trimethylbenzene	0.075U	0.075		50.0	52.8	106	83 - 123	52.5	105	0.6	30
75-01-4	Vinyl chloride	0.137U	0.137		50.0	59.7	119	57 - 153	61.3	123	3	30
95-47-6	o-Xylene	0.147U	0.147		50.0	49.1	98	83 - 121	51.3	103	4	30
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	0.178		50.0	42.5	85	61 - 118	47.7	95	12	30
106-93-4	1,2-Dibromoethane	0.100U	0.100		50.0	48.0	96	80 - 115	50.4	101	5	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	0.060		50.0	45.9	92	75 - 116	49.1	98	7	30
540-59-0	1,2-Dichloroethene(Total)	0.209U	0.209		100	106	106	74 - 128	110	110	4	30
99-87-6	4-Isopropyltoluene	0.082U	0.082		50.0	52.5	105	83 - 125	52.2	104	0.6	30
1330-20-7	Xylene (total)	0.384U	0.384		150	150	100	74 - 127	155	103	3	30
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	0.312		50.0	41.6	83	51 - 137	40.1	80	4	30
594-20-7	2,2-Dichloropropane	0.181U	0.181		50.0	50.8	102	77 - 138	52.6	105	3	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158		50.0	56.3	113	74 - 139	57.7	115	2	30
563-58-6	1,1-Dichloropropene	0.121U	0.121		50.0	52.5	105	87 - 127	53.7	107	2	30
142-28-9	1,3-Dichloropropane	0.072U	0.072		50.0	48.1	96	81 - 113	50.3	101	4	30
108-86-1	Bromobenzene	0.109U	0.109		50.0	51.6	103	83 - 115	53.6	107	4	30
95-49-8	2-Chlorotoluene	0.108U	0.108		50.0	51.3	103	81 - 121	52.1	104	2	30
106-43-4	4-Chlorotoluene	0.117U	0.117		50.0	52.1	104	84 - 120	52.9	106	2	30
98-06-6	tert-Butylbenzene	0.097U	0.097		50.0	50.9	102	83 - 126	50.4	101	1	30
135-98-8	sec-Butylbenzene	0.111U	0.111		50.0	54.0	108	86 - 127	53.2	106	1	30
541-73-1	1,3-Dichlorobenzene	0.135U	0.135		50.0	51.6	103	86 - 115	52.1	104	1	30
106-46-7	1,4-Dichlorobenzene	0.110U	0.110		50.0	51.1	102	87 - 113	51.4	103	0.6	30
104-51-8	n-Butylbenzene	0.152U	0.152		50.0	52.8	106	84 - 124	53.2	106	0.8	30
95-50-1	1,2-Dichlorobenzene	0.117U	0.117		50.0	50.3	101	85 - 115	51.8	104	3	30
87-68-3	Hexachlorobutadiene	0.211U	0.211		50.0	49.0	98	71 - 133	62.6	125	24	30
91-20-3	Naphthalene	0.065U	0.065		50.0	47.3	95	59 - 125	56.6	113	18	35
75-35-4	1,1-Dichloroethene	0.208U	0.208		50.0	50.2	100	75 - 133	50.9	102	1	20
71-43-2	Benzene	0.099U	0.099		50.0	55.2	110	83 - 124	56.7	113	3	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	486507	**Client ID**	MB486507			LCS486507			LCSD486507		
Prep Batch	N/A	**GCAL ID**	1091113			1091114			1091115		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/27/2012 17:50			07/27/2012 16:49			07/27/2012 17:09		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**		**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
79-01-6	Trichloroethene	0.151U	0.151		50.0	52.5	105	85 - 124	53.3	107	2	20
108-88-3	Toluene	0.127U	0.127		50.0	50.3	101	86 - 116	52.4	105	4	20
108-90-7	Chlorobenzene	0.089U	0.089		50.0	50.4	101	87 - 115	52.3	105	4	20
Surrogate												
460-00-4	4-Bromofluorobenzene	45.2	90		50	46.7	93	84 - 120	46.9	94		
1868-53-7	Dibromofluoromethane	50.4	101		50	51	102	87 - 116	50.3	101		
2037-26-5	Toluene d8	49.7	99		50	48.4	97	86 - 112	49	98		
17060-07-0	1,2-Dichloroethane-d4	50	100		50	50.7	101	76 - 127	48.5	97		

Inorganics Quality Control Summary

Analytical Batch	486623	**Client ID**	MB486263			LCS486263		
Prep Batch	486263	**GCAL ID**	1089805			1089806		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	07/25/2012 11:50			07/25/2012 11:50		
		Analytical Date	07/30/2012 15:35			07/30/2012 15:36		
		Matrix	Water			Water		
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.000075U	0.000075	0.00500	0.00455	91	88 - 111

Analytical Batch	486623	**Client ID**	MW-08-02			1089793MS			1089793MSD			
Prep Batch	486263	**GCAL ID**	21207250301			1089808			1089832			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	07/25/2012 11:50			07/25/2012 11:50			07/25/2012 11:50			
		Analytical Date	07/30/2012 15:47			07/30/2012 15:39			07/30/2012 15:41			
		Matrix	Water			Water			Water			
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.00000	0.000075	0.00500	0.00426	85	75 - 125	0.00421	84	1	10

Inorganics Quality Control Summary

Analytical Batch	486623	**Client ID**	MB486263	LCS486263
Prep Batch	486263	**GCAL ID**	1089805	1089806
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	07/30/2012 15:35	07/30/2012 15:36
		Matrix	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000075U	0.000075	0.00500	0.00455	91	80 - 120

Analytical Batch	486623	**Client ID**	MW-08-02	1089793MS	1089793MSD
Prep Batch	486263	**GCAL ID**	21207250301	1089808	1089832
Prep Method	SW-846 7470A	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	07/25/2012 11:50	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	07/30/2012 15:47	07/30/2012 15:39	07/30/2012 15:41
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.000075	0.00500	0.00426	85	75 - 125	0.00421	84	1	20

Inorganics Quality Control Summary

Analytical Batch	486833	**Client ID**	MB486261	LCS486261
Prep Batch	486261	**GCAL ID**	1089797	1089798
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	08/01/2012 15:52	08/01/2012 16:00
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.040J	0.024	5.00	5.19	104	80 - 120
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.51	103	80 - 120
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.54	108	80 - 120
7440-39-3	Barium	0.0025J	0.0016	0.50	0.52	104	80 - 120
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.51	102	80 - 120
7440-43-9	Cadmium	0.00010U	0.00010	0.50	0.52	104	80 - 120
7440-70-2	Calcium	0.035J	0.024	5.00	5.10	102	80 - 120
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.50	101	80 - 120
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.52	104	80 - 120
7440-50-8	Copper	0.0017U	0.0017	0.50	0.50	100	80 - 120
7439-89-6	Iron	0.027U	0.027	5.00	5.13	103	80 - 120
7439-92-1	Lead	0.0028U	0.0028	0.50	0.53	106	80 - 120
7439-95-4	Magnesium	0.012U	0.012	5.00	5.26	105	80 - 120
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.50	99	80 - 120
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.53	106	80 - 120
7440-09-7	Potassium	0.041U	0.041	10.0	10.2	102	80 - 120
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.53	106	80 - 120
7440-22-4	Silver	0.00064U	0.00064	0.50	0.50	100	80 - 120
7440-23-5	Sodium	0.056U	0.056	20.0	20.3	101	80 - 120
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.53	106	80 - 120
7440-62-2	Vanadium	0.0033J	0.0012	0.50	0.51	101	80 - 120
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.51	103	80 - 120

Inorganics Quality Control Summary

Analytical Batch	486833	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486261	**GCAL ID**	21207250302	1089800	1089830
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	07/25/2012 11:50	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	08/01/2012 17:07	08/01/2012 17:14	08/01/2012 17:20
		Matrix	Water	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.034	0.024	5.00	4.69	93	75 - 125	4.79	95	2	20
7440-36-0	Antimony	0.0	0.0040	0.50	0.53	106	75 - 125	0.54	107	1	20
7440-38-2	Arsenic	0.013	0.0035	0.50	0.57	112	75 - 125	0.58	113	0.5	20
7440-39-3	Barium	0.0028	0.0016	0.50	0.48	95	75 - 125	0.48	96	1	20
7440-41-7	Beryllium	0.0	0.000082	0.50	0.48	95	75 - 125	0.48	97	1	20
7440-43-9	Cadmium	0.0012	0.00010	0.50	0.47	93	75 - 125	0.47	94	1	20
7440-47-3	Chromium	0.0	0.00034	0.50	0.45	90	75 - 125	0.46	92	1	20
7440-48-4	Cobalt	0.0	0.00052	0.50	0.47	93	75 - 125	0.47	93	0.08	20
7440-50-8	Copper	0.0043	0.0017	0.50	0.51	102	75 - 125	0.52	103	2	20
7439-89-6	Iron	0.0	0.027	5.00	4.64	93	75 - 125	4.62	92	0.3	20
7439-92-1	Lead	0.0	0.0028	0.50	0.46	93	75 - 125	0.47	94	1	20
7439-95-4	Magnesium	766	0.012	5.00	760	**-100***	75 - 125	782	**304***	3	20
7439-96-5	Manganese	0.0	0.00083	0.50	0.48	97	75 - 125	0.48	97	0.2	20
7440-02-0	Nickel	0.0	0.00084	0.50	0.46	91	75 - 125	0.45	91	0.5	20
7782-49-2	Selenium	0.014	0.0038	0.50	0.57	112	75 - 125	0.57	111	0.4	20
7440-22-4	Silver	0.0	0.00064	0.50	0.53	105	75 - 125	0.53	107	1	20
7440-28-0	Thallium	0.0033	0.0026	0.50	0.47	93	75 - 125	0.46	92	1	20
7440-62-2	Vanadium	0.060	0.0012	0.50	0.55	98	75 - 125	0.56	100	1	20
7440-66-6	Zinc	0.0	0.0059	0.50	0.50	101	75 - 125	0.51	102	1	20

Analytical Batch	486881	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486261	**GCAL ID**	21207250302	1089800	1089830
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	07/25/2012 11:50	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	08/02/2012 17:16	08/02/2012 17:23	08/02/2012 17:30
		Matrix	Water	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-70-2	Calcium	623	0.24	5.00	617	**-100***	75 - 125	636	**268***	3	20
7440-09-7	Potassium	19.3	0.41	10.0	29.0	97	75 - 125	29.7	104	3	20
7440-23-5	Sodium	3090	0.56	20.0	3160	**374***	75 - 125	3260	**874***	3	20

Inorganics Quality Control Summary

Analytical Batch	486562	**Client ID**	MB486262	LCS486262
Prep Batch	486262	**GCAL ID**	1089801	1089802
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	07/25/2012 13:10	07/25/2012 13:10
		Analytical Date	07/29/2012 16:47	07/29/2012 16:54
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.046J	0.024	5.00	4.61	92	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.48	95	88 - 108
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.48	96	88 - 109
7440-39-3	Barium	0.0016U	0.0016	0.50	0.49	97	92 - 112
7440-41-7	Beryllium	0.00018J	0.000082	0.50	0.49	98	89 - 113
7440-43-9	Cadmium	0.00027J	0.00010	0.50	0.48	97	88 - 111
7440-70-2	Calcium	0.15	0.024	5.00	4.55	91	90 - 111
7440-47-3	Chromium	0.0012J	0.00034	0.50	0.49	98	90 - 113
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.49	98	89 - 111
7440-50-8	Copper	0.0017U	0.0017	0.50	0.48	96	86 - 112
7439-89-6	Iron	0.027U	0.027	5.00	4.57	91	89 - 116
7439-92-1	Lead	0.0028U	0.0028	0.50	0.48	95	89 - 109
7439-95-4	Magnesium	0.012U	0.012	5.00	4.71	94	92 - 113
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.47	95	90 - 110
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.49	99	89 - 111
7440-09-7	Potassium	0.083J	0.041	10.0	9.83	98	89 - 114
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.47	95	90 - 110
7440-22-4	Silver	0.00064U	0.00064	0.50	0.49	98	86 - 120
7440-23-5	Sodium	0.73J	0.056	20.0	21.6	108	90 - 117
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.48	96	88 - 108
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.49	97	91 - 111
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.49	97	84 - 111

Inorganics Quality Control Summary

Analytical Batch	486562	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486262	**GCAL ID**	21207250302	1089804	1089831
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/25/2012 13:10	07/25/2012 13:10	07/25/2012 13:10
		Analytical Date	07/29/2012 17:00	07/29/2012 17:08	07/29/2012 17:14
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**			**Control**				**RPD**
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**Limit**
7440-38-2	Arsenic	0.022	0.0035	0.50	0.54	104	84 - 124	0.56	107	3	25
7440-39-3	Barium	0.0	0.0016	0.50	0.47	93	85 - 120	0.47	94	1	25
7440-41-7	Beryllium	0.0012	0.000082	0.50	0.48	96	79 - 121	0.49	97	2	25
7440-43-9	Cadmium	0.0028	0.00010	0.50	0.44	88	82 - 119	0.45	89	1	25
7440-70-2	Calcium	569	0.024	5.00	527	**-800***	48 - 153	509	**-1000***	3	25
7440-48-4	Cobalt	0.00052	0.00052	0.50	0.44	89	82 - 119	0.45	90	1	25
7439-92-1	Lead	0.0	0.0028	0.50	0.42	84	62 - 146	0.43	86	2	25
7439-95-4	Magnesium	691	0.012	5.00	641	**-1000***	62 - 146	622	**-1000***	3	25
7439-96-5	Manganese	0.0	0.00083	0.50	0.46	92	79 - 121	0.47	93	1	25
7440-02-0	Nickel	0.0018	0.00084	0.50	0.44	87	84 - 120	0.45	89	2	25
7440-09-7	Potassium	21.2	0.041	10.0	30.1	89	76 - 132	32.5	114	8	25
7440-22-4	Silver	0.0	0.00064	0.50	0.52	104	75 - 141	0.53	106	3	25
7440-28-0	Thallium	0.0095	0.0026	0.50	0.42	**82***	90 - 116	0.43	**84***	3	25
7440-62-2	Vanadium	0.033	0.0012	0.50	0.53	100	85 - 120	0.54	102	3	25
7440-66-6	Zinc	0.014	0.0059	0.50	0.50	98	60 - 137	0.51	100	2	25

Analytical Batch	486711	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486262	**GCAL ID**	21207250302	1089804	1089831
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/25/2012 13:10	07/25/2012 13:10	07/25/2012 13:10
		Analytical Date	07/31/2012 16:18	07/31/2012 15:51	07/31/2012 15:58
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**			**Control**				**RPD**
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**Limit**
7440-23-5	Sodium	2900	0.56	20.0	2860	**-200***	70 - 203	2750	**-800***	4	25

Inorganics Quality Control Summary

Analytical Batch	486833	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486262	**GCAL ID**	21207250302	1089804	1089831
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/25/2012 13:10	07/25/2012 13:10	07/25/2012 13:10
		Analytical Date	08/01/2012 13:57	08/01/2012 14:04	08/01/2012 14:10
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.035	0.024	5.00	4.83	96	83 - 119	4.86	97	0.7	25
7440-36-0	Antimony	0.0	0.0040	0.50	0.54	108	81 - 124	0.56	112	4	25
7439-89-6	Iron	0.0	0.027	5.00	4.71	94	52 - 155	4.82	96	2	25
7782-49-2	Selenium	0.015	0.0038	0.50	0.59	115	71 - 140	0.60	118	3	25
7440-47-3	Chromium	0.0	0.00034	0.50	0.46	92	73 - 135	0.47	94	2	25
7440-50-8	Copper	0.0024	0.0017	0.50	0.52	104	82 - 129	0.53	105	2	25

General Chemistry Quality Control Summary

Analytical Batch 486267	**Client ID**	MB486267			LCS486267		
Prep Batch N/A	**GCAL ID**	1089842			1089843		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/25/2012 12:40			07/25/2012 12:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	7.00U	7.00	1000	931	93.1	90 - 110

Analytical Batch 486267	**Client ID**	MW-08-03		1089794DUP		
Prep Batch N/A	**GCAL ID**	21207250302		1089844		
	Sample Type	SAMPLE		DUP		
	Analytical Date	07/25/2012 12:40		07/25/2012 12:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	13210	7.00	13500	2.1	5

General Chemistry Quality Control Summary

Analytical Batch 486277		**Client ID**	MB486277			LCS486277			LCSD486277		
Prep Batch N/A		**GCAL ID**	1089883			1089884			1089885		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/24/2012 19:30			07/24/2012 19:47			07/24/2012 20:05		
		Matrix	Water			Water			Water		
EPA 300.0 Inorganic Anions		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
16887-00-6	Chloride		0.021U	0.021	2.50	2.50	100	80 - 120	2.48	99.3	0.72	25
14797-55-8	Nitrate		0.078U	0.078	2.50	2.46	98.3	80 - 120	2.43	97.2	1.1	25
14797-65-0	Nitrite		0.059U	0.059	2.50	2.46	98.4	80 - 120	2.43	97.3	1.1	25
16984-48-8	Fluoride		0.086U	0.086	2.50	2.38	95.2	80 - 120	2.36	94.6	0.67	25
14808-79-8	Sulfate		0.079U	0.079	5.00	4.97	99.4	80 - 120	4.94	98.8	0.59	25

Analytical Batch 486277		**Client ID**	MW-08-08			1089825MS		
Prep Batch N/A		**GCAL ID**	21207250602			1089886		
		Sample Type	SAMPLE			MS		
		Analytical Date	07/25/2012 19:24			07/25/2012 19:41		
		Matrix	Water			Water		
EPA 300.0 Inorganic Anions		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
16887-00-6	Chloride		12400	105	12500	25600	105	75 - 125
14808-79-8	Sulfate		8070	395	12500	20200	96.9	75 - 125

Analytical Batch 486277		**Client ID**	MW-08-08			1089825MS			1089825MSD			
Prep Batch N/A		**GCAL ID**	21207250602			1089886			1089887			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	07/25/2012 13:49			07/25/2012 15:34			07/25/2012 15:52			
		Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
14797-55-8	Nitrate		25.8	3.90	125	149	98.6	75 - 125	149	98.8	0.15	25

NATIONVIEW | 4771 | 212072505 | 8/03/12

Page: 1 of 1

NV Project No: 10-0004

COC Number(1): 07242012-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q3)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Fluoride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	TAL Metals [Total] (6010B/7470A)	TDS (SM19 2540C)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)									Quality Assurance Samples (6)				
MW-08-01	MW-08-01	7/23/2012	1330	-	N	1	WG	7	X	X	X	X	X							2	1
MW-08-07	MW-08-07	7/23/2012	1515	-	N	1	WG	7	X	X	X	X	X							2	2
MW-08-07-A	MW-08-07	7/23/2012	1515	-	FD	1	WG	7	X	X	X	X	X							2	3
Trip Blank							WQ	3	X										2111020	2	4
				-																	
				-																	
				-																	
				-																	
				-																	
				-																	

COMMENTS: **Dissolved TAL Metals filtered in the field**

5.4°

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	7/24/12	1400	1. FedEx		
2. FedEx	7/25/12		2. [signature]	7/25/12	0955
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 7986 5345 3687

Analytical Lab: GCAL Delivery Location: Baton Rogue, LA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

SDG
212072505

PROJECT

Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile 204817 - Holloman AFB	**Received By** Pfeifer, Ben J.
Line Item(s) 3 - SD-08	**Receive Date(s)** 07/25/12

CHECKLIST

Were all samples received using proper thermal preservation?	☑ Yes	☐ No	☐ NA
When used, were all custody seals intact?	☑ Yes	☐ No	☐ NA
Were all samples received in proper containers?	☑ Yes	☐ No	☐ NA
Were all samples received using proper chemical preservation?	☑ Yes	☐ No	☐ NA
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ NA
Were all containers received in good condition?	☑ Yes	☐ No	☐ NA
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ NA
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ NA
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ NA

COOLERS

Airbill	Temp(oC)
7986 5345 3687	5.4

DISCREPANCIES

None

LABORATORY PRESERVATIONS

None

NOTES

212072505

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 08/06/2012

GCAL Report 212072506

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB SD08 Qrtly GW-Q3

CASE NARRATIVE

Client: NationView LLC **Report:** 212072506

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 486533, the LCS and/or LCSD recoveries are above the upper control limit for n-Butylbenzene. This analyte was not detected in the associated samples.

METALS

The dissolved concentration for several analytes is slightly greater than the total concentration of these analytes in several samples. This is attributed to separate aliquots of sample.

In the SW-846 6010B analysis, sample 21207250602 (MW-08-08) had to be diluted in order to bracket the concentration of target analytes within the linear dynamic range of the instrument and to eliminate a chemical or physical interference. The dilutions are reflected in elevated detection limits.

In the SW-846 6010B analysis, samples 21207250603 (SWMU183-MW03) and 21207250604 (S10-MW01) 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 6010B for prep batch 486262, the MS/MSD recoveries are outside the control limits for Thallium. The LCS recovery is acceptable. This indicates the system is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the batch QC sample with a recovery of 83%. The MS/MSD 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 6010B analysis for prep batch 486261, the MS/MSD recoveries are not applicable for Magnesium, Calcium and Sodium because the sample concentration is greater than four times the spike concentration.

CONVENTIONALS

In the EPA 300.0 analysis, all samples had to be diluted in order to bracket the concentration within the calibration range of the instrument and to eliminate background interference. The dilutions are reflected in elevated detection limits.

In the SM 2540 C analysis, sample 21207250602 (MW-08-08) had to be diluted prior to filtration in order not to exceed the maximum residue allowed by the method.

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
Technical Director
GCAL REPORT 212072506

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250601	MW-08-05	Water	07/24/2012 09:50	07/25/2012 09:55
21207250602	MW-08-08	Water	07/24/2012 08:50	07/25/2012 09:55
21207250603	SWMU183-MW03	Water	07/24/2012 10:15	07/25/2012 09:55
21207250604	S10-MW01	Water	07/24/2012 09:00	07/25/2012 09:55
21207250605	S10-MW06	Water	07/24/2012 11:15	07/25/2012 09:55
21207250606	TRIP BLANK	Water	07/24/2012 00:00	07/25/2012 09:55

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250601	**MW-08-05**	Water	07/24/2012 09:50	07/25/2012 09:55

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.013	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0023J	0.0050	0.00010	mg/L
7440-48-4	Cobalt	0.00093J	0.010	0.00052	mg/L
7440-50-8	Copper	0.011	0.010	0.0017	mg/L
7439-95-4	Magnesium	53.6	0.10	0.012	mg/L
7439-96-5	Manganese	0.036	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0011J	0.040	0.00084	mg/L
7782-49-2	Selenium	0.0040J	0.040	0.0038	mg/L
7440-28-0	Thallium	0.0048J	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.055	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	570	0.10	0.024	mg/L
7440-09-7	Potassium	7.72	0.50	0.041	mg/L
7440-23-5	Sodium	29.3	1.00	0.056	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.014	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0024J	0.0050	0.00010	mg/L
7440-47-3	Chromium	0.00063J	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.0011J	0.010	0.00052	mg/L
7440-50-8	Copper	0.011	0.010	0.0017	mg/L
7439-89-6	Iron	0.69	0.10	0.027	mg/L
7439-95-4	Magnesium	55.7	0.10	0.012	mg/L
7439-96-5	Manganese	0.047	0.015	0.00083	mg/L
7440-28-0	Thallium	0.0033J	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.051	0.020	0.0012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	653	0.10	0.024	mg/L
7440-09-7	Potassium	7.33	0.50	0.041	mg/L
7440-23-5	Sodium	27.9	1.00	0.056	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2700	10.0	7.00	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250601	**MW-08-05**	Water	07/24/2012 09:50	07/25/2012 09:55

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	4.55	0.500	0.430	mg/L
14797-55-8	Nitrate	0.434J	2.50	0.390	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	34.2	1.00	0.210	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	Sulfate	1590	100	39.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250602	**MW-08-08**	Water	07/24/2012 08:50	07/25/2012 09:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.52	0.40	0.047	mg/L
7440-39-3	Barium	0.0073J	0.020	0.0032	mg/L
7440-43-9	Cadmium	0.0014J	0.010	0.00021	mg/L
7440-48-4	Cobalt	0.0016J	0.020	0.0010	mg/L
7440-50-8	Copper	0.017J	0.020	0.0034	mg/L
7439-89-6	Iron	1.29	0.20	0.053	mg/L
7439-95-4	Magnesium	1630	0.20	0.024	mg/L
7439-96-5	Manganese	0.12	0.030	0.0017	mg/L
7782-49-2	Selenium	0.027J	0.080	0.0076	mg/L
7440-28-0	Thallium	0.0095J	0.040	0.0052	mg/L
7440-62-2	Vanadium	0.085	0.040	0.0025	mg/L
7440-66-6	Zinc	0.032J	0.040	0.012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	752	0.20	0.049	mg/L
7440-09-7	Potassium	40.1	1.00	0.081	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	7010	20.0	1.11	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250602	**MW-08-08**	Water	07/24/2012 08:50	07/25/2012 09:55

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0046J	0.020	0.0032	mg/L
7440-43-9	Cadmium	0.00033J	0.010	0.00021	mg/L
7440-50-8	Copper	0.020	0.020	0.0034	mg/L
7439-95-4	Magnesium	1530	0.20	0.024	mg/L
7439-96-5	Manganese	0.079	0.030	0.0017	mg/L
7782-49-2	Selenium	0.018J	0.080	0.0076	mg/L
7440-28-0	Thallium	0.0076J	0.040	0.0052	mg/L
7440-62-2	Vanadium	0.093	0.040	0.0025	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	662	0.20	0.049	mg/L
7440-09-7	Potassium	39.8	1.00	0.081	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	7090	20.0	1.11	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	25.8	25.0	3.90	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	30700	100	70.0	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	12400	500	105	mg/L
14808-79-8	Sulfate	8070	1000	395	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250603	**SWMU183-MW03**	Water	07/24/2012 10:15	07/25/2012 09:55

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0085J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0012J	0.0050	0.00010	mg/L
7440-48-4	Cobalt	0.00079J	0.010	0.00052	mg/L
7440-50-8	Copper	0.015	0.010	0.0017	mg/L
7439-95-4	Magnesium	201	0.10	0.012	mg/L
7439-96-5	Manganese	0.79	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0016J	0.040	0.00084	mg/L
7782-49-2	Selenium	0.012J	0.040	0.0038	mg/L
7440-28-0	Thallium	0.0042J	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.073	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	527	0.10	0.024	mg/L
7440-09-7	Potassium	6.75	0.50	0.041	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	809	5.00	0.28	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.18J	0.20	0.024	mg/L
7440-39-3	Barium	0.011	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0011J	0.0050	0.00010	mg/L
7440-47-3	Chromium	0.00050J	0.010	0.00034	mg/L
7440-48-4	Cobalt	0.0012J	0.010	0.00052	mg/L
7440-50-8	Copper	0.015	0.010	0.0017	mg/L
7439-89-6	Iron	0.18	0.10	0.027	mg/L
7439-95-4	Magnesium	198	0.10	0.012	mg/L
7439-96-5	Manganese	0.78	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0025J	0.040	0.00084	mg/L
7782-49-2	Selenium	0.018J	0.040	0.0038	mg/L
7440-28-0	Thallium	0.0047J	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.073	0.020	0.0012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	524	0.10	0.024	mg/L
7440-09-7	Potassium	6.44	0.50	0.041	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250603	**SWMU183-MW03**	Water	07/24/2012 10:15	07/25/2012 09:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	790	5.00	0.28	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	1.44	1.00	0.860	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5520	10.0	7.00	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	55.9	10.0	1.56	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	907	100	21.0	mg/L
14808-79-8	Sulfate	2780	200	79.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250604	**S10-MW01**	Water	07/24/2012 09:00	07/25/2012 09:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.012	0.010	0.0035	mg/L
7440-39-3	Barium	0.0046J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0014J	0.0050	0.00010	mg/L
7440-48-4	Cobalt	0.00094J	0.010	0.00052	mg/L
7440-50-8	Copper	0.012	0.010	0.0017	mg/L
7439-95-4	Magnesium	586	0.10	0.012	mg/L
7439-96-5	Manganese	0.23	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0035J	0.040	0.00084	mg/L
7782-49-2	Selenium	0.0070J	0.040	0.0038	mg/L
7440-28-0	Thallium	0.0030J	0.020	0.0026	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250604	**S10-MW01**	Water	07/24/2012 09:00	07/25/2012 09:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	Vanadium	0.087	0.020	0.0012	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	475	0.10	0.024	mg/L
7440-09-7	Potassium	22.5	0.50	0.041	mg/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	3170	10.0	0.56	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0087J	0.010	0.0035	mg/L
7440-39-3	Barium	0.0043J	0.010	0.0016	mg/L
7440-43-9	Cadmium	0.0011J	0.0050	0.00010	mg/L
7440-48-4	Cobalt	0.00067J	0.010	0.00052	mg/L
7440-50-8	Copper	0.014	0.010	0.0017	mg/L
7439-95-4	Magnesium	541	0.10	0.012	mg/L
7439-96-5	Manganese	0.21	0.015	0.00083	mg/L
7440-02-0	Nickel	0.0034J	0.040	0.00084	mg/L
7440-28-0	Thallium	0.0070J	0.020	0.0026	mg/L
7440-62-2	Vanadium	0.088	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	479	0.10	0.024	mg/L
7440-09-7	Potassium	20.5	0.50	0.041	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	3110	10.0	0.56	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	17.4	5.00	0.119	ug/L
79-01-6	Trichloroethene	1.21J	5.00	0.151	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250604	**S10-MW01**	Water	07/24/2012 09:00	07/25/2012 09:55

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	2.81	2.00	1.72	mg/L
14797-55-8	Nitrate	4.44J	10.0	1.56	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	14600	10.0	7.00	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3860	200	42.0	mg/L
14808-79-8	Sulfate	6190	400	158	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250601	**MW-08-05**	Water	07/24/2012 09:50	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/28/2012 01:02	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250601	**MW-08-05**	Water	07/24/2012 09:50	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/28/2012 01:02	EDS	486507

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.9	ug/L	90	84 - 120
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	49.5	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.3	ug/L	99	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A Dissolved	1	07/30/2012 16:08	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A	1	07/30/2012 16:10	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250601	**MW-08-05**	Water	07/24/2012 09:50	07/25/2012 09:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/01/2012 20:15	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.0035U	0.010	0.0035	mg/L
7440-39-3	**Barium**	**0.014**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0024J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	**Chromium**	**0.00063J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	**Cobalt**	**0.0011J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.011**	**0.010**	**0.0017**	**mg/L**
7439-89-6	**Iron**	**0.69**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**55.7**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**0.047**	**0.015**	**0.00083**	**mg/L**
7440-02-0	Nickel	0.00084U	0.040	0.00084	mg/L
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	**Thallium**	**0.0033J**	**0.020**	**0.0026**	**mg/L**
7440-62-2	**Vanadium**	**0.051**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/02/2012 20:56	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**653**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**7.33**	**0.50**	**0.041**	**mg/L**
7440-23-5	**Sodium**	**27.9**	**1.00**	**0.056**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 18:51	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.0035U	0.010	0.0035	mg/L
7440-39-3	**Barium**	**0.013**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0023J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	**Cobalt**	**0.00093J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.011**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**53.6**	**0.10**	**0.012**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250601	**MW-08-05**	Water	07/24/2012 09:50	07/25/2012 09:55

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 18:51	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7439-96-5	**Manganese**	**0.036**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0011J**	**0.040**	**0.00084**	**mg/L**
7782-49-2	**Selenium**	**0.0040J**	**0.040**	**0.0038**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	**Thallium**	**0.0048J**	**0.020**	**0.0026**	**mg/L**
7440-62-2	**Vanadium**	**0.055**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/02/2012 23:44	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**570**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**7.72**	**0.50**	**0.041**	**mg/L**
7440-23-5	**Sodium**	**29.3**	**1.00**	**0.056**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2012 12:40	DJH	486267

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2700**	**10.0**	**7.00**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	07/25/2012 13:31	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**4.55**	**0.500**	**0.430**	**mg/L**
14797-55-8	**Nitrate**	**0.434J**	**2.50**	**0.390**	**mg/L**
14797-65-0	Nitrite	0.295U	2.50	0.295	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	07/25/2012 19:06	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**1590**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250601	**MW-08-05**	Water	07/24/2012 09:50	07/25/2012 09:55

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/30/2012 15:41	JEM	486587

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**34.2**	**1.00**	**0.210**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250602	**MW-08-08**	Water	07/24/2012 08:50	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 22:21	CGC	486533

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250602	**MW-08-08**	Water	07/24/2012 08:50	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 22:21	CGC	486533

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.7	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.4	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.5	ug/L	105	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A Dissolved	1	07/30/2012 16:12	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A	1	07/30/2012 16:13	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250602	**MW-08-08**	Water	07/24/2012 08:50	07/25/2012 09:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	2	08/01/2012 20:21	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.52**	**0.40**	**0.047**	**mg/L**
7440-36-0	Antimony	0.0080U	0.12	0.0080	mg/L
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L
7440-39-3	**Barium**	**0.0073J**	**0.020**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	**Cadmium**	**0.0014J**	**0.010**	**0.00021**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	**Cobalt**	**0.0016J**	**0.020**	**0.0010**	**mg/L**
7440-50-8	**Copper**	**0.017J**	**0.020**	**0.0034**	**mg/L**
7439-89-6	**Iron**	**1.29**	**0.20**	**0.053**	**mg/L**
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**1630**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.12**	**0.030**	**0.0017**	**mg/L**
7440-02-0	Nickel	0.0017U	0.080	0.0017	mg/L
7782-49-2	**Selenium**	**0.027J**	**0.080**	**0.0076**	**mg/L**
7440-22-4	Silver	0.0013U	0.020	0.0013	mg/L
7440-28-0	**Thallium**	**0.0095J**	**0.040**	**0.0052**	**mg/L**
7440-62-2	**Vanadium**	**0.085**	**0.040**	**0.0025**	**mg/L**
7440-66-6	**Zinc**	**0.032J**	**0.040**	**0.012**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	2	08/02/2012 21:03	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**752**	**0.20**	**0.049**	**mg/L**
7440-09-7	**Potassium**	**40.1**	**1.00**	**0.081**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	20	08/03/2012 11:11	CLB	486962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**7010**	**20.0**	**1.11**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	2	08/01/2012 18:58	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.047U	0.40	0.047	mg/L
7440-36-0	Antimony	0.0080U	0.12	0.0080	mg/L
7440-38-2	Arsenic	0.0070U	0.020	0.0070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250602	**MW-08-08**	Water	07/24/2012 08:50	07/25/2012 09:55

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	2	08/01/2012 18:58	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**0.0046J**	**0.020**	**0.0032**	**mg/L**
7440-41-7	Beryllium	0.00016U	0.010	0.00016	mg/L
7440-43-9	**Cadmium**	**0.00033J**	**0.010**	**0.00021**	**mg/L**
7440-47-3	Chromium	0.00067U	0.020	0.00067	mg/L
7440-48-4	Cobalt	0.0010U	0.020	0.0010	mg/L
7440-50-8	**Copper**	**0.020**	**0.020**	**0.0034**	**mg/L**
7439-89-6	Iron	0.053U	0.20	0.053	mg/L
7439-92-1	Lead	0.0057U	0.030	0.0057	mg/L
7439-95-4	**Magnesium**	**1530**	**0.20**	**0.024**	**mg/L**
7439-96-5	**Manganese**	**0.079**	**0.030**	**0.0017**	**mg/L**
7440-02-0	Nickel	0.0017U	0.080	0.0017	mg/L
7782-49-2	**Selenium**	**0.018J**	**0.080**	**0.0076**	**mg/L**
7440-22-4	Silver	0.0013U	0.020	0.0013	mg/L
7440-28-0	**Thallium**	**0.0076J**	**0.040**	**0.0052**	**mg/L**
7440-62-2	**Vanadium**	**0.093**	**0.040**	**0.0025**	**mg/L**
7440-66-6	Zinc	0.012U	0.040	0.012	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	20	08/02/2012 18:24	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**7090**	**20.0**	**1.11**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	2	08/02/2012 23:51	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**662**	**0.20**	**0.049**	**mg/L**
7440-09-7	**Potassium**	**39.8**	**1.00**	**0.081**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/25/2012 12:40	DJH	486267

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**30700**	**100**	**70.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250602	**MW-08-08**	Water	07/24/2012 08:50	07/25/2012 09:55

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/25/2012 13:49	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	4.30U	5.00	4.30	mg/L
14797-55-8	**Nitrate**	**25.8**	**25.0**	**3.90**	**mg/L**
14797-65-0	Nitrite	2.95U	25.0	2.95	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	07/25/2012 19:24	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**12400**	**500**	**105**	**mg/L**
14808-79-8	**Sulfate**	**8070**	**1000**	**395**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250603	**SWMU183-MW03**	Water	07/24/2012 10:15	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 22:40	CGC	486533

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250603	**SWMU183-MW03**	Water	07/24/2012 10:15	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 22:40	CGC	486533

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	49	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	50.8	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.5	ug/L	103	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A Dissolved	1	07/30/2012 16:15	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A	1	07/30/2012 16:16	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250603	**SWMU183-MW03**	Water	07/24/2012 10:15	07/25/2012 09:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/01/2012 20:27	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.18J**	**0.20**	**0.024**	**mg/L**
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.0035U	0.010	0.0035	mg/L
7440-39-3	**Barium**	**0.011**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0011J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	**Chromium**	**0.00050J**	**0.010**	**0.00034**	**mg/L**
7440-48-4	**Cobalt**	**0.0012J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.015**	**0.010**	**0.0017**	**mg/L**
7439-89-6	**Iron**	**0.18**	**0.10**	**0.027**	**mg/L**
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**198**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**0.78**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0025J**	**0.040**	**0.00084**	**mg/L**
7782-49-2	**Selenium**	**0.018J**	**0.040**	**0.0038**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	**Thallium**	**0.0047J**	**0.020**	**0.0026**	**mg/L**
7440-62-2	**Vanadium**	**0.073**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	5	08/02/2012 18:45	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**790**	**5.00**	**0.28**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/02/2012 21:09	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**524**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**6.44**	**0.50**	**0.041**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 19:04	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.0035U	0.010	0.0035	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250603	**SWMU183-MW03**	Water	07/24/2012 10:15	07/25/2012 09:55

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 19:04	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**0.0085J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0012J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	**Cobalt**	**0.00079J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.015**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**201**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**0.79**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0016J**	**0.040**	**0.00084**	**mg/L**
7782-49-2	**Selenium**	**0.012J**	**0.040**	**0.0038**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	**Thallium**	**0.0042J**	**0.020**	**0.0026**	**mg/L**
7440-62-2	**Vanadium**	**0.073**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	5	08/02/2012 18:38	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**809**	**5.00**	**0.28**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/02/2012 23:58	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**527**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**6.75**	**0.50**	**0.041**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2012 12:40	DJH	486267

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5520**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250603	**SWMU183-MW03**	Water	07/24/2012 10:15	07/25/2012 09:55

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/25/2012 12:56	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**1.44**	**1.00**	**0.860**	**mg/L**
14797-65-0	Nitrite	0.590U	5.00	0.590	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	07/25/2012 15:17	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**55.9**	**10.0**	**1.56**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	07/25/2012 18:31	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**907**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2780**	**200**	**79.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250604	**S10-MW01**	Water	07/24/2012 09:00	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 23:00	CGC	486533

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	**1,2-Dichloroethane**	**17.4**	**5.00**	**0.119**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250604	**S10-MW01**	Water	07/24/2012 09:00	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 23:00	CGC	486533

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	**Trichloroethene**	**1.21J**	**5.00**	**0.151**	**ug/L**
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.9	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	49.1	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	50.2	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A Dissolved	1	07/30/2012 16:18	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486263	SW-846 7470A	1	07/30/2012 16:20	AWG	486623

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000075U	0.00020	0.000075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250604	**S10-MW01**	Water	07/24/2012 09:00	07/25/2012 09:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/01/2012 20:34	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.012**	**0.010**	**0.0035**	**mg/L**
7440-39-3	**Barium**	**0.0046J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0014J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	**Cobalt**	**0.00094J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.012**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**586**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**0.23**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0035J**	**0.040**	**0.00084**	**mg/L**
7782-49-2	**Selenium**	**0.0070J**	**0.040**	**0.0038**	**mg/L**
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	**Thallium**	**0.0030J**	**0.020**	**0.0026**	**mg/L**
7440-62-2	**Vanadium**	**0.087**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	10	08/02/2012 18:58	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**3170**	**10.0**	**0.56**	**mg/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 11:50	486261	SW-846 3010A	1	08/02/2012 21:16	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**475**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**22.5**	**0.50**	**0.041**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 19:11	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.024U	0.20	0.024	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	**Arsenic**	**0.0087J**	**0.010**	**0.0035**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250604	**S10-MW01**	Water	07/24/2012 09:00	07/25/2012 09:55

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/01/2012 19:11	CLB	486833

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**0.0043J**	**0.010**	**0.0016**	**mg/L**
7440-41-7	Beryllium	0.000082U	0.0050	0.000082	mg/L
7440-43-9	**Cadmium**	**0.0011J**	**0.0050**	**0.00010**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	**Cobalt**	**0.00067J**	**0.010**	**0.00052**	**mg/L**
7440-50-8	**Copper**	**0.014**	**0.010**	**0.0017**	**mg/L**
7439-89-6	Iron	0.027U	0.10	0.027	mg/L
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L
7439-95-4	**Magnesium**	**541**	**0.10**	**0.012**	**mg/L**
7439-96-5	**Manganese**	**0.21**	**0.015**	**0.00083**	**mg/L**
7440-02-0	**Nickel**	**0.0034J**	**0.040**	**0.00084**	**mg/L**
7782-49-2	Selenium	0.0038U	0.040	0.0038	mg/L
7440-22-4	Silver	0.00064U	0.010	0.00064	mg/L
7440-28-0	**Thallium**	**0.0070J**	**0.020**	**0.0026**	**mg/L**
7440-62-2	**Vanadium**	**0.088**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0059U	0.020	0.0059	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	10	08/02/2012 18:52	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**3110**	**10.0**	**0.56**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2012 13:10	486262	SW-846 3005 Dissolved	1	08/03/2012 00:06	CLB	486881

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**479**	**0.10**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**20.5**	**0.50**	**0.041**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2012 12:40	DJH	486267

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**14600**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250604	**S10-MW01**	Water	07/24/2012 09:00	07/25/2012 09:55

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	07/25/2012 13:13	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**2.81**	**2.00**	**1.72**	**mg/L**
14797-55-8	**Nitrate**	**4.44J**	**10.0**	**1.56**	**mg/L**
14797-65-0	Nitrite	1.18U	10.0	1.18	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	07/25/2012 18:48	JEM	486277

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3860**	**200**	**42.0**	**mg/L**
14808-79-8	**Sulfate**	**6190**	**400**	**158**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250605	**S10-MW06**	Water	07/24/2012 11:15	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 23:20	CGC	486533

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250605	**S10-MW06**	Water	07/24/2012 11:15	07/25/2012 09:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 23:20	CGC	486533

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.1	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.4	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250606	**TRIP BLANK**	Water	07/24/2012 00:00	07/25/2012 09:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 23:40	CGC	486533

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	5.00	0.103	ug/L
71-55-6	1,1,1-Trichloroethane	0.085U	5.00	0.085	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	5.00	0.108	ug/L
79-00-5	1,1,2-Trichloroethane	0.147U	5.00	0.147	ug/L
75-34-3	1,1-Dichloroethane	0.138U	5.00	0.138	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.121U	5.00	0.121	ug/L
96-18-4	1,2,3-Trichloropropane	0.098U	5.00	0.098	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.00	0.156	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.102U	5.00	0.102	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	5.00	0.178	ug/L
106-93-4	1,2-Dibromoethane	0.100U	5.00	0.100	ug/L
95-50-1	1,2-Dichlorobenzene	0.117U	5.00	0.117	ug/L
107-06-2	1,2-Dichloroethane	0.119U	5.00	0.119	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.209U	10.0	0.209	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.075U	5.00	0.075	ug/L
541-73-1	1,3-Dichlorobenzene	0.135U	5.00	0.135	ug/L
142-28-9	1,3-Dichloropropane	0.072U	5.00	0.072	ug/L
106-46-7	1,4-Dichlorobenzene	0.110U	5.00	0.110	ug/L
594-20-7	2,2-Dichloropropane	0.181U	5.00	0.181	ug/L
78-93-3	2-Butanone	0.362U	5.00	0.362	ug/L
95-49-8	2-Chlorotoluene	0.108U	5.00	0.108	ug/L
591-78-6	2-Hexanone	0.093U	5.00	0.093	ug/L
106-43-4	4-Chlorotoluene	0.117U	5.00	0.117	ug/L
99-87-6	4-Isopropyltoluene	0.082U	5.00	0.082	ug/L
108-10-1	4-Methyl-2-pentanone	0.079U	5.00	0.079	ug/L
67-64-1	Acetone	0.399U	5.00	0.399	ug/L
71-43-2	Benzene	0.099U	5.00	0.099	ug/L
108-86-1	Bromobenzene	0.109U	5.00	0.109	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.076U	5.00	0.076	ug/L
75-25-2	Bromoform	0.150U	5.00	0.150	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.146U	5.00	0.146	ug/L
108-90-7	Chlorobenzene	0.089U	5.00	0.089	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.109U	5.00	0.109	ug/L
74-87-3	Chloromethane	0.058U	5.00	0.058	ug/L
124-48-1	Dibromochloromethane	0.076U	5.00	0.076	ug/L
74-95-3	Dibromomethane	0.131U	5.00	0.131	ug/L
75-71-8	Dichlorodifluoromethane	0.154U	5.00	0.154	ug/L
100-41-4	Ethylbenzene	0.119U	5.00	0.119	ug/L
87-68-3	Hexachlorobutadiene	0.211U	5.00	0.211	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.123U	5.00	0.123	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
100-42-5	Styrene	0.098U	5.00	0.098	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207250606	**TRIP BLANK**	Water	07/24/2012 00:00	07/25/2012 09:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/27/2012 23:40	CGC	486533

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.126U	5.00	0.126	ug/L
108-88-3	Toluene	0.127U	5.00	0.127	ug/L
79-01-6	Trichloroethene	0.151U	5.00	0.151	ug/L
75-69-4	Trichlorofluoromethane	0.131U	5.00	0.131	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.137U	5.00	0.137	ug/L
1330-20-7	Xylene (total)	0.384U	15.0	0.384	ug/L
156-59-2	cis-1,2-Dichloroethene	0.134U	5.00	0.134	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.092U	5.00	0.092	ug/L
136777-61-2	m,p-Xylene	0.237U	10.0	0.237	ug/L
104-51-8	n-Butylbenzene	0.152U	5.00	0.152	ug/L
103-65-1	n-Propylbenzene	0.102U	5.00	0.102	ug/L
95-47-6	o-Xylene	0.147U	5.00	0.147	ug/L
135-98-8	sec-Butylbenzene	0.111U	5.00	0.111	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	5.00	0.060	ug/L
98-06-6	tert-Butylbenzene	0.097U	5.00	0.097	ug/L
156-60-5	trans-1,2-Dichloroethene	0.075U	5.00	0.075	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.146U	5.00	0.146	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	5.00	0.312	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.7	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	49.1	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	50.2	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.2	ug/L	100	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 486507		**Client ID**	MB486507			LCS486507			LCSD486507		
Prep Batch N/A		**GCAL ID**	1091113			1091114			1091115		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/27/2012 17:50			07/27/2012 16:49			07/27/2012 17:09		
		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	0.399U		0.399	50.0	47.8	96	59 - 134	53.6	107	11	30
74-97-5	Bromochloromethane	0.127U		0.127	50.0	54.3	109	78 - 112	55.4	111	2	30
75-27-4	Bromodichloromethane	0.076U		0.076	50.0	53.5	107	76 - 116	55.9	112	4	30
75-25-2	Bromoform	0.150U		0.150	50.0	45.4	91	68 - 128	47.9	96	5	30
74-83-9	Bromomethane	0.427U		0.427	50.0	51.1	102	55 - 151	52.8	106	3	30
75-15-0	Carbon disulfide	0.190U		0.190	50.0	57.9	116	67 - 147	58.5	117	1	30
56-23-5	Carbon tetrachloride	0.146U		0.146	50.0	53.0	106	74 - 139	55.4	111	4	30
75-00-3	Chloroethane	0.235U		0.235	50.0	59.4	119	54 - 166	60.1	120	1	30
136777-61-2	m,p-Xylene	0.237U		0.237	100	101	101	83 - 121	103	103	2	30
67-66-3	Chloroform	0.109U		0.109	50.0	54.5	109	85 - 123	56.1	112	3	30
74-87-3	Chloromethane	0.058U		0.058	50.0	66.2	132	55 - 173	69.0	138	4	30
124-48-1	Dibromochloromethane	0.076U		0.076	50.0	50.4	101	74 - 116	53.5	107	6	30
74-95-3	Dibromomethane	0.131U		0.131	50.0	54.0	108	81 - 116	54.6	109	1	30
75-71-8	Dichlorodifluoromethane	0.154U		0.154	50.0	70.8	142	34 - 158	73.3	147	3	30
75-34-3	1,1-Dichloroethane	0.138U		0.138	50.0	54.7	109	82 - 127	56.5	113	3	30
107-06-2	1,2-Dichloroethane	0.119U		0.119	50.0	48.4	97	76 - 122	50.4	101	4	30
156-59-2	cis-1,2-Dichloroethene	0.134U		0.134	50.0	51.7	103	81 - 114	54.4	109	5	30
156-60-5	trans-1,2-Dichloroethene	0.075U		0.075	50.0	54.1	108	82 - 126	55.6	111	3	30
75-09-2	Methylene chloride	0.149U		0.149	50.0	55.2	110	69 - 125	57.5	115	4	30
78-87-5	1,2-Dichloropropane	0.150U		0.150	50.0	55.3	111	81 - 120	58.0	116	5	30
10061-01-5	cis-1,3-Dichloropropene	0.092U		0.092	50.0	52.5	105	83 - 119	55.6	111	6	30
10061-02-6	trans-1,3-Dichloropropene	0.146U		0.146	50.0	51.2	102	87 - 123	53.6	107	5	30
100-41-4	Ethylbenzene	0.119U		0.119	50.0	50.2	100	87 - 118	51.3	103	2	30
591-78-6	2-Hexanone	0.093U		0.093	50.0	42.5	85	58 - 125	46.1	92	8	30
98-82-8	Isopropylbenzene (Cumene)	0.123U		0.123	50.0	50.9	102	87 - 131	50.6	101	0.6	30
78-93-3	2-Butanone	0.362U		0.362	50.0	49.6	99	61 - 127	53.6	107	8	30
74-88-4	Methyl iodide	0.084U		0.084	50.0	53.9	108	72 - 125	55.2	110	2	30
108-10-1	4-Methyl-2-pentanone	0.079U		0.079	50.0	43.9	88	62 - 125	46.7	93	6	30
103-65-1	n-Propylbenzene	0.102U		0.102	50.0	53.9	108	86 - 125	52.9	106	2	30
100-42-5	Styrene	0.098U		0.098	50.0	50.3	101	78 - 118	52.6	105	4	30
127-18-4	Tetrachloroethene	0.126U		0.126	50.0	50.6	101	80 - 131	50.8	102	0.4	30
630-20-6	1,1,1,2-Tetrachloroethane	0.103U		0.103	50.0	50.5	101	81 - 119	52.4	105	4	30
79-34-5	1,1,2,2-Tetrachloroethane	0.108U		0.108	50.0	50.6	101	71 - 120	53.0	106	5	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 486507		**Client ID**	MB486507			LCS486507			LCSD486507		
Prep Batch N/A		**GCAL ID**	1091113			1091114			1091115		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/27/2012 17:50			07/27/2012 16:49			07/27/2012 17:09		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
120-82-1	1,2,4-Trichlorobenzene		0.156U	0.156	50.0	52.6	105	68 - 123	59.6	119	12	30
71-55-6	1,1,1-Trichloroethane		0.085U	0.085	50.0	51.1	102	79 - 133	52.2	104	2	30
79-00-5	1,1,2-Trichloroethane		0.147U	0.147	50.0	50.0	100	80 - 114	53.2	106	6	30
75-69-4	Trichlorofluoromethane		0.131U	0.131	50.0	50.2	100	66 - 156	51.2	102	2	30
96-18-4	1,2,3-Trichloropropane		0.098U	0.098	50.0	48.4	97	77 - 115	51.4	103	6	30
95-63-6	1,2,4-Trimethylbenzene		0.102U	0.102	50.0	52.9	106	82 - 120	52.6	105	0.6	30
108-67-8	1,3,5-Trimethylbenzene		0.075U	0.075	50.0	52.8	106	83 - 123	52.5	105	0.6	30
75-01-4	Vinyl chloride		0.137U	0.137	50.0	59.7	119	57 - 153	61.3	123	3	30
95-47-6	o-Xylene		0.147U	0.147	50.0	49.1	98	83 - 121	51.3	103	4	30
96-12-8	1,2-Dibromo-3-chloropropane		0.178U	0.178	50.0	42.5	85	61 - 118	47.7	95	12	30
106-93-4	1,2-Dibromoethane		0.100U	0.100	50.0	48.0	96	80 - 115	50.4	101	5	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.060U	0.060	50.0	45.9	92	75 - 116	49.1	98	7	30
540-59-0	1,2-Dichloroethene(Total)		0.209U	0.209	100	106	106	74 - 128	110	110	4	30
99-87-6	4-Isopropyltoluene		0.082U	0.082	50.0	52.5	105	83 - 125	52.2	104	0.6	30
1330-20-7	Xylene (total)		0.384U	0.384	150	150	100	74 - 127	155	103	3	30
110-57-6	trans-1,4-Dichloro-2-butene		0.312U	0.312	50.0	41.6	83	51 - 137	40.1	80	4	30
594-20-7	2,2-Dichloropropane		0.181U	0.181	50.0	50.8	102	77 - 138	52.6	105	3	30
76-13-1	Trichlorotrifluoroethane		0.158U	0.158	50.0	56.3	113	74 - 139	57.7	115	2	30
563-58-6	1,1-Dichloropropene		0.121U	0.121	50.0	52.5	105	87 - 127	53.7	107	2	30
142-28-9	1,3-Dichloropropane		0.072U	0.072	50.0	48.1	96	81 - 113	50.3	101	4	30
108-86-1	Bromobenzene		0.109U	0.109	50.0	51.6	103	83 - 115	53.6	107	4	30
95-49-8	2-Chlorotoluene		0.108U	0.108	50.0	51.3	103	81 - 121	52.1	104	2	30
106-43-4	4-Chlorotoluene		0.117U	0.117	50.0	52.1	104	84 - 120	52.9	106	2	30
98-06-6	tert-Butylbenzene		0.097U	0.097	50.0	50.9	102	83 - 126	50.4	101	1	30
135-98-8	sec-Butylbenzene		0.111U	0.111	50.0	54.0	108	86 - 127	53.2	106	1	30
541-73-1	1,3-Dichlorobenzene		0.135U	0.135	50.0	51.6	103	86 - 115	52.1	104	1	30
106-46-7	1,4-Dichlorobenzene		0.110U	0.110	50.0	51.1	102	87 - 113	51.4	103	0.6	30
104-51-8	n-Butylbenzene		0.152U	0.152	50.0	52.8	106	84 - 124	53.2	106	0.8	30
95-50-1	1,2-Dichlorobenzene		0.117U	0.117	50.0	50.3	101	85 - 115	51.8	104	3	30
87-68-3	Hexachlorobutadiene		0.211U	0.211	50.0	49.0	98	71 - 133	62.6	125	24	30
91-20-3	Naphthalene		0.065U	0.065	50.0	47.3	95	59 - 125	56.6	113	18	35
75-35-4	1,1-Dichloroethene		0.208U	0.208	50.0	50.2	100	75 - 133	50.9	102	1	20
71-43-2	Benzene		0.099U	0.099	50.0	55.2	110	83 - 124	56.7	113	3	20

GC/MS Volatiles Quality Control Summary

Analytical Batch 486507		**Client ID**	MB486507			LCS486507			LCSD486507		
Prep Batch N/A		**GCAL ID**	1091113			1091114			1091115		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/27/2012 17:50			07/27/2012 16:49			07/27/2012 17:09		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.151U	0.151	50.0	52.5	105	85 - 124	53.3	107	2	20
108-88-3	Toluene		0.127U	0.127	50.0	50.3	101	86 - 116	52.4	105	4	20
108-90-7	Chlorobenzene		0.089U	0.089	50.0	50.4	101	87 - 115	52.3	105	4	20
Surrogate												
460-00-4	4-Bromofluorobenzene		45.2	90	50	46.7	93	84 - 120	46.9	94		
1868-53-7	Dibromofluoromethane		50.4	101	50	51	102	87 - 116	50.3	101		
2037-26-5	Toluene d8		49.7	99	50	48.4	97	86 - 112	49	98		
17060-07-0	1,2-Dichloroethane-d4		50	100	50	50.7	101	76 - 127	48.5	97		

Analytical Batch 486533		**Client ID**	MB486533			LCS486533			LCSD486533		
Prep Batch N/A		**GCAL ID**	1091189			1091190			1091191		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/27/2012 21:46			07/27/2012 20:46			07/27/2012 21:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.399U	0.399	50.0	42.6	85	59 - 134	44.5	89	4	30
74-97-5	Bromochloromethane		0.127U	0.127	50.0	54.7	109	78 - 112	54.5	109	0.4	30
75-27-4	Bromodichloromethane		0.076U	0.076	50.0	54.9	110	76 - 116	53.8	108	2	30
75-25-2	Bromoform		0.150U	0.150	50.0	52.0	104	68 - 128	52.1	104	0.2	30
74-83-9	Bromomethane		0.427U	0.427	50.0	49.4	99	55 - 151	49.2	98	0.4	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	58.2	116	67 - 147	53.4	107	9	30
56-23-5	Carbon tetrachloride		0.146U	0.146	50.0	58.8	118	74 - 139	54.4	109	8	30
75-00-3	Chloroethane		0.235U	0.235	50.0	53.2	106	54 - 166	52.1	104	2	30
136777-61-2	m,p-Xylene		0.237U	0.237	100	112	112	83 - 121	104	104	7	30
67-66-3	Chloroform		0.109U	0.109	50.0	55.6	111	85 - 123	52.0	104	7	30
74-87-3	Chloromethane		0.058U	0.058	50.0	53.8	108	55 - 173	50.2	100	7	30
124-48-1	Dibromochloromethane		0.076U	0.076	50.0	50.9	102	74 - 116	49.9	100	2	30
74-95-3	Dibromomethane		0.131U	0.131	50.0	53.2	106	81 - 116	52.9	106	0.6	30
75-71-8	Dichlorodifluoromethane		0.154U	0.154	50.0	52.8	106	34 - 158	51.3	103	3	30
75-34-3	1,1-Dichloroethane		0.138U	0.138	50.0	54.5	109	82 - 127	52.5	105	4	30
107-06-2	1,2-Dichloroethane		0.119U	0.119	50.0	52.2	104	76 - 122	52.2	104	0	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 486533	**Client ID**	MB486533	LCS486533	LCSD486533
Prep Batch N/A	**GCAL ID**	1091189	1091190	1091191
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	07/27/2012 21:46	07/27/2012 20:46	07/27/2012 21:06
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
156-59-2	cis-1,2-Dichloroethene	0.134U	0.134	50.0	54.3	109	81 - 114	52.5	105	3	30
156-60-5	trans-1,2-Dichloroethene	0.075U	0.075	50.0	55.4	111	82 - 126	52.0	104	6	30
75-09-2	Methylene chloride	0.149U	0.149	50.0	49.7	99	69 - 125	48.9	98	2	30
78-87-5	1,2-Dichloropropane	0.150U	0.150	50.0	54.4	109	81 - 120	52.7	105	3	30
10061-01-5	cis-1,3-Dichloropropene	0.092U	0.092	50.0	55.4	111	83 - 119	53.1	106	4	30
10061-02-6	trans-1,3-Dichloropropene	0.146U	0.146	50.0	56.4	113	87 - 123	55.5	111	2	30
100-41-4	Ethylbenzene	0.119U	0.119	50.0	55.5	111	87 - 118	51.5	103	7	30
591-78-6	2-Hexanone	0.093U	0.093	50.0	48.5	97	58 - 125	50.5	101	4	30
98-82-8	Isopropylbenzene (Cumene)	0.123U	0.123	50.0	58.5	117	87 - 131	53.6	107	9	30
78-93-3	2-Butanone	0.362U	0.362	50.0	46.6	93	61 - 127	49.6	99	6	30
74-88-4	Methyl iodide	0.084U	0.084	50.0	53.7	107	72 - 125	52.0	104	3	30
108-10-1	4-Methyl-2-pentanone	0.079U	0.079	50.0	51.7	103	62 - 125	53.8	108	4	30
103-65-1	n-Propylbenzene	0.102U	0.102	50.0	59.4	119	86 - 125	53.6	107	10	30
100-42-5	Styrene	0.098U	0.098	50.0	56.6	113	78 - 118	53.5	107	6	30
127-18-4	Tetrachloroethene	0.126U	0.126	50.0	54.4	109	80 - 131	51.4	103	6	30
630-20-6	1,1,1,2-Tetrachloroethane	0.103U	0.103	50.0	54.9	110	81 - 119	52.8	106	4	30
79-34-5	1,1,2,2-Tetrachloroethane	0.108U	0.108	50.0	52.4	105	71 - 120	52.3	105	0.2	30
120-82-1	1,2,4-Trichlorobenzene	0.156U	0.156	50.0	58.7	117	68 - 123	52.7	105	11	30
71-55-6	1,1,1-Trichloroethane	0.085U	0.085	50.0	56.7	113	79 - 133	53.9	108	5	30
79-00-5	1,1,2-Trichloroethane	0.147U	0.147	50.0	52.6	105	80 - 114	52.0	104	1	30
75-69-4	Trichlorofluoromethane	0.131U	0.131	50.0	52.9	106	66 - 156	50.1	100	5	30
96-18-4	1,2,3-Trichloropropane	0.098U	0.098	50.0	51.6	103	77 - 115	51.0	102	1	30
95-63-6	1,2,4-Trimethylbenzene	0.102U	0.102	50.0	58.6	117	82 - 120	53.1	106	10	30
108-67-8	1,3,5-Trimethylbenzene	0.075U	0.075	50.0	59.2	118	83 - 123	53.8	108	10	30
75-01-4	Vinyl chloride	0.137U	0.137	50.0	56.2	112	57 - 153	53.0	106	6	30
95-47-6	o-Xylene	0.147U	0.147	50.0	56.0	112	83 - 121	50.9	102	10	30
96-12-8	1,2-Dibromo-3-chloropropane	0.178U	0.178	50.0	50.5	101	61 - 118	53.6	107	6	30
106-93-4	1,2-Dibromoethane	0.100U	0.100	50.0	53.4	107	80 - 115	53.7	107	0.6	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	0.060	50.0	51.9	104	75 - 116	52.0	104	0.2	30
540-59-0	1,2-Dichloroethene(Total)	0.209U	0.209	100	110	110	74 - 128	104	104	6	30
99-87-6	4-Isopropyltoluene	0.082U	0.082	50.0	61.7	123	83 - 125	55.0	110	11	30
1330-20-7	Xylene (total)	0.384U	0.384	150	168	112	74 - 127	155	103	8	30
110-57-6	trans-1,4-Dichloro-2-butene	0.312U	0.312	50.0	47.6	95	51 - 137	47.2	94	0.8	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	486533	**Client ID**	MB486533			LCS486533			LCSD486533		
Prep Batch	N/A	**GCAL ID**	1091189			1091190			1091191		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/27/2012 21:46			07/27/2012 20:46			07/27/2012 21:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
594-20-7	2,2-Dichloropropane		0.181U	0.181	50.0	50.2	100	77 - 138	49.2	98	2	30
76-13-1	Trichlorotrifluoroethane		0.158U	0.158	50.0	56.2	112	74 - 139	53.1	106	6	30
563-58-6	1,1-Dichloropropene		0.121U	0.121	50.0	57.5	115	87 - 127	54.1	108	6	30
142-28-9	1,3-Dichloropropane		0.072U	0.072	50.0	52.1	104	81 - 113	51.8	104	0.6	30
108-86-1	Bromobenzene		0.109U	0.109	50.0	53.9	108	83 - 115	51.1	102	5	30
95-49-8	2-Chlorotoluene		0.108U	0.108	50.0	57.7	115	81 - 121	52.9	106	9	30
106-43-4	4-Chlorotoluene		0.117U	0.117	50.0	57.1	114	84 - 120	52.5	105	8	30
98-06-6	tert-Butylbenzene		0.097U	0.097	50.0	60.4	121	83 - 126	54.4	109	10	30
135-98-8	sec-Butylbenzene		0.111U	0.111	50.0	61.4	123	86 - 127	54.1	108	13	30
541-73-1	1,3-Dichlorobenzene		0.135U	0.135	50.0	55.8	112	86 - 115	51.1	102	9	30
106-46-7	1,4-Dichlorobenzene		0.110U	0.110	50.0	54.9	110	87 - 113	50.5	101	8	30
104-51-8	n-Butylbenzene		0.152U	0.152	50.0	64.6	**129***	84 - 124	56.3	113	14	30
95-50-1	1,2-Dichlorobenzene		0.117U	0.117	50.0	55.1	110	85 - 115	50.5	101	9	30
87-68-3	Hexachlorobutadiene		0.211U	0.211	50.0	65.9	132	71 - 133	55.8	112	17	30
91-20-3	Naphthalene		1.04J	0.065	50.0	54.5	109	59 - 125	51.9	104	5	35
75-35-4	1,1-Dichloroethene		0.208U	0.208	50.0	55.7	111	75 - 133	52.7	105	6	20
71-43-2	Benzene		0.099U	0.099	50.0	54.7	109	83 - 124	52.6	105	4	20
79-01-6	Trichloroethene		0.151U	0.151	50.0	53.3	107	85 - 124	52.2	104	2	20
108-88-3	Toluene		0.127U	0.127	50.0	52.6	105	86 - 116	50.8	102	3	20
108-90-7	Chlorobenzene		0.089U	0.089	50.0	53.2	106	87 - 115	50.4	101	5	20
Surrogate												
460-00-4	4-Bromofluorobenzene		48.2	96	50	49.6	99	84 - 120	49	98		
1868-53-7	Dibromofluoromethane		49.8	100	50	50.1	100	87 - 116	50.2	100		
2037-26-5	Toluene d8		50.3	101	50	49.5	99	86 - 112	49.5	99		
17060-07-0	1,2-Dichloroethane-d4		50.3	101	50	49.3	99	76 - 127	49.6	99		

Inorganics Quality Control Summary

Analytical Batch	486623	**Client ID**	MB486263	LCS486263
Prep Batch	486263	**GCAL ID**	1089805	1089806
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	07/30/2012 15:35	07/30/2012 15:36
		Matrix	Water	Water

SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000075U	0.000075	0.00500	0.00455	91	80 - 120

Analytical Batch	486623	**Client ID**	MW-08-02	1089793MS	1089793MSD
Prep Batch	486263	**GCAL ID**	21207250301	1089808	1089832
Prep Method	SW-846 7470A	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	07/25/2012 11:50	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	07/30/2012 15:47	07/30/2012 15:39	07/30/2012 15:41
		Matrix	Water	Water	Water

SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.000075	0.00500	0.00426	85	75 - 125	0.00421	84	1	20

Inorganics Quality Control Summary

Analytical Batch	486833	**Client ID**	MB486261	LCS486261
Prep Batch	486261	**GCAL ID**	1089797	1089798
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	08/01/2012 15:52	08/01/2012 16:00
		Matrix	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.040J	0.024	5.00	5.19	104	80 - 120
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.51	103	80 - 120
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.54	108	80 - 120
7440-39-3	Barium	0.0025J	0.0016	0.50	0.52	104	80 - 120
7440-41-7	Beryllium	0.000082U	0.000082	0.50	0.51	102	80 - 120
7440-43-9	Cadmium	0.00010U	0.00010	0.50	0.52	104	80 - 120
7440-70-2	Calcium	0.035J	0.024	5.00	5.10	102	80 - 120
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.50	101	80 - 120
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.52	104	80 - 120
7440-50-8	Copper	0.0017U	0.0017	0.50	0.50	100	80 - 120
7439-89-6	Iron	0.027U	0.027	5.00	5.13	103	80 - 120
7439-92-1	Lead	0.0028U	0.0028	0.50	0.53	106	80 - 120
7439-95-4	Magnesium	0.012U	0.012	5.00	5.26	105	80 - 120
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.50	99	80 - 120
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.53	106	80 - 120
7440-09-7	Potassium	0.041U	0.041	10.0	10.2	102	80 - 120
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.53	106	80 - 120
7440-22-4	Silver	0.00064U	0.00064	0.50	0.50	100	80 - 120
7440-23-5	Sodium	0.056U	0.056	20.0	20.3	101	80 - 120
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.53	106	80 - 120
7440-62-2	Vanadium	0.0033J	0.0012	0.50	0.51	101	80 - 120
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.51	103	80 - 120

Inorganics Quality Control Summary

Analytical Batch	486833	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486261	**GCAL ID**	21207250302	1089800	1089830
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	07/25/2012 11:50	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	08/01/2012 17:07	08/01/2012 17:14	08/01/2012 17:20
		Matrix	Water	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.034	0.024	5.00	4.69	93	75 - 125	4.79	95	2	20
7440-36-0	Antimony	0.0	0.0040	0.50	0.53	106	75 - 125	0.54	107	1	20
7440-38-2	Arsenic	0.013	0.0035	0.50	0.57	112	75 - 125	0.58	113	0.5	20
7440-39-3	Barium	0.0028	0.0016	0.50	0.48	95	75 - 125	0.48	96	1	20
7440-41-7	Beryllium	0.0	0.000082	0.50	0.48	95	75 - 125	0.48	97	1	20
7440-43-9	Cadmium	0.0012	0.00010	0.50	0.47	93	75 - 125	0.47	94	1	20
7440-47-3	Chromium	0.0	0.00034	0.50	0.45	90	75 - 125	0.46	92	1	20
7440-48-4	Cobalt	0.0	0.00052	0.50	0.47	93	75 - 125	0.47	93	0.08	20
7440-50-8	Copper	0.0043	0.0017	0.50	0.51	102	75 - 125	0.52	103	2	20
7439-89-6	Iron	0.0	0.027	5.00	4.64	93	75 - 125	4.62	92	0.3	20
7439-92-1	Lead	0.0	0.0028	0.50	0.46	93	75 - 125	0.47	94	1	20
7439-95-4	Magnesium	766	0.012	5.00	760	**-100***	75 - 125	782	**304***	3	20
7439-96-5	Manganese	0.0	0.00083	0.50	0.48	97	75 - 125	0.48	97	0.2	20
7440-02-0	Nickel	0.0	0.00084	0.50	0.46	91	75 - 125	0.45	91	0.5	20
7782-49-2	Selenium	0.014	0.0038	0.50	0.57	112	75 - 125	0.57	111	0.4	20
7440-22-4	Silver	0.0	0.00064	0.50	0.53	105	75 - 125	0.53	107	1	20
7440-28-0	Thallium	0.0033	0.0026	0.50	0.47	93	75 - 125	0.46	92	1	20
7440-62-2	Vanadium	0.060	0.0012	0.50	0.55	98	75 - 125	0.56	100	1	20
7440-66-6	Zinc	0.0	0.0059	0.50	0.50	101	75 - 125	0.51	102	1	20

Analytical Batch	486881	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486261	**GCAL ID**	21207250302	1089800	1089830
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	07/25/2012 11:50	07/25/2012 11:50	07/25/2012 11:50
		Analytical Date	08/02/2012 17:16	08/02/2012 17:23	08/02/2012 17:30
		Matrix	Water	Water	Water

SW-846 6010B		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-70-2	Calcium	623	0.24	5.00	617	**-100***	75 - 125	636	**268***	3	20
7440-09-7	Potassium	19.3	0.41	10.0	29.0	97	75 - 125	29.7	104	3	20
7440-23-5	Sodium	3090	0.56	20.0	3160	**374***	75 - 125	3260	**874***	3	20

Inorganics Quality Control Summary

Analytical Batch	486562	**Client ID**	MB486262	LCS486262
Prep Batch	486262	**GCAL ID**	1089801	1089802
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	07/25/2012 13:10	07/25/2012 13:10
		Analytical Date	07/29/2012 16:47	07/29/2012 16:54
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.046J	0.024	5.00	4.61	92	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.48	95	88 - 108
7440-38-2	Arsenic	0.0035U	0.0035	0.50	0.48	96	88 - 109
7440-39-3	Barium	0.0016U	0.0016	0.50	0.49	97	92 - 112
7440-41-7	Beryllium	0.00018J	0.000082	0.50	0.49	98	89 - 113
7440-43-9	Cadmium	0.00027J	0.00010	0.50	0.48	97	88 - 111
7440-70-2	Calcium	0.15	0.024	5.00	4.55	91	90 - 111
7440-47-3	Chromium	0.0012J	0.00034	0.50	0.49	98	90 - 113
7440-48-4	Cobalt	0.00052U	0.00052	0.50	0.49	98	89 - 111
7440-50-8	Copper	0.0017U	0.0017	0.50	0.48	96	86 - 112
7439-89-6	Iron	0.027U	0.027	5.00	4.57	91	89 - 116
7439-92-1	Lead	0.0028U	0.0028	0.50	0.48	95	89 - 109
7439-95-4	Magnesium	0.012U	0.012	5.00	4.71	94	92 - 113
7439-96-5	Manganese	0.00083U	0.00083	0.50	0.47	95	90 - 110
7440-02-0	Nickel	0.00084U	0.00084	0.50	0.49	99	89 - 111
7440-09-7	Potassium	0.083J	0.041	10.0	9.83	98	89 - 114
7782-49-2	Selenium	0.0038U	0.0038	0.50	0.47	95	90 - 110
7440-22-4	Silver	0.00064U	0.00064	0.50	0.49	98	86 - 120
7440-23-5	Sodium	0.73J	0.056	20.0	21.6	108	90 - 117
7440-28-0	Thallium	0.0026U	0.0026	0.50	0.48	96	88 - 108
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.49	97	91 - 111
7440-66-6	Zinc	0.0059U	0.0059	0.50	0.49	97	84 - 111

Inorganics Quality Control Summary

Analytical Batch	486562	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486262	**GCAL ID**	21207250302	1089804	1089831
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/25/2012 13:10	07/25/2012 13:10	07/25/2012 13:10
		Analytical Date	07/29/2012 17:00	07/29/2012 17:08	07/29/2012 17:14
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**			**Control**				**RPD**
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**Limit**
7440-38-2	Arsenic	0.022	0.0035	0.50	0.54	104	84 - 124	0.56	107	3	25
7440-39-3	Barium	0.0	0.0016	0.50	0.47	93	85 - 120	0.47	94	1	25
7440-41-7	Beryllium	0.0012	0.000082	0.50	0.48	96	79 - 121	0.49	97	2	25
7440-43-9	Cadmium	0.0028	0.00010	0.50	0.44	88	82 - 119	0.45	89	1	25
7440-70-2	Calcium	569	0.024	5.00	527	**-800***	48 - 153	509	**-1000***	3	25
7440-48-4	Cobalt	0.00052	0.00052	0.50	0.44	89	82 - 119	0.45	90	1	25
7439-92-1	Lead	0.0	0.0028	0.50	0.42	84	62 - 146	0.43	86	2	25
7439-95-4	Magnesium	691	0.012	5.00	641	**-1000***	62 - 146	622	**-1000***	3	25
7439-96-5	Manganese	0.0	0.00083	0.50	0.46	92	79 - 121	0.47	93	1	25
7440-02-0	Nickel	0.0018	0.00084	0.50	0.44	87	84 - 120	0.45	89	2	25
7440-09-7	Potassium	21.2	0.041	10.0	30.1	89	76 - 132	32.5	114	8	25
7440-22-4	Silver	0.0	0.00064	0.50	0.52	104	75 - 141	0.53	106	3	25
7440-28-0	Thallium	0.0095	0.0026	0.50	0.42	**82***	90 - 116	0.43	**84***	3	25
7440-62-2	Vanadium	0.033	0.0012	0.50	0.53	100	85 - 120	0.54	102	3	25
7440-66-6	Zinc	0.014	0.0059	0.50	0.50	98	60 - 137	0.51	100	2	25

Analytical Batch	486711	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486262	**GCAL ID**	21207250302	1089804	1089831
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/25/2012 13:10	07/25/2012 13:10	07/25/2012 13:10
		Analytical Date	07/31/2012 16:18	07/31/2012 15:51	07/31/2012 15:58
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**			**Control**				**RPD**
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**Limit**
7440-23-5	Sodium	2900	0.56	20.0	2860	**-200***	70 - 203	2750	**-800***	4	25

Inorganics Quality Control Summary

Analytical Batch	486833	**Client ID**	MW-08-03	1089794MS	1089794MSD
Prep Batch	486262	**GCAL ID**	21207250302	1089804	1089831
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/25/2012 13:10	07/25/2012 13:10	07/25/2012 13:10
		Analytical Date	08/01/2012 13:57	08/01/2012 14:04	08/01/2012 14:10
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.035	0.024	5.00	4.83	96	83 - 119	4.86	97	0.7	25
7440-36-0	Antimony	0.0	0.0040	0.50	0.54	108	81 - 124	0.56	112	4	25
7439-89-6	Iron	0.0	0.027	5.00	4.71	94	52 - 155	4.82	96	2	25
7782-49-2	Selenium	0.015	0.0038	0.50	0.59	115	71 - 140	0.60	118	3	25
7440-47-3	Chromium	0.0	0.00034	0.50	0.46	92	73 - 135	0.47	94	2	25
7440-50-8	Copper	0.0024	0.0017	0.50	0.52	104	82 - 129	0.53	105	2	25

General Chemistry Quality Control Summary

Analytical Batch 486267	**Client ID**	MB486267			LCS486267		
Prep Batch N/A	**GCAL ID**	1089842			1089843		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/25/2012 12:40			07/25/2012 12:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	7.00U	7.00	1000	931	93.1	90 - 110

Analytical Batch 486267	**Client ID**	MW-08-03		1089794DUP		
Prep Batch N/A	**GCAL ID**	21207250302		1089844		
	Sample Type	SAMPLE		DUP		
	Analytical Date	07/25/2012 12:40		07/25/2012 12:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	13210	7.00	13500	2.1	5

General Chemistry Quality Control Summary

Analytical Batch 486277		**Client ID**	MB486277			LCS486277			LCSD486277		
Prep Batch N/A		**GCAL ID**	1089883			1089884			1089885		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/24/2012 19:30			07/24/2012 19:47			07/24/2012 20:05		
		Matrix	Water			Water			Water		
EPA 300.0 Inorganic Anions		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
16887-00-6	Chloride		0.021U	0.021	2.50	2.50	100	80 - 120	2.48	99.3	0.72	25
14797-55-8	Nitrate		0.078U	0.078	2.50	2.46	98.3	80 - 120	2.43	97.2	1.1	25
16984-48-8	Fluoride		0.086U	0.086	2.50	2.38	95.2	80 - 120	2.36	94.6	0.67	25
14797-65-0	Nitrite		0.059U	0.059	2.50	2.46	98.4	80 - 120	2.43	97.3	1.1	25
14808-79-8	Sulfate		0.079U	0.079	5.00	4.97	99.4	80 - 120	4.94	98.8	0.59	25

Analytical Batch 486277		**Client ID**	MW-08-08			1089825MS		
Prep Batch N/A		**GCAL ID**	21207250602			1089886		
		Sample Type	SAMPLE			MS		
		Analytical Date	07/25/2012 19:24			07/25/2012 19:41		
		Matrix	Water			Water		
EPA 300.0 Inorganic Anions		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
16887-00-6	Chloride		12400	105	12500	25600	105	75 - 125
14808-79-8	Sulfate		8070	395	12500	20200	96.9	75 - 125

Analytical Batch 486277		**Client ID**	MW-08-08			1089825MS			1089825MSD		
Prep Batch N/A		**GCAL ID**	21207250602			1089886			1089887		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/25/2012 13:49			07/25/2012 15:34			07/25/2012 15:52		
		Matrix	Water			Water			Water		
EPA 300.0 Inorganic Anions		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
14797-55-8	Nitrate		25.8	3.90	125	149	98.6	75 - 125	149	98.8	0.15	25

General Chemistry Quality Control Summary

Analytical Batch 486587	**Client ID**	MB486587			LCS486587		
Prep Batch N/A	**GCAL ID**	1091376			1091377		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/30/2012 10:24			07/30/2012 10:41		
	Matrix	Water			Water		
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6 Chloride		0.021U	0.021	2.50	2.57	103	80 - 120

Analytical Batch 486587	**Client ID**	MW-7			1090920MS			1090920MSD			
Prep Batch N/A	**GCAL ID**	21207271901			1091378			1091379			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	07/30/2012 22:09			07/30/2012 22:26			07/30/2012 22:44			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6 Chloride		24.4	0.420	50.0	78.6	108	75 - 125	78.1	107	0.66	25

Analytical Batch 486587	**Client ID**	003			1091104MS			1091104MSD			
Prep Batch N/A	**GCAL ID**	21207275001			1091380			1091381			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	07/30/2012 23:19			07/30/2012 23:37			07/30/2012 23:55			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6 Chloride		512	10.5	1250	1820	104	75 - 125	1800	103	1	25

NATIONVIEW | 4771 | 2120725006 | 8/03/12

Page: 1 of 1

NV Project No: 10-0004

COC Number(1): 07242012-03

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q3)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Fluoride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	TAL Metals [Total] (6010B/7470A)	TDS (SM19 2540C)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
MW-08-05	MW-08-05	7/24/2012	0950	-	N	1	WG	7	X	X	X	X	X							3	1
MW-08-08	MW-08-08	7/24/2012	0850	-	N	1	WG	7	X	X	X	X	X							3	2
SWMU183-MW03	SWMU183-MW03	7/24/2012	1015	-	N	1	WG	7	X	X	X	X	X							3	3
SIO-MW01	SIO-MW01	7/24/2012	0900		N	1	WG	7	X	X	X	X	X							3	4
SIO-MW06	SIO-MW06	7/24/2012	1115		N	1	WG	3	X											3	5
Trip Blank				-			WQ	3	X										Z111020	3	6
				-																	
				-																	
				-																	
				-																	
				-																	

COMMENTS: **Dissolved TAL Metals filtered in the field**

2.1

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Jeff Moore	7/24/12	1400	1. FedEx		
2. FedEx	7/25/12		2. [signature]	7/25/12	855
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: Fed Ex

Airbill Number: 7986 5344 5954

Analytical Lab: GCAL

Delivery Location: Baton Rogue, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

SDG
212072506

PROJECT

Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile 204817 - Holloman AFB	**Received By** Pfeifer, Ben J.
Line Item(s) 3 - SD-08	**Receive Date(s)** 07/25/12

CHECKLIST

	Yes	No	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☑	☐	☐
Was preservative added to any container at the lab?	☐	☑	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☑	☐	☐
Do all sample labels match the Chain of Custody?	☑	☐	☐
Did the Chain of Custody list the sampling technician?	☑	☐	☐

COOLERS

Airbill	Temp(oC)
7986 5344 5954	2.1

DISCREPANCIES

None

LABORATORY PRESERVATIONS

None

NOTES

212072506

D-5

LTM Quarter 4 (Oct 2012, NationView)

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 11/08/2012

GCAL Report 212102413

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB

CASE NARRATIVE

Client: NationView LLC **Report:** 212102413

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 493526, the MS/MSD exhibited recovery failures. The LCS and/or LCSD recoveries are above the upper control limit for Bromochloromethane and Dibromochloromethane. These analytes were not detected in the associated samples.

METALS

In the SW-846 6010B analysis, several samples had to be diluted in order to bracket the concentration of Sodium within the linear dynamic range of the instrument.

In the SW-846 6010B analysis, a chemical or physical interference necessitated a dilution for sample 21210241301 (MW-08-08). This is reflected in the elevated reporting limits.

In the SW-846 6010B Dissolved analysis for prep batch 493010, the MS and/or MSD recovery is outside the control limits for Cobalt, Nickel, Potassium, Thallium, and Cadmium. 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 81% for Cobalt, 78% for Nickel, 153% for Potassium, 76% for Thallium and 82% for Cadmium. The MS/MSD recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. The MS/MSD recoveries are not applicable for Sodium because the sample concentration is greater than four times the spike concentration.

In the SW-846 7470A analysis for prep batch 493011, 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.

CONVENTIONALS

In the EPA 300.0 analysis, all samples had to be diluted in order to bracket the concentration of target analytes within the calibration range of the instrument and/or to eliminate background interference. This is reflected in the elevated detection limits.

In the EPA 300.0 analysis, samples 21210241303 (MW-08-03), 21210241305 (MW-08-06), 21210241306 (MW-08-06-MS), and 21210241307 (MW-08-06-MSD) were analyzed outside the 48-hour holding time for Nitrite. The samples were originally analyzed within the holding time but required re-analysis due to matrix interference.

In the EPA 300.0 analysis, sample 21210241301 (MW-08-08) was analyzed outside the 48-hour holding time for Nitrite and Nitrate. The samples were analyzed as soon as possible after receipt.

In the EPA 300.0 analysis for analytical batch 493727, the MS/MSD recoveries are outside control limits for Fluoride. The LCS recovery is acceptable. This indicates the analysis is in control and the sample is affected

by matrix interference.

In the SM 2540 C analysis, sample 21210241301 (MW-08-08) had to be diluted prior to filtration in order not to exceed the maximum residue allowed by the method.

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
Technical Director
GCAL REPORT 212102413

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241301	MW-08-08	Water	10/22/2012 16:30	10/24/2012 10:00
21210241302	MW-08-02	Water	10/23/2012 10:20	10/24/2012 10:00
21210241303	MW-08-03	Water	10/23/2012 08:40	10/24/2012 10:00
21210241304	TRIP BLANK #1	Water	10/22/2012 00:00	10/24/2012 10:00
21210241305	MW-08-06	Water	10/23/2012 09:40	10/24/2012 10:00
21210241306	MW-08-06-MS	Water	10/23/2012 09:40	10/24/2012 10:00
21210241307	MW-08-06-MSD	Water	10/23/2012 09:40	10/24/2012 10:00
21210241308	TRIP BLANK #2	Water	10/23/2012 00:00	10/24/2012 10:00
21210241309	S10-MW06	Water	10/23/2012 08:45	10/24/2012 10:00
21210241310	MW-08-04	Water	10/23/2012 11:10	10/24/2012 10:00
21210241311	TRIP BLANK #3	Water	10/23/2012 00:00	10/24/2012 10:00

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241301	**MW-08-08**	Water	10/22/2012 16:30	10/24/2012 10:00

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.028J	0.30	0.016	mg/L
7440-38-2	Arsenic	0.045J	0.050	0.018	mg/L
7440-70-2	Calcium	708	0.50	0.23	mg/L
7440-47-3	Chromium	0.029J	0.050	0.0013	mg/L
7440-50-8	Copper	0.0079J	0.050	0.0050	mg/L
7439-95-4	Magnesium	1620	0.50	0.082	mg/L
7439-96-5	Manganese	0.041J	0.075	0.0066	mg/L
7440-09-7	Potassium	53.5	2.50	0.017	mg/L
7440-22-4	Silver	0.018J	0.050	0.0035	mg/L
7440-62-2	Vanadium	0.11	0.10	0.0062	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	7230	25.0	1.53	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	31800	100	70.0	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	24.4J	25.0	5.75	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.23J	5.00	0.193	ug/L
74-87-3	Chloromethane	1.90J	5.00	0.144	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	12300	500	315	mg/L
14808-79-8	Sulfate	7540	1000	575	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241302	**MW-08-02**	Water	10/23/2012 10:20	10/24/2012 10:00

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.040	0.010	0.0036	mg/L
7440-39-3	Barium	0.011	0.010	0.00071	mg/L
7440-41-7	Beryllium	0.00071J	0.0050	0.00010	mg/L
7440-70-2	Calcium	569	0.10	0.046	mg/L
7440-47-3	Chromium	0.0074J	0.010	0.00026	mg/L
7440-48-4	Cobalt	0.0035J	0.010	0.00058	mg/L
7439-95-4	Magnesium	151	0.10	0.016	mg/L
7439-96-5	Manganese	1.15	0.015	0.0013	mg/L
7440-09-7	Potassium	4.32	0.50	0.0035	mg/L
7440-28-0	Thallium	0.0044J	0.020	0.0030	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.92	0.10	0.013	mg/L
7440-23-5	Sodium	116	1.00	0.061	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3430	10.0	7.00	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	14.5	5.00	0.116	ug/L
67-64-1	Acetone	1.56J	5.00	0.193	ug/L
74-87-3	Chloromethane	2.41J	5.00	0.144	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	101	30.0	18.9	mg/L
14808-79-8	Sulfate	1890	60.0	34.5	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	3.53	0.500	0.090	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241303	**MW-08-03**	Water	10/23/2012 08:40	10/24/2012 10:00

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.13J	0.20	0.030	mg/L
7440-36-0	Antimony	0.0041J	0.060	0.0031	mg/L
7440-38-2	Arsenic	0.019	0.010	0.0036	mg/L
7440-39-3	Barium	0.0044J	0.010	0.00071	mg/L
7440-41-7	Beryllium	0.00026J	0.0050	0.00010	mg/L
7440-70-2	Calcium	548	0.10	0.046	mg/L
7440-47-3	Chromium	0.019	0.010	0.00026	mg/L
7440-48-4	Cobalt	0.00060J	0.010	0.00058	mg/L
7440-50-8	Copper	0.0016J	0.010	0.0010	mg/L
7439-95-4	Magnesium	680	0.10	0.016	mg/L
7440-09-7	Potassium	29.1	0.50	0.0035	mg/L
7440-62-2	Vanadium	0.035	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2820	10.0	0.61	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	13400	10.0	7.00	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	12.3	2.50	0.575	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.36J	5.00	0.193	ug/L
67-66-3	Chloroform	0.578J	5.00	0.155	ug/L
74-87-3	Chloromethane	2.28J	5.00	0.144	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	5180	5.00	3.15	mg/L
16984-48-8	Fluoride	3.11J	5.00	0.900	mg/L
14808-79-8	Sulfate	5970	10.0	5.75	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241304	**TRIP BLANK #1**	Water	10/22/2012 00:00	10/24/2012 10:00

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.98J	5.00	0.193	ug/L
74-87-3	Chloromethane	1.93J	5.00	0.144	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241305	**MW-08-06**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.0095J	0.060	0.0031	mg/L
7440-38-2	Arsenic	0.013	0.010	0.0036	mg/L
7440-39-3	Barium	0.0061J	0.010	0.00071	mg/L
7440-41-7	Beryllium	0.00027J	0.0050	0.00010	mg/L
7440-70-2	Calcium	479	0.10	0.046	mg/L
7440-47-3	Chromium	0.021	0.010	0.00026	mg/L
7440-48-4	Cobalt	0.00069J	0.010	0.00058	mg/L
7440-50-8	Copper	0.0050J	0.010	0.0010	mg/L
7439-95-4	Magnesium	753	0.10	0.016	mg/L
7440-09-7	Potassium	31.9	0.50	0.0035	mg/L
7440-28-0	Thallium	0.0037J	0.020	0.0030	mg/L
7440-62-2	Vanadium	0.037	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4220	10.0	0.61	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	19800	10.0	7.00	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	15.2	5.00	1.15	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.47J	5.00	0.193	ug/L
67-66-3	Chloroform	0.621J	5.00	0.155	ug/L
74-87-3	Chloromethane	2.61J	5.00	0.144	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241305	**MW-08-06**	Water	10/23/2012 09:40	10/24/2012 10:00

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	0.465J	1.00	0.180	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	5860	500	315	mg/L
14808-79-8	Sulfate	7070	1000	575	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241306	**MW-08-06-MS**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 7470A Water

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00354	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.76	0.20	0.030	mg/L
7440-36-0	Antimony	0.51	0.060	0.0031	mg/L
7440-38-2	Arsenic	0.55	0.010	0.0036	mg/L
7440-39-3	Barium	0.45	0.010	0.00071	mg/L
7440-41-7	Beryllium	0.43	0.0050	0.00010	mg/L
7440-43-9	Cadmium	0.41	0.0050	0.00016	mg/L
7440-70-2	Calcium	494	0.10	0.046	mg/L
7440-47-3	Chromium	0.45	0.010	0.00026	mg/L
7440-48-4	Cobalt	0.41	0.010	0.00058	mg/L
7440-50-8	Copper	0.49	0.010	0.0010	mg/L
7439-92-1	Lead	0.40	0.015	0.0020	mg/L
7439-95-4	Magnesium	771	0.10	0.016	mg/L
7439-96-5	Manganese	0.43	0.015	0.0013	mg/L
7440-02-0	Nickel	0.39	0.040	0.0011	mg/L
7440-09-7	Potassium	48.6	0.50	0.0035	mg/L
7782-49-2	Selenium	0.54	0.040	0.0044	mg/L
7440-22-4	Silver	0.53	0.010	0.00070	mg/L
7440-28-0	Thallium	0.39	0.020	0.0030	mg/L
7440-62-2	Vanadium	0.51	0.020	0.0012	mg/L
7440-66-6	Zinc	0.49	0.020	0.0045	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	4.60	0.10	0.013	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241306	**MW-08-06-MS**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4300	10.0	0.61	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	16.4	1.00	0.180	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	41.0	5.00	1.15	mg/L

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	53.3	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	51.5	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	57.7	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	52.8	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	52.6	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	47.8	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	52.2	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	58.6	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	49.0	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	47.1	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	62.3	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	55.0	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	49.0	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	50.9	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	104	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	51.0	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	48.5	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	47.8	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	52.2	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	47.0	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	51.9	5.00	0.170	ug/L
78-93-3	2-Butanone	52.6	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	48.5	5.00	0.080	ug/L
591-78-6	2-Hexanone	59.4	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	48.0	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	48.4	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	63.1	5.00	0.120	ug/L
67-64-1	Acetone	36.0	5.00	0.193	ug/L
71-43-2	Benzene	50.0	5.00	0.111	ug/L
108-86-1	Bromobenzene	47.8	5.00	0.145	ug/L
74-97-5	Bromochloromethane	52.0	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	53.4	5.00	0.083	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241306	**MW-08-06-MS**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
75-25-2	Bromoform	54.6	5.00	0.215	ug/L
74-83-9	Bromomethane	36.9	5.00	0.427	ug/L
75-15-0	Carbon disulfide	48.8	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	51.1	5.00	0.248	ug/L
108-90-7	Chlorobenzene	50.3	5.00	0.083	ug/L
75-00-3	Chloroethane	47.6	5.00	0.235	ug/L
67-66-3	Chloroform	50.9	5.00	0.155	ug/L
74-87-3	Chloromethane	45.2	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	54.0	5.00	0.054	ug/L
74-95-3	Dibromomethane	51.6	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	48.0	5.00	0.145	ug/L
100-41-4	Ethylbenzene	50.9	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	49.6	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	50.3	5.00	0.130	ug/L
74-88-4	Methyl iodide	48.0	5.00	0.084	ug/L
75-09-2	Methylene chloride	46.0	5.00	0.149	ug/L
91-20-3	Naphthalene	51.8	5.00	0.176	ug/L
100-42-5	Styrene	51.3	5.00	0.089	ug/L
127-18-4	Tetrachloroethene	50.2	5.00	0.193	ug/L
108-88-3	Toluene	48.4	5.00	0.122	ug/L
79-01-6	Trichloroethene	50.8	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	51.1	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	48.7	5.00	0.158	ug/L
75-01-4	Vinyl chloride	49.8	5.00	0.127	ug/L
1330-20-7	Xylene (total)	149	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	52.3	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	54.1	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	98.5	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	49.4	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	48.1	5.00	0.727	ug/L
95-47-6	o-Xylene	50.8	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	48.8	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	51.8	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	49.7	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	52.0	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	53.7	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	56.8	5.00	0.264	ug/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	151	25.0	0.750	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	18400	500	315	mg/L
14808-79-8	Sulfate	32500	1000	575	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241307	**MW-08-06-MSD**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.53	0.20	0.030	mg/L
7440-36-0	Antimony	0.49	0.060	0.0031	mg/L
7440-38-2	Arsenic	0.52	0.010	0.0036	mg/L
7440-39-3	Barium	0.43	0.010	0.00071	mg/L
7440-41-7	Beryllium	0.42	0.0050	0.00010	mg/L
7440-43-9	Cadmium	0.41	0.0050	0.00016	mg/L
7440-70-2	Calcium	455	0.10	0.046	mg/L
7440-47-3	Chromium	0.43	0.010	0.00026	mg/L
7440-48-4	Cobalt	0.40	0.010	0.00058	mg/L
7440-50-8	Copper	0.47	0.010	0.0010	mg/L
7439-92-1	Lead	0.38	0.015	0.0020	mg/L
7439-95-4	Magnesium	704	0.10	0.016	mg/L
7439-96-5	Manganese	0.42	0.015	0.0013	mg/L
7440-02-0	Nickel	0.38	0.040	0.0011	mg/L
7440-09-7	Potassium	44.7	0.50	0.0035	mg/L
7782-49-2	Selenium	0.52	0.040	0.0044	mg/L
7440-22-4	Silver	0.50	0.010	0.00070	mg/L
7440-28-0	Thallium	0.37	0.020	0.0030	mg/L
7440-62-2	Vanadium	0.49	0.020	0.0012	mg/L
7440-66-6	Zinc	0.48	0.020	0.0045	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	4.47	0.10	0.013	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4000	10.0	0.61	mg/L

SW-846 7470A Water

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00359	0.00020	0.000068	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	41.6	5.00	1.15	mg/L

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	53.5	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	51.4	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	57.5	5.00	0.109	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241307	**MW-08-06-MSD**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
79-00-5	1,1,2-Trichloroethane	53.8	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	52.2	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	46.0	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	51.3	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	56.4	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	49.8	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	46.3	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	64.0	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	55.2	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	48.7	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	51.0	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	103	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	50.9	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	47.8	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	47.4	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	52.3	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	46.5	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	50.3	5.00	0.170	ug/L
78-93-3	2-Butanone	53.0	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	47.8	5.00	0.080	ug/L
591-78-6	2-Hexanone	61.1	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	47.3	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	47.5	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	65.3	5.00	0.120	ug/L
67-64-1	Acetone	37.0	5.00	0.193	ug/L
71-43-2	Benzene	50.0	5.00	0.111	ug/L
108-86-1	Bromobenzene	47.4	5.00	0.145	ug/L
74-97-5	Bromochloromethane	52.3	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	53.2	5.00	0.083	ug/L
75-25-2	Bromoform	55.0	5.00	0.215	ug/L
74-83-9	Bromomethane	39.3	5.00	0.427	ug/L
75-15-0	Carbon disulfide	46.0	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	50.2	5.00	0.248	ug/L
108-90-7	Chlorobenzene	49.4	5.00	0.083	ug/L
75-00-3	Chloroethane	49.7	5.00	0.235	ug/L
67-66-3	Chloroform	51.3	5.00	0.155	ug/L
74-87-3	Chloromethane	45.5	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	54.1	5.00	0.054	ug/L
74-95-3	Dibromomethane	52.1	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	46.7	5.00	0.145	ug/L
100-41-4	Ethylbenzene	49.5	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	49.0	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	50.0	5.00	0.130	ug/L
74-88-4	Methyl iodide	48.1	5.00	0.084	ug/L
75-09-2	Methylene chloride	46.0	5.00	0.149	ug/L
91-20-3	Naphthalene	54.0	5.00	0.176	ug/L
100-42-5	Styrene	50.6	5.00	0.089	ug/L
127-18-4	Tetrachloroethene	49.2	5.00	0.193	ug/L
108-88-3	Toluene	47.7	5.00	0.122	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241307	**MW-08-06-MSD**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	49.6	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	50.2	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	46.7	5.00	0.158	ug/L
75-01-4	Vinyl chloride	48.3	5.00	0.127	ug/L
1330-20-7	Xylene (total)	148	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	52.1	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	53.1	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	97.8	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	48.7	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	47.1	5.00	0.727	ug/L
95-47-6	o-Xylene	50.1	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	47.8	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	51.8	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	48.7	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	50.7	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	54.2	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	57.6	5.00	0.264	ug/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	18500	500	315	mg/L
14808-79-8	Sulfate	32900	1000	575	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	149	25.0	0.750	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	16.3	1.00	0.180	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241308	**TRIP BLANK #2**	Water	10/23/2012 00:00	10/24/2012 10:00

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.09J	5.00	0.193	ug/L
74-87-3	Chloromethane	1.25J	5.00	0.144	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241309	**S10-MW06**	Water	10/23/2012 08:45	10/24/2012 10:00

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.13J	0.20	0.030	mg/L
7440-38-2	Arsenic	0.021	0.010	0.0036	mg/L
7440-39-3	Barium	0.0047J	0.010	0.00071	mg/L
7440-41-7	Beryllium	0.00017J	0.0050	0.00010	mg/L
7440-70-2	Calcium	406	0.10	0.046	mg/L
7440-47-3	Chromium	0.017	0.010	0.00026	mg/L
7440-50-8	Copper	0.0019J	0.010	0.0010	mg/L
7439-95-4	Magnesium	524	0.10	0.016	mg/L
7439-96-5	Manganese	0.070	0.015	0.0013	mg/L
7440-09-7	Potassium	43.5	0.50	0.0035	mg/L
7440-62-2	Vanadium	0.044	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	3040	10.0	0.61	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	47.1	5.00	1.15	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	14700	10.0	7.00	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.21J	5.00	0.193	ug/L
74-87-3	Chloromethane	1.06J	5.00	0.144	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	2280	200	126	mg/L
14808-79-8	Sulfate	6860	400	230	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	0.638J	1.00	0.180	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241310	**MW-08-04**	Water	10/23/2012 11:10	10/24/2012 10:00

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.073J	0.20	0.030	mg/L
7440-38-2	Arsenic	0.0039J	0.010	0.0036	mg/L
7440-39-3	Barium	0.011	0.010	0.00071	mg/L
7440-41-7	Beryllium	0.00042J	0.0050	0.00010	mg/L
7440-70-2	Calcium	456	0.10	0.046	mg/L
7440-47-3	Chromium	0.011	0.010	0.00026	mg/L
7440-48-4	Cobalt	0.00088J	0.010	0.00058	mg/L
7439-95-4	Magnesium	247	0.10	0.016	mg/L
7440-09-7	Potassium	20.5	0.50	0.0035	mg/L
7440-28-0	Thallium	0.0056J	0.020	0.0030	mg/L
7440-62-2	Vanadium	0.027	0.020	0.0012	mg/L
7440-66-6	Zinc	0.029	0.020	0.0045	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	655	2.00	0.12	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.19J	5.00	1.15	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5310	10.0	7.00	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
74-87-3	Chloromethane	1.01J	5.00	0.144	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	0.901J	1.00	0.180	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	513	50.0	31.5	mg/L
14808-79-8	Sulfate	3130	100	57.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241311	**TRIP BLANK #3**	Water	10/23/2012 00:00	10/24/2012 10:00

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	**Acetone**	**2.53J**	**5.00**	**0.193**	**ug/L**
74-87-3	**Chloromethane**	**1.32J**	**5.00**	**0.144**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241301	**MW-08-08**	Water	10/22/2012 16:30	10/24/2012 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 13:44	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.23J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	**Chloromethane**	**1.90J**	**5.00**	**0.144**	**ug/L**
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241301	**MW-08-08**	Water	10/22/2012 16:30	10/24/2012 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 13:44	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.4	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	50.3	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	76 - 127

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493011	SW-846 7470A	1	10/31/2012 14:40	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	25	10/26/2012 16:00	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**7230**	**25.0**	**1.53**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241301	**MW-08-08**	Water	10/22/2012 16:30	10/24/2012 10:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	5	10/26/2012 18:03	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	**Antimony**	**0.028J**	**0.30**	**0.016**	**mg/L**
7440-38-2	**Arsenic**	**0.045J**	**0.050**	**0.018**	**mg/L**
7440-39-3	Barium	0.0035U	0.050	0.0035	mg/L
7440-41-7	Beryllium	0.00051U	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**708**	**0.50**	**0.23**	**mg/L**
7440-47-3	**Chromium**	**0.029J**	**0.050**	**0.0013**	**mg/L**
7440-48-4	Cobalt	0.0029U	0.050	0.0029	mg/L
7440-50-8	**Copper**	**0.0079J**	**0.050**	**0.0050**	**mg/L**
7439-89-6	Iron	0.063U	0.50	0.063	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**1620**	**0.50**	**0.082**	**mg/L**
7439-96-5	**Manganese**	**0.041J**	**0.075**	**0.0066**	**mg/L**
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**53.5**	**2.50**	**0.017**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	**Silver**	**0.018J**	**0.050**	**0.0035**	**mg/L**
7440-28-0	Thallium	0.015U	0.10	0.015	mg/L
7440-62-2	**Vanadium**	**0.11**	**0.10**	**0.0062**	**mg/L**
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	10/25/2012 15:45	DJH	493039

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**31800**	**100**	**70.0**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	10/24/2012 23:58	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**24.4J**	**25.0**	**5.75**	**mg/L**
14797-65-0	Nitrite	0.750U	25.0	0.750	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	11/02/2012 21:46	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	0.900U	5.00	0.900	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241301	**MW-08-08**	Water	10/22/2012 16:30	10/24/2012 10:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	11/02/2012 22:04	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**12300**	**500**	**315**	**mg/L**
14808-79-8	**Sulfate**	**7540**	**1000**	**575**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241302	**MW-08-02**	Water	10/23/2012 10:20	10/24/2012 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 14:06	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**14.5**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.56J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	**Chloromethane**	**2.41J**	**5.00**	**0.144**	**ug/L**
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241302	**MW-08-02**	Water	10/23/2012 10:20	10/24/2012 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 14:06	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.6	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	48.9	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	50.3	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	76 - 127

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493011	SW-846 7470A	1	10/31/2012 14:41	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 20:03	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.030U	0.20	0.030	mg/L
7440-36-0	Antimony	0.0031U	0.060	0.0031	mg/L
7440-38-2	**Arsenic**	**0.040**	**0.010**	**0.0036**	**mg/L**
7440-39-3	**Barium**	**0.011**	**0.010**	**0.00071**	**mg/L**
7440-41-7	**Beryllium**	**0.00071J**	**0.0050**	**0.00010**	**mg/L**
7440-43-9	Cadmium	0.00016U	0.0050	0.00016	mg/L
7440-70-2	**Calcium**	**569**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.0074J**	**0.010**	**0.00026**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241302	**MW-08-02**	Water	10/23/2012 10:20	10/24/2012 10:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 20:03	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	**Cobalt**	**0.0035J**	**0.010**	**0.00058**	**mg/L**
7440-50-8	Copper	0.0010U	0.010	0.0010	mg/L
7439-92-1	Lead	0.0020U	0.015	0.0020	mg/L
7439-95-4	**Magnesium**	**151**	**0.10**	**0.016**	**mg/L**
7439-96-5	**Manganese**	**1.15**	**0.015**	**0.0013**	**mg/L**
7440-02-0	Nickel	0.0011U	0.040	0.0011	mg/L
7440-09-7	**Potassium**	**4.32**	**0.50**	**0.0035**	**mg/L**
7782-49-2	Selenium	0.0044U	0.040	0.0044	mg/L
7440-22-4	Silver	0.00070U	0.010	0.00070	mg/L
7440-28-0	**Thallium**	**0.0044J**	**0.020**	**0.0030**	**mg/L**
7440-62-2	Vanadium	0.0012U	0.020	0.0012	mg/L
7440-66-6	Zinc	0.0045U	0.020	0.0045	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/26/2012 16:07	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	**Iron**	**0.92**	**0.10**	**0.013**	**mg/L**
7440-23-5	**Sodium**	**116**	**1.00**	**0.061**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/24/2012 15:45	DJH	493039

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3430**	**10.0**	**7.00**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	10/25/2012 00:16	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.575U	2.50	0.575	mg/L
14797-65-0	Nitrite	0.075U	2.50	0.075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241302	**MW-08-02**	Water	10/23/2012 10:20	10/24/2012 10:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	11/02/2012 21:11	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**3.53**	**0.500**	**0.090**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			300	11/02/2012 21:28	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**101**	**30.0**	**18.9**	**mg/L**
14808-79-8	**Sulfate**	**1890**	**60.0**	**34.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241303	**MW-08-03**	Water	10/23/2012 08:40	10/24/2012 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 14:27	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.36J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	**Chloroform**	**0.578J**	**5.00**	**0.155**	**ug/L**
74-87-3	**Chloromethane**	**2.28J**	**5.00**	**0.144**	**ug/L**
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241303	**MW-08-03**	Water	10/23/2012 08:40	10/24/2012 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 14:27	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.5	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.5	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.7	ug/L	99	76 - 127

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493011	SW-846 7470A	1	10/31/2012 14:43	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 20:11	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.13J**	**0.20**	**0.030**	**mg/L**
7440-36-0	**Antimony**	**0.0041J**	**0.060**	**0.0031**	**mg/L**
7440-38-2	**Arsenic**	**0.019**	**0.010**	**0.0036**	**mg/L**
7440-39-3	**Barium**	**0.0044J**	**0.010**	**0.00071**	**mg/L**
7440-41-7	**Beryllium**	**0.00026J**	**0.0050**	**0.00010**	**mg/L**
7440-43-9	Cadmium	0.00016U	0.0050	0.00016	mg/L
7440-70-2	**Calcium**	**548**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.019**	**0.010**	**0.00026**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241303	**MW-08-03**	Water	10/23/2012 08:40	10/24/2012 10:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 20:11	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	**Cobalt**	**0.00060J**	**0.010**	**0.00058**	**mg/L**
7440-50-8	**Copper**	**0.0016J**	**0.010**	**0.0010**	**mg/L**
7439-92-1	Lead	0.0020U	0.015	0.0020	mg/L
7439-95-4	**Magnesium**	**680**	**0.10**	**0.016**	**mg/L**
7439-96-5	Manganese	0.0013U	0.015	0.0013	mg/L
7440-02-0	Nickel	0.0011U	0.040	0.0011	mg/L
7440-09-7	**Potassium**	**29.1**	**0.50**	**0.0035**	**mg/L**
7782-49-2	Selenium	0.0044U	0.040	0.0044	mg/L
7440-22-4	Silver	0.00070U	0.010	0.00070	mg/L
7440-28-0	Thallium	0.0030U	0.020	0.0030	mg/L
7440-62-2	**Vanadium**	**0.035**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0045U	0.020	0.0045	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	10	10/26/2012 16:33	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2820**	**10.0**	**0.61**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/26/2012 18:11	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.013U	0.10	0.013	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/24/2012 15:45	DJH	493039

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**13400**	**10.0**	**7.00**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	10/25/2012 00:33	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**12.3**	**2.50**	**0.575**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241303	**MW-08-03**	Water	10/23/2012 08:40	10/24/2012 10:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	10/25/2012 10:44	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**5180**	**5.00**	**3.15**	**mg/L**
16984-48-8	**Fluoride**	**3.11J**	**5.00**	**0.900**	**mg/L**
14797-65-0	Nitrite	0.750U	25.0	0.750	mg/L
14808-79-8	**Sulfate**	**5970**	**10.0**	**5.75**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241304	**TRIP BLANK #1**	Water	10/22/2012 00:00	10/24/2012 10:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 14:48	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.98J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	**Chloromethane**	**1.93J**	**5.00**	**0.144**	**ug/L**
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241304	**TRIP BLANK #1**	Water	10/22/2012 00:00	10/24/2012 10:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 14:48	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.8	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241305	**MW-08-06**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 13:23	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.47J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	**Chloroform**	**0.621J**	**5.00**	**0.155**	**ug/L**
74-87-3	**Chloromethane**	**2.61J**	**5.00**	**0.144**	**ug/L**
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241305	**MW-08-06**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 13:23	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.5	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.4	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.6	ug/L	101	76 - 127

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493011	SW-846 7470A	1	10/31/2012 14:30	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 19:22	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.030U	0.20	0.030	mg/L
7440-36-0	**Antimony**	**0.0095J**	**0.060**	**0.0031**	**mg/L**
7440-38-2	**Arsenic**	**0.013**	**0.010**	**0.0036**	**mg/L**
7440-39-3	**Barium**	**0.0061J**	**0.010**	**0.00071**	**mg/L**
7440-41-7	**Beryllium**	**0.00027J**	**0.0050**	**0.00010**	**mg/L**
7440-43-9	Cadmium	0.00016U	0.0050	0.00016	mg/L
7440-70-2	**Calcium**	**479**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.021**	**0.010**	**0.00026**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241305	**MW-08-06**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 19:22	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	**Cobalt**	**0.00069J**	**0.010**	**0.00058**	**mg/L**
7440-50-8	**Copper**	**0.0050J**	**0.010**	**0.0010**	**mg/L**
7439-92-1	Lead	0.0020U	0.015	0.0020	mg/L
7439-95-4	**Magnesium**	**753**	**0.10**	**0.016**	**mg/L**
7439-96-5	Manganese	0.0013U	0.015	0.0013	mg/L
7440-02-0	Nickel	0.0011U	0.040	0.0011	mg/L
7440-09-7	**Potassium**	**31.9**	**0.50**	**0.0035**	**mg/L**
7782-49-2	Selenium	0.0044U	0.040	0.0044	mg/L
7440-22-4	Silver	0.00070U	0.010	0.00070	mg/L
7440-28-0	**Thallium**	**0.0037J**	**0.020**	**0.0030**	**mg/L**
7440-62-2	**Vanadium**	**0.037**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0045U	0.020	0.0045	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	10	10/26/2012 15:24	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4220**	**10.0**	**0.61**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/26/2012 17:00	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.013U	0.10	0.013	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/24/2012 15:45	DJH	493039

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**19800**	**10.0**	**7.00**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	10/25/2012 00:51	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**15.2**	**5.00**	**1.15**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241305	**MW-08-06**	Water	10/23/2012 09:40	10/24/2012 10:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	10/25/2012 11:01	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.750U	25.0	0.750	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	11/02/2012 22:56	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**5860**	**500**	**315**	**mg/L**
14808-79-8	**Sulfate**	**7070**	**1000**	**575**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/03/2012 00:24	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**0.465J**	**1.00**	**0.180**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241306	**MW-08-06-MS**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 15:10	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	53.3	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	51.5	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	57.7	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	52.8	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	52.6	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	47.8	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	52.2	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	58.6	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	49.0	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	47.1	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	62.3	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	55.0	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	49.0	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	50.9	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	104	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	51.0	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	48.5	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	47.8	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	52.2	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	47.0	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	51.9	5.00	0.170	ug/L
78-93-3	2-Butanone	52.6	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	48.5	5.00	0.080	ug/L
591-78-6	2-Hexanone	59.4	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	48.0	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	48.4	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	63.1	5.00	0.120	ug/L
67-64-1	Acetone	36.0	5.00	0.193	ug/L
71-43-2	Benzene	50.0	5.00	0.111	ug/L
108-86-1	Bromobenzene	47.8	5.00	0.145	ug/L
74-97-5	Bromochloromethane	52.0	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	53.4	5.00	0.083	ug/L
75-25-2	Bromoform	54.6	5.00	0.215	ug/L
74-83-9	Bromomethane	36.9	5.00	0.427	ug/L
75-15-0	Carbon disulfide	48.8	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	51.1	5.00	0.248	ug/L
108-90-7	Chlorobenzene	50.3	5.00	0.083	ug/L
75-00-3	Chloroethane	47.6	5.00	0.235	ug/L
67-66-3	Chloroform	50.9	5.00	0.155	ug/L
74-87-3	Chloromethane	45.2	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	54.0	5.00	0.054	ug/L
74-95-3	Dibromomethane	51.6	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	48.0	5.00	0.145	ug/L
100-41-4	Ethylbenzene	50.9	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	49.6	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	50.3	5.00	0.130	ug/L
74-88-4	Methyl iodide	48.0	5.00	0.084	ug/L
75-09-2	Methylene chloride	46.0	5.00	0.149	ug/L
91-20-3	Naphthalene	51.8	5.00	0.176	ug/L
100-42-5	Styrene	51.3	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241306	**MW-08-06-MS**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 15:10	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**50.2**	**5.00**	**0.193**	**ug/L**
108-88-3	**Toluene**	**48.4**	**5.00**	**0.122**	**ug/L**
79-01-6	**Trichloroethene**	**50.8**	**5.00**	**0.161**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**51.1**	**5.00**	**0.157**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**48.7**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**49.8**	**5.00**	**0.127**	**ug/L**
1330-20-7	**Xylene (total)**	**149**	**15.0**	**0.179**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**52.3**	**5.00**	**0.103**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**54.1**	**5.00**	**0.124**	**ug/L**
136777-61-2	**m,p-Xylene**	**98.5**	**10.0**	**0.123**	**ug/L**
104-51-8	**n-Butylbenzene**	**49.4**	**5.00**	**0.123**	**ug/L**
103-65-1	**n-Propylbenzene**	**48.1**	**5.00**	**0.727**	**ug/L**
95-47-6	**o-Xylene**	**50.8**	**5.00**	**0.055**	**ug/L**
135-98-8	**sec-Butylbenzene**	**48.8**	**5.00**	**0.107**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**51.8**	**5.00**	**0.078**	**ug/L**
98-06-6	**tert-Butylbenzene**	**49.7**	**5.00**	**0.087**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**52.0**	**5.00**	**0.077**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**53.7**	**5.00**	**0.128**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**56.8**	**5.00**	**0.264**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.6	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	50.1	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	76 - 127

SW-846 7470A Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493011	SW-846 7470A	1	10/31/2012 14:35	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00354**	**0.00020**	**0.000068**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 19:29	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4.76**	**0.20**	**0.030**	**mg/L**
7440-36-0	**Antimony**	**0.51**	**0.060**	**0.0031**	**mg/L**
7440-38-2	**Arsenic**	**0.55**	**0.010**	**0.0036**	**mg/L**
7440-39-3	**Barium**	**0.45**	**0.010**	**0.00071**	**mg/L**
7440-41-7	**Beryllium**	**0.43**	**0.0050**	**0.00010**	**mg/L**
7440-43-9	**Cadmium**	**0.41**	**0.0050**	**0.00016**	**mg/L**
7440-70-2	**Calcium**	**494**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.45**	**0.010**	**0.00026**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241306	**MW-08-06-MS**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 19:29	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	**Cobalt**	**0.41**	**0.010**	**0.00058**	**mg/L**
7440-50-8	**Copper**	**0.49**	**0.010**	**0.0010**	**mg/L**
7439-92-1	**Lead**	**0.40**	**0.015**	**0.0020**	**mg/L**
7439-95-4	**Magnesium**	**771**	**0.10**	**0.016**	**mg/L**
7439-96-5	**Manganese**	**0.43**	**0.015**	**0.0013**	**mg/L**
7440-02-0	**Nickel**	**0.39**	**0.040**	**0.0011**	**mg/L**
7440-09-7	**Potassium**	**48.6**	**0.50**	**0.0035**	**mg/L**
7782-49-2	**Selenium**	**0.54**	**0.040**	**0.0044**	**mg/L**
7440-22-4	**Silver**	**0.53**	**0.010**	**0.00070**	**mg/L**
7440-28-0	**Thallium**	**0.39**	**0.020**	**0.0030**	**mg/L**
7440-62-2	**Vanadium**	**0.51**	**0.020**	**0.0012**	**mg/L**
7440-66-6	**Zinc**	**0.49**	**0.020**	**0.0045**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	10	10/26/2012 15:31	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4300**	**10.0**	**0.61**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/26/2012 17:08	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	**Iron**	**4.60**	**0.10**	**0.013**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	10/25/2012 01:08	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**41.0**	**5.00**	**1.15**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	10/25/2012 11:19	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**151**	**25.0**	**0.750**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241306	**MW-08-06-MS**	Water	10/23/2012 09:40	10/24/2012 10:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	11/02/2012 23:49	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**18400**	**500**	**315**	**mg/L**
14808-79-8	**Sulfate**	**32500**	**1000**	**575**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/03/2012 00:42	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**16.4**	**1.00**	**0.180**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241307	**MW-08-06-MSD**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 15:31	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	53.5	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	51.4	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	57.5	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	53.8	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	52.2	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	46.0	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	51.3	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	56.4	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	49.8	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	46.3	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	64.0	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	55.2	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	48.7	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	51.0	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	103	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	50.9	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	47.8	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	47.4	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	52.3	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	46.5	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	50.3	5.00	0.170	ug/L
78-93-3	2-Butanone	53.0	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	47.8	5.00	0.080	ug/L
591-78-6	2-Hexanone	61.1	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	47.3	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	47.5	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	65.3	5.00	0.120	ug/L
67-64-1	Acetone	37.0	5.00	0.193	ug/L
71-43-2	Benzene	50.0	5.00	0.111	ug/L
108-86-1	Bromobenzene	47.4	5.00	0.145	ug/L
74-97-5	Bromochloromethane	52.3	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	53.2	5.00	0.083	ug/L
75-25-2	Bromoform	55.0	5.00	0.215	ug/L
74-83-9	Bromomethane	39.3	5.00	0.427	ug/L
75-15-0	Carbon disulfide	46.0	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	50.2	5.00	0.248	ug/L
108-90-7	Chlorobenzene	49.4	5.00	0.083	ug/L
75-00-3	Chloroethane	49.7	5.00	0.235	ug/L
67-66-3	Chloroform	51.3	5.00	0.155	ug/L
74-87-3	Chloromethane	45.5	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	54.1	5.00	0.054	ug/L
74-95-3	Dibromomethane	52.1	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	46.7	5.00	0.145	ug/L
100-41-4	Ethylbenzene	49.5	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	49.0	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	50.0	5.00	0.130	ug/L
74-88-4	Methyl iodide	48.1	5.00	0.084	ug/L
75-09-2	Methylene chloride	46.0	5.00	0.149	ug/L
91-20-3	Naphthalene	54.0	5.00	0.176	ug/L
100-42-5	Styrene	50.6	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241307	**MW-08-06-MSD**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 15:31	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**49.2**	**5.00**	**0.193**	**ug/L**
108-88-3	**Toluene**	**47.7**	**5.00**	**0.122**	**ug/L**
79-01-6	**Trichloroethene**	**49.6**	**5.00**	**0.161**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**50.2**	**5.00**	**0.157**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**46.7**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**48.3**	**5.00**	**0.127**	**ug/L**
1330-20-7	**Xylene (total)**	**148**	**15.0**	**0.179**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**52.1**	**5.00**	**0.103**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**53.1**	**5.00**	**0.124**	**ug/L**
136777-61-2	**m,p-Xylene**	**97.8**	**10.0**	**0.123**	**ug/L**
104-51-8	**n-Butylbenzene**	**48.7**	**5.00**	**0.123**	**ug/L**
103-65-1	**n-Propylbenzene**	**47.1**	**5.00**	**0.727**	**ug/L**
95-47-6	**o-Xylene**	**50.1**	**5.00**	**0.055**	**ug/L**
135-98-8	**sec-Butylbenzene**	**47.8**	**5.00**	**0.107**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**51.8**	**5.00**	**0.078**	**ug/L**
98-06-6	**tert-Butylbenzene**	**48.7**	**5.00**	**0.087**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**50.7**	**5.00**	**0.077**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**54.2**	**5.00**	**0.128**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**57.6**	**5.00**	**0.264**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.8	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	50.2	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	76 - 127

SW-846 7470A Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493011	SW-846 7470A	1	10/31/2012 14:36	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00359**	**0.00020**	**0.000068**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 19:35	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4.53**	**0.20**	**0.030**	**mg/L**
7440-36-0	**Antimony**	**0.49**	**0.060**	**0.0031**	**mg/L**
7440-38-2	**Arsenic**	**0.52**	**0.010**	**0.0036**	**mg/L**
7440-39-3	**Barium**	**0.43**	**0.010**	**0.00071**	**mg/L**
7440-41-7	**Beryllium**	**0.42**	**0.0050**	**0.00010**	**mg/L**
7440-43-9	**Cadmium**	**0.41**	**0.0050**	**0.00016**	**mg/L**
7440-70-2	**Calcium**	**455**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.43**	**0.010**	**0.00026**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241307	**MW-08-06-MSD**	Water	10/23/2012 09:40	10/24/2012 10:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 19:35	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	**Cobalt**	**0.40**	**0.010**	**0.00058**	**mg/L**
7440-50-8	**Copper**	**0.47**	**0.010**	**0.0010**	**mg/L**
7439-92-1	**Lead**	**0.38**	**0.015**	**0.0020**	**mg/L**
7439-95-4	**Magnesium**	**704**	**0.10**	**0.016**	**mg/L**
7439-96-5	**Manganese**	**0.42**	**0.015**	**0.0013**	**mg/L**
7440-02-0	**Nickel**	**0.38**	**0.040**	**0.0011**	**mg/L**
7440-09-7	**Potassium**	**44.7**	**0.50**	**0.0035**	**mg/L**
7782-49-2	**Selenium**	**0.52**	**0.040**	**0.0044**	**mg/L**
7440-22-4	**Silver**	**0.50**	**0.010**	**0.00070**	**mg/L**
7440-28-0	**Thallium**	**0.37**	**0.020**	**0.0030**	**mg/L**
7440-62-2	**Vanadium**	**0.49**	**0.020**	**0.0012**	**mg/L**
7440-66-6	**Zinc**	**0.48**	**0.020**	**0.0045**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	10	10/26/2012 15:39	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4000**	**10.0**	**0.61**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/26/2012 17:14	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	**Iron**	**4.47**	**0.10**	**0.013**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	10/25/2012 01:26	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**41.6**	**5.00**	**1.15**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	10/25/2012 11:36	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**149**	**25.0**	**0.750**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241307	**MW-08-06-MSD**	Water	10/23/2012 09:40	10/24/2012 10:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	11/03/2012 00:07	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**18500**	**500**	**315**	**mg/L**
14808-79-8	**Sulfate**	**32900**	**1000**	**575**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/03/2012 01:00	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**16.3**	**1.00**	**0.180**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241308	**TRIP BLANK #2**	Water	10/23/2012 00:00	10/24/2012 10:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 16:14	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.09J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	**Chloromethane**	**1.25J**	**5.00**	**0.144**	**ug/L**
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241308	**TRIP BLANK #2**	Water	10/23/2012 00:00	10/24/2012 10:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 16:14	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.5	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.7	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.9	ug/L	100	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241309	**S10-MW06**	Water	10/23/2012 08:45	10/24/2012 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 16:35	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.21J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	**Chloromethane**	**1.06J**	**5.00**	**0.144**	**ug/L**
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241309	**S10-MW06**	Water	10/23/2012 08:45	10/24/2012 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 16:35	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.3	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.6	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.1	ug/L	100	76 - 127

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493011	SW-846 7470A	1	10/31/2012 14:44	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 20:18	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.13J**	**0.20**	**0.030**	**mg/L**
7440-36-0	Antimony	0.0031U	0.060	0.0031	mg/L
7440-38-2	**Arsenic**	**0.021**	**0.010**	**0.0036**	**mg/L**
7440-39-3	**Barium**	**0.0047J**	**0.010**	**0.00071**	**mg/L**
7440-41-7	**Beryllium**	**0.00017J**	**0.0050**	**0.00010**	**mg/L**
7440-43-9	Cadmium	0.00016U	0.0050	0.00016	mg/L
7440-70-2	**Calcium**	**406**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.017**	**0.010**	**0.00026**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241309	**S10-MW06**	Water	10/23/2012 08:45	10/24/2012 10:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 20:18	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	Cobalt	0.00058U	0.010	0.00058	mg/L
7440-50-8	**Copper**	**0.0019J**	**0.010**	**0.0010**	**mg/L**
7439-92-1	Lead	0.0020U	0.015	0.0020	mg/L
7439-95-4	**Magnesium**	**524**	**0.10**	**0.016**	**mg/L**
7439-96-5	**Manganese**	**0.070**	**0.015**	**0.0013**	**mg/L**
7440-02-0	Nickel	0.0011U	0.040	0.0011	mg/L
7440-09-7	**Potassium**	**43.5**	**0.50**	**0.0035**	**mg/L**
7782-49-2	Selenium	0.0044U	0.040	0.0044	mg/L
7440-22-4	Silver	0.00070U	0.010	0.00070	mg/L
7440-28-0	Thallium	0.0030U	0.020	0.0030	mg/L
7440-62-2	**Vanadium**	**0.044**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0045U	0.020	0.0045	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	10	10/26/2012 16:40	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**3040**	**10.0**	**0.61**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/26/2012 18:19	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.013U	0.10	0.013	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/24/2012 15:45	DJH	493039

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**14700**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241309	**S10-MW06**	Water	10/23/2012 08:45	10/24/2012 10:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	10/25/2012 01:44	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**47.1**	**5.00**	**1.15**	**mg/L**
14797-65-0	Nitrite	0.150U	5.00	0.150	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/02/2012 20:35	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**0.638J**	**1.00**	**0.180**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	11/02/2012 20:53	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**2280**	**200**	**126**	**mg/L**
14808-79-8	**Sulfate**	**6860**	**400**	**230**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241310	**MW-08-04**	Water	10/23/2012 11:10	10/24/2012 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 16:57	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	**Chloromethane**	**1.01J**	**5.00**	**0.144**	**ug/L**
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241310	**MW-08-04**	Water	10/23/2012 11:10	10/24/2012 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 16:57	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.5	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.4	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	76 - 127

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493011	SW-846 7470A	1	10/31/2012 14:46	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 20:39	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.073J**	**0.20**	**0.030**	**mg/L**
7440-36-0	Antimony	0.0031U	0.060	0.0031	mg/L
7440-38-2	**Arsenic**	**0.0039J**	**0.010**	**0.0036**	**mg/L**
7440-39-3	**Barium**	**0.011**	**0.010**	**0.00071**	**mg/L**
7440-41-7	**Beryllium**	**0.00042J**	**0.0050**	**0.00010**	**mg/L**
7440-43-9	Cadmium	0.00016U	0.0050	0.00016	mg/L
7440-70-2	**Calcium**	**456**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.011**	**0.010**	**0.00026**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241310	**MW-08-04**	Water	10/23/2012 11:10	10/24/2012 10:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/25/2012 20:39	CLB	493090

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	**Cobalt**	**0.00088J**	**0.010**	**0.00058**	**mg/L**
7440-50-8	Copper	0.0010U	0.010	0.0010	mg/L
7439-92-1	Lead	0.0020U	0.015	0.0020	mg/L
7439-95-4	**Magnesium**	**247**	**0.10**	**0.016**	**mg/L**
7439-96-5	Manganese	0.0013U	0.015	0.0013	mg/L
7440-02-0	Nickel	0.0011U	0.040	0.0011	mg/L
7440-09-7	**Potassium**	**20.5**	**0.50**	**0.0035**	**mg/L**
7782-49-2	Selenium	0.0044U	0.040	0.0044	mg/L
7440-22-4	Silver	0.00070U	0.010	0.00070	mg/L
7440-28-0	**Thallium**	**0.0056J**	**0.020**	**0.0030**	**mg/L**
7440-62-2	**Vanadium**	**0.027**	**0.020**	**0.0012**	**mg/L**
7440-66-6	**Zinc**	**0.029**	**0.020**	**0.0045**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	2	10/26/2012 16:47	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**655**	**2.00**	**0.12**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/24/2012 13:00	493010	SW-846 3005 Dissolved	1	10/26/2012 18:26	CLB	493242

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.013U	0.10	0.013	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/24/2012 15:45	DJH	493039

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5310**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241310	**MW-08-04**	Water	10/23/2012 11:10	10/24/2012 10:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	10/25/2012 02:01	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**4.19J**	**5.00**	**1.15**	**mg/L**
14797-65-0	Nitrite	0.150U	5.00	0.150	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/02/2012 22:21	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**0.901J**	**1.00**	**0.180**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	11/02/2012 22:39	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**513**	**50.0**	**31.5**	**mg/L**
14808-79-8	**Sulfate**	**3130**	**100**	**57.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241311	**TRIP BLANK #3**	Water	10/23/2012 00:00	10/24/2012 10:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 17:18	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**2.53J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	**Chloromethane**	**1.32J**	**5.00**	**0.144**	**ug/L**
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210241311	**TRIP BLANK #3**	Water	10/23/2012 00:00	10/24/2012 10:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 17:18	LBH	493526

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.6	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.7	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 493526		**Client ID**	MB493526			LCS493526			LCSD493526		
Prep Batch N/A		**GCAL ID**	1122932			1122933			1122934		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/31/2012 09:44			10/31/2012 07:58			10/31/2012 08:19		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	1.45J	0.193		50.0	55.8	112	59 - 134	57.6	115	3	30
74-97-5	Bromochloromethane	0.127U	0.127		50.0	56.9	**114***	78 - 112	57.1	**114***	0.4	30
75-27-4	Bromodichloromethane	0.083U	0.083		50.0	57.8	116	76 - 116	57.1	114	1	30
75-25-2	Bromoform	0.215U	0.215		50.0	55.6	111	68 - 128	56.5	113	2	30
74-83-9	Bromomethane	0.427U	0.427		50.0	36.8	74	55 - 151	41.2	82	11	30
75-15-0	Carbon disulfide	0.190U	0.190		50.0	55.9	112	67 - 147	54.1	108	3	30
56-23-5	Carbon tetrachloride	0.248U	0.248		50.0	55.0	110	74 - 139	53.9	108	2	30
75-00-3	Chloroethane	0.235U	0.235		50.0	49.2	98	54 - 166	48.2	96	2	30
136777-61-2	m,p-Xylene	0.123U	0.123		100	110	110	83 - 121	107	107	3	30
67-66-3	Chloroform	0.155U	0.155		50.0	55.0	110	85 - 123	54.2	108	1	30
74-87-3	Chloromethane	1.20J	0.144		50.0	50.8	102	55 - 173	46.6	93	9	30
124-48-1	Dibromochloromethane	0.054U	0.054		50.0	58.3	**117***	74 - 116	58.1	116	0.3	30
74-95-3	Dibromomethane	0.211U	0.211		50.0	53.9	108	81 - 116	54.7	109	1	30
75-71-8	Dichlorodifluoromethane	0.145U	0.145		50.0	51.9	104	34 - 158	50.9	102	2	30
75-34-3	1,1-Dichloroethane	0.171U	0.171		50.0	56.6	113	82 - 127	55.9	112	1	30
107-06-2	1,2-Dichloroethane	0.116U	0.116		50.0	53.8	108	76 - 122	53.8	108	0	30
156-59-2	cis-1,2-Dichloroethene	0.103U	0.103		50.0	56.5	113	81 - 114	56.4	113	0.2	30
156-60-5	trans-1,2-Dichloroethene	0.077U	0.077		50.0	56.6	113	82 - 126	55.3	111	2	30
75-09-2	Methylene chloride	0.528J	0.149		50.0	49.8	100	69 - 125	49.6	99	0.4	30
78-87-5	1,2-Dichloropropane	0.150U	0.150		50.0	54.8	110	81 - 120	54.6	109	0.4	30
10061-01-5	cis-1,3-Dichloropropene	0.124U	0.124		50.0	58.9	118	83 - 119	58.3	117	1	30
10061-02-6	trans-1,3-Dichloropropene	0.128U	0.128		50.0	57.7	115	87 - 123	57.4	115	0.5	30
100-41-4	Ethylbenzene	0.109U	0.109		50.0	55.8	112	87 - 118	54.8	110	2	30
591-78-6	2-Hexanone	0.122U	0.122		50.0	53.5	107	58 - 125	56.0	112	5	30
98-82-8	Isopropylbenzene (Cumene)	0.130U	0.130		50.0	55.1	110	87 - 131	54.5	109	1	30
78-93-3	2-Butanone	0.142U	0.142		50.0	53.5	107	61 - 127	56.6	113	6	30
74-88-4	Methyl iodide	0.084U	0.084		50.0	47.1	94	72 - 125	52.2	104	10	30
108-10-1	4-Methyl-2-pentanone	0.120U	0.120		50.0	51.7	103	62 - 125	53.5	107	3	30
103-65-1	n-Propylbenzene	0.727U	0.727		50.0	52.4	105	86 - 125	51.3	103	2	30
100-42-5	Styrene	0.089U	0.089		50.0	56.9	114	78 - 118	55.9	112	2	30
127-18-4	Tetrachloroethene	0.193U	0.193		50.0	56.2	112	80 - 131	54.5	109	3	30
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	0.120		50.0	58.2	116	81 - 119	58.3	117	0.2	30
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	0.109		50.0	53.3	107	71 - 120	53.8	108	0.9	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 493526	**Client ID**	MB493526	LCS493526	LCSD493526
Prep Batch N/A	**GCAL ID**	1122932	1122933	1122934
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	10/31/2012 09:44	10/31/2012 07:58	10/31/2012 08:19
	Matrix	Water	Water	Water

SW-846 8260B Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
120-82-1	1,2,4-Trichlorobenzene	0.105U	0.105	50.0	54.8	110	68 - 123	55.3	111	0.9	30
71-55-6	1,1,1-Trichloroethane	0.123U	0.123	50.0	55.8	112	79 - 133	54.8	110	2	30
79-00-5	1,1,2-Trichloroethane	0.159U	0.159	50.0	55.6	111	80 - 114	56.0	112	0.7	30
75-69-4	Trichlorofluoromethane	0.157U	0.157	50.0	53.6	107	66 - 156	52.2	104	3	30
96-18-4	1,2,3-Trichloropropane	0.065U	0.065	50.0	51.7	103	77 - 115	55.3	111	7	30
95-63-6	1,2,4-Trimethylbenzene	0.084U	0.084	50.0	51.2	102	82 - 120	51.0	102	0.4	30
108-67-8	1,3,5-Trimethylbenzene	0.066U	0.066	50.0	53.4	107	83 - 123	52.1	104	2	30
75-01-4	Vinyl chloride	0.127U	0.127	50.0	53.4	107	57 - 153	52.4	105	2	30
95-47-6	o-Xylene	0.055U	0.055	50.0	55.4	111	83 - 121	54.9	110	0.9	30
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	0.194	50.0	54.2	108	61 - 118	55.3	111	2	30
106-93-4	1,2-Dibromoethane	0.102U	0.102	50.0	56.0	112	80 - 115	56.8	114	1	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078	50.0	53.4	107	75 - 116	54.5	109	2	30
540-59-0	1,2-Dichloroethene(Total)	0.180U	0.180	100	113	113	74 - 128	112	112	0.9	30
99-87-6	4-Isopropyltoluene	0.070U	0.070	50.0	53.3	107	83 - 125	52.0	104	2	30
1330-20-7	Xylene (total)	0.179U	0.179	150	165	110	74 - 127	162	108	2	30
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	0.264	50.0	51.3	103	51 - 137	51.5	103	0.4	30
594-20-7	2,2-Dichloropropane	0.170U	0.170	50.0	57.9	116	77 - 138	55.5	111	4	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158	50.0	54.0	108	74 - 139	52.0	104	4	30
563-58-6	1,1-Dichloropropene	0.052U	0.052	50.0	56.7	113	87 - 127	55.6	111	2	30
142-28-9	1,3-Dichloropropane	0.059U	0.059	50.0	54.8	110	81 - 113	55.0	110	0.4	30
108-86-1	Bromobenzene	0.145U	0.145	50.0	51.8	104	83 - 115	50.9	102	2	30
95-49-8	2-Chlorotoluene	0.080U	0.080	50.0	52.9	106	81 - 121	51.8	104	2	30
106-43-4	4-Chlorotoluene	0.124U	0.124	50.0	52.7	105	84 - 120	51.8	104	2	30
98-06-6	tert-Butylbenzene	0.087U	0.087	50.0	53.5	107	83 - 126	52.1	104	3	30
135-98-8	sec-Butylbenzene	0.107U	0.107	50.0	53.3	107	86 - 127	52.3	105	2	30
541-73-1	1,3-Dichlorobenzene	0.138U	0.138	50.0	52.7	105	86 - 115	51.9	104	2	30
106-46-7	1,4-Dichlorobenzene	0.083U	0.083	50.0	51.4	103	87 - 113	51.0	102	0.8	30
104-51-8	n-Butylbenzene	0.123U	0.123	50.0	54.7	109	84 - 124	53.1	106	3	30
95-50-1	1,2-Dichlorobenzene	0.135U	0.135	50.0	53.1	106	85 - 115	52.9	106	0.4	30
87-68-3	Hexachlorobutadiene	0.265U	0.265	50.0	56.1	112	71 - 133	55.1	110	2	30
91-20-3	Naphthalene	0.176U	0.176	50.0	48.5	97	59 - 125	52.0	104	7	35
75-35-4	1,1-Dichloroethene	0.208U	0.208	50.0	53.1	106	75 - 133	51.8	104	2	20
71-43-2	Benzene	0.111U	0.111	50.0	54.2	108	83 - 124	54.2	108	0	20

GC/MS Volatiles Quality Control Summary

Analytical Batch 493526		**Client ID**	MB493526			LCS493526			LCSD493526		
Prep Batch N/A		**GCAL ID**	1122932			1122933			1122934		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/31/2012 09:44			10/31/2012 07:58			10/31/2012 08:19		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.161U	0.161	50.0	55.5	111	85 - 124	55.5	111	0	20
108-88-3	Toluene		0.122U	0.122	50.0	53.1	106	86 - 116	52.6	105	0.9	20
108-90-7	Chlorobenzene		0.083U	0.083	50.0	54.8	110	87 - 115	53.9	108	2	20
Surrogate												
460-00-4	4-Bromofluorobenzene		50.2	100	50	51.3	103	84 - 120	50.9	102		
1868-53-7	Dibromofluoromethane		49.4	99	50	50.7	101	87 - 116	50.8	102		
2037-26-5	Toluene d8		50.7	101	50	50.6	101	86 - 112	50.7	101		
17060-07-0	1,2-Dichloroethane-d4		49.2	98	50	49.6	99	76 - 127	49.4	99		

Analytical Batch 493526		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21210241305			21210241306			21210241307		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	10/31/2012 13:23			10/31/2012 15:10			10/31/2012 15:31		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**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	0.120	50.0	53.3	107	81 - 119	53.5	107	0.4	10
71-55-6	1,1,1-Trichloroethane		0.00	0.123	50.0	51.5	103	79 - 133	51.4	103	0.2	11
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.109	50.0	57.7	115	71 - 120	57.5	115	0.3	11
79-00-5	1,1,2-Trichloroethane		0.00	0.159	50.0	52.8	106	80 - 114	53.8	108	2	11
75-34-3	1,1-Dichloroethane		0.00	0.171	50.0	52.6	105	82 - 127	52.2	104	0.8	10
75-35-4	1,1-Dichloroethene		0.00	0.208	50.0	47.8	96	75 - 133	46.0	92	4	13
563-58-6	1,1-Dichloropropene		0.00	0.052	50.0	52.2	104	87 - 127	51.3	103	2	10
96-18-4	1,2,3-Trichloropropane		0.00	0.065	50.0	58.6	**117***	77 - 115	56.4	113	4	12
120-82-1	1,2,4-Trichlorobenzene		0.00	0.105	50.0	49.0	98	68 - 123	49.8	100	2	11
95-63-6	1,2,4-Trimethylbenzene		0.00	0.084	50.0	47.1	94	82 - 120	46.3	93	2	10
96-12-8	1,2-Dibromo-3-chloropropane		0.00	0.194	50.0	62.3	**125***	61 - 118	64.0	**128***	3	15
106-93-4	1,2-Dibromoethane		0.00	0.102	50.0	55.0	110	80 - 115	55.2	110	0.4	10
95-50-1	1,2-Dichlorobenzene		0.00	0.135	50.0	49.0	98	85 - 115	48.7	97	0.6	9
107-06-2	1,2-Dichloroethane		0.00	0.116	50.0	50.9	102	76 - 122	51.0	102	0.2	11
540-59-0	1,2-Dichloroethene(Total)		0.00	0.180	100	104	104	74 - 128	103	103	1	30
78-87-5	1,2-Dichloropropane		0.00	0.150	50.0	51.0	102	81 - 120	50.9	102	0.2	11

GC/MS Volatiles Quality Control Summary

Analytical Batch 493526		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21210241305			21210241306			21210241307		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	10/31/2012 13:23			10/31/2012 15:10			10/31/2012 15:31		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
108-67-8	1,3,5-Trimethylbenzene		0.00	0.066	50.0	48.5	97	83 - 123	47.8	96	1	10
541-73-1	1,3-Dichlorobenzene		0.00	0.138	50.0	47.8	96	86 - 115	47.4	95	0.8	9
142-28-9	1,3-Dichloropropane		0.00	0.059	50.0	52.2	104	81 - 113	52.3	105	0.2	11
106-46-7	1,4-Dichlorobenzene		0.00	0.083	50.0	47.0	94	87 - 113	46.5	93	1	10
594-20-7	2,2-Dichloropropane		0.00	0.170	50.0	51.9	104	77 - 138	50.3	101	3	12
78-93-3	2-Butanone		0.00	0.142	50.0	52.6	105	61 - 127	53.0	106	0.8	13
95-49-8	2-Chlorotoluene		0.00	0.080	50.0	48.5	97	81 - 121	47.8	96	1	10
591-78-6	2-Hexanone		0.00	0.122	50.0	59.4	119	58 - 125	61.1	122	3	14
106-43-4	4-Chlorotoluene		0.00	0.124	50.0	48.0	96	84 - 120	47.3	95	1	10
99-87-6	4-Isopropyltoluene		0.00	0.070	50.0	48.4	97	83 - 125	47.5	95	2	9
108-10-1	4-Methyl-2-pentanone		0.00	0.120	50.0	63.1	**126***	62 - 125	65.3	**131***	3	13
67-64-1	Acetone		1.47	0.193	50.0	36.0	69	59 - 134	37.0	71	3	14
71-43-2	Benzene		0.00	0.111	50.0	50.0	100	83 - 124	50.0	100	0	11
108-86-1	Bromobenzene		0.00	0.145	50.0	47.8	96	83 - 115	47.4	95	0.8	10
74-97-5	Bromochloromethane		0.00	0.127	50.0	52.0	104	78 - 112	52.3	105	0.6	10
75-27-4	Bromodichloromethane		0.00	0.083	50.0	53.4	107	76 - 116	53.2	106	0.4	10
75-25-2	Bromoform		0.00	0.215	50.0	54.6	109	68 - 128	55.0	110	0.7	11
74-83-9	Bromomethane		0.00	0.427	50.0	36.9	74	55 - 151	39.3	79	6	21
75-15-0	Carbon disulfide		0.00	0.190	50.0	48.8	98	67 - 147	46.0	92	6	12
56-23-5	Carbon tetrachloride		0.00	0.248	50.0	51.1	102	74 - 139	50.2	100	2	13
108-90-7	Chlorobenzene		0.00	0.083	50.0	50.3	101	87 - 115	49.4	99	2	9
75-00-3	Chloroethane		0.00	0.235	50.0	47.6	95	54 - 166	49.7	99	4	20
67-66-3	Chloroform		0.621	0.155	50.0	50.9	101	85 - 123	51.3	101	0.8	10
74-87-3	Chloromethane		2.61	0.144	50.0	45.2	85	55 - 173	45.5	86	0.7	22
124-48-1	Dibromochloromethane		0.00	0.054	50.0	54.0	108	74 - 116	54.1	108	0.2	11
74-95-3	Dibromomethane		0.00	0.211	50.0	51.6	103	81 - 116	52.1	104	1	10
75-71-8	Dichlorodifluoromethane		0.00	0.145	50.0	48.0	96	34 - 158	46.7	93	3	22
100-41-4	Ethylbenzene		0.00	0.109	50.0	50.9	102	87 - 118	49.5	99	3	10
87-68-3	Hexachlorobutadiene		0.00	0.265	50.0	49.6	99	71 - 133	49.0	98	1	12
98-82-8	Isopropylbenzene (Cumene)		0.00	0.130	50.0	50.3	101	87 - 131	50.0	100	0.6	10
74-88-4	Methyl iodide		0.00	0.084	50.0	48.0	96	72 - 125	48.1	96	0.2	11
75-09-2	Methylene chloride		0.00	0.149	50.0	46.0	92	69 - 125	46.0	92	0	11
91-20-3	Naphthalene		0.00	0.176	50.0	51.8	104	59 - 125	54.0	108	4	15

GC/MS Volatiles Quality Control Summary

Analytical Batch 493526		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21210241305			21210241306			21210241307		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	10/31/2012 13:23			10/31/2012 15:10			10/31/2012 15:31		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-42-5	Styrene		0.00	0.089	50.0	51.3	103	78 - 118	50.6	101	1	11
127-18-4	Tetrachloroethene		0.00	0.193	50.0	50.2	100	80 - 131	49.2	98	2	12
108-88-3	Toluene		0.00	0.122	50.0	48.4	97	86 - 116	47.7	95	1	10
79-01-6	Trichloroethene		0.00	0.161	50.0	50.8	102	85 - 124	49.6	99	2	10
75-69-4	Trichlorofluoromethane		0.00	0.157	50.0	51.1	102	66 - 156	50.2	100	2	15
76-13-1	Trichlorotrifluoroethane		0.00	0.158	50.0	48.7	97	74 - 139	46.7	93	4	13
75-01-4	Vinyl chloride		0.00	0.127	50.0	49.8	100	57 - 153	48.3	97	3	22
1330-20-7	Xylene (total)		0.00	0.179	150	149	99	74 - 127	148	99	0.7	30
156-59-2	cis-1,2-Dichloroethene		0.00	0.103	50.0	52.3	105	81 - 114	52.1	104	0.4	10
10061-01-5	cis-1,3-Dichloropropene		0.00	0.124	50.0	54.1	108	83 - 119	53.1	106	2	10
136777-61-2	m,p-Xylene		0.00	0.123	100	98.5	99	83 - 121	97.8	98	0.7	10
104-51-8	n-Butylbenzene		0.00	0.123	50.0	49.4	99	84 - 124	48.7	97	1	10
103-65-1	n-Propylbenzene		0.00	0.727	50.0	48.1	96	86 - 125	47.1	94	2	10
95-47-6	o-Xylene		0.00	0.055	50.0	50.8	102	83 - 121	50.1	100	1	10
135-98-8	sec-Butylbenzene		0.00	0.107	50.0	48.8	98	86 - 127	47.8	96	2	10
1634-04-4	tert-Butyl methyl ether (MTBE)		0.00	0.078	50.0	51.8	104	75 - 116	51.8	104	0	10
98-06-6	tert-Butylbenzene		0.00	0.087	50.0	49.7	99	83 - 126	48.7	97	2	10
156-60-5	trans-1,2-Dichloroethene		0.00	0.077	50.0	52.0	104	82 - 126	50.7	101	3	10
10061-02-6	trans-1,3-Dichloropropene		0.00	0.128	50.0	53.7	107	87 - 123	54.2	108	0.9	10
110-57-6	trans-1,4-Dichloro-2-butene		0.00	0.264	50.0	56.8	114	51 - 137	57.6	115	1	24
Surrogate												
460-00-4	4-Bromofluorobenzene		50.5	101	50	50.6	101	84 - 120	50.8	102		
1868-53-7	Dibromofluoromethane		50	100	50	50.5	101	87 - 116	50.8	102		
2037-26-5	Toluene d8		50.4	101	50	50.1	100	86 - 112	50.2	100		
17060-07-0	1,2-Dichloroethane-d4		50.6	101	50	50	100	76 - 127	50	100		

Inorganics Quality Control Summary

Analytical Batch	493483	**Client ID**	MB493011	LCS493011
Prep Batch	493011	**GCAL ID**	1120684	1120685
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	10/24/2012 13:00	10/24/2012 13:00
		Analytical Date	10/31/2012 14:27	10/31/2012 14:28
		Matrix	Water	Water

SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000068U	0.000068	0.00500	0.00466	93	80 - 120

Analytical Batch	493483	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	493011	**GCAL ID**	21210241305	21210241306	21210241307
Prep Method	SW-846 7470A	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	10/24/2012 13:00	10/24/2012 13:00	10/24/2012 13:00
		Analytical Date	10/31/2012 14:30	10/31/2012 14:35	10/31/2012 14:36
		Matrix	Water	Water	Water

SW-846 7470A Water		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.000068	0.00500	0.00354	**71***	75 - 125	0.00359	**72***	1	20

Inorganics Quality Control Summary

Analytical Batch	493090	**Client ID**	MB493010	LCS493010
Prep Batch	493010	**GCAL ID**	1120682	1120683
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	10/24/2012 13:00	10/24/2012 13:00
		Analytical Date	10/25/2012 18:53	10/25/2012 19:15
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.030U	0.030	5.00	4.67	93	87 - 111
7440-36-0	Antimony	0.0031U	0.0031	0.50	0.46	91	88 - 108
7440-38-2	Arsenic	0.0036U	0.0036	0.50	0.45	90	88 - 109
7440-39-3	Barium	0.00071U	0.00071	0.50	0.47	93	92 - 112
7440-41-7	Beryllium	0.00072J	0.00010	0.50	0.46	92	89 - 113
7440-43-9	Cadmium	0.00016U	0.00016	0.50	0.47	94	88 - 111
7440-70-2	Calcium	0.046U	0.046	5.00	4.50	90	90 - 111
7440-47-3	Chromium	0.0022J	0.00026	0.50	0.47	93	90 - 113
7440-48-4	Cobalt	0.00067J	0.00058	0.50	0.47	94	89 - 111
7440-50-8	Copper	0.0010U	0.0010	0.50	0.45	90	86 - 112
7439-89-6	Iron	0.013U	0.013	5.00	4.98	100	89 - 116
7439-92-1	Lead	0.0020U	0.0020	0.50	0.47	95	89 - 109
7439-95-4	Magnesium	0.016U	0.016	5.00	4.88	98	92 - 113
7439-96-5	Manganese	0.0013U	0.0013	0.50	0.47	94	90 - 110
7440-02-0	Nickel	0.0011U	0.0011	0.50	0.47	95	89 - 111
7440-09-7	Potassium	0.0035U	0.0035	10.0	9.85	98	89 - 114
7782-49-2	Selenium	0.0044U	0.0044	0.50	0.47	95	90 - 110
7440-22-4	Silver	0.00070U	0.00070	0.50	0.47	94	86 - 120
7440-23-5	Sodium	0.061U	0.061	20.0	18.6	93	90 - 117
7440-28-0	Thallium	0.0030U	0.0030	0.50	0.49	99	88 - 108
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.47	93	91 - 111
7440-66-6	Zinc	0.0045U	0.0045	0.50	0.48	97	84 - 111

Inorganics Quality Control Summary

Analytical Batch	493090	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	493010	**GCAL ID**	21210241305	21210241306	21210241307
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	10/24/2012 13:00	10/24/2012 13:00	10/24/2012 13:00
		Analytical Date	10/25/2012 19:22	10/25/2012 19:29	10/25/2012 19:35
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.030	5.00	4.76	95	83 - 119	4.53	91	5	25
7440-36-0	Antimony	0.0095	0.0031	0.50	0.51	101	81 - 124	0.49	95	5	25
7440-38-2	Arsenic	0.013	0.0036	0.50	0.55	108	84 - 124	0.52	101	6	25
7440-39-3	Barium	0.0061	0.00071	0.50	0.45	88	85 - 120	0.43	86	3	25
7440-41-7	Beryllium	0.00027	0.00010	0.50	0.43	86	79 - 121	0.42	83	3	25
7440-43-9	Cadmium	0.0	0.00016	0.50	0.41	83	82 - 119	0.41	**81***	2	25
7440-70-2	Calcium	479	0.046	5.00	494	**299***	48 - 153	455	**-500***	8	25
7440-47-3	Chromium	0.021	0.00026	0.50	0.45	86	73 - 135	0.43	83	3	25
7440-48-4	Cobalt	0.00069	0.00058	0.50	0.41	**81***	82 - 119	0.40	**80***	2	25
7440-50-8	Copper	0.0050	0.0010	0.50	0.49	97	82 - 129	0.47	92	5	25
7439-92-1	Lead	0.0	0.0020	0.50	0.40	80	62 - 146	0.38	76	5	25
7439-95-4	Magnesium	753	0.016	5.00	771	**365***	62 - 146	704	**-1000***	9	25
7439-96-5	Manganese	0.0	0.0013	0.50	0.43	86	79 - 121	0.42	84	3	25
7440-02-0	Nickel	0.0	0.0011	0.50	0.39	**78***	84 - 120	0.38	**76***	2	25
7440-09-7	Potassium	31.9	0.0035	10.0	48.6	**167***	76 - 132	44.7	127	9	25
7782-49-2	Selenium	0.0	0.0044	0.50	0.54	109	71 - 140	0.52	104	5	25
7440-22-4	Silver	0.0	0.00070	0.50	0.53	106	75 - 141	0.50	101	5	25
7440-28-0	Thallium	0.0037	0.0030	0.50	0.39	**78***	90 - 116	0.37	**74***	5	25
7440-62-2	Vanadium	0.037	0.0012	0.50	0.51	95	85 - 120	0.49	90	5	25
7440-66-6	Zinc	0.0	0.0045	0.50	0.49	98	60 - 137	0.48	95	3	25

Analytical Batch	493242	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	493010	**GCAL ID**	21210241305	21210241306	21210241307
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	10/24/2012 13:00	10/24/2012 13:00	10/24/2012 13:00
		Analytical Date	10/26/2012 17:00	10/26/2012 17:08	10/26/2012 17:14
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-89-6	Iron	0.0	0.013	5.00	4.60	92	52 - 155	4.47	89	3	25

Inorganics Quality Control Summary

Analytical Batch	493242	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	493010	**GCAL ID**	21210241305	21210241306	21210241307
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	10/24/2012 13:00	10/24/2012 13:00	10/24/2012 13:00
		Analytical Date	10/26/2012 15:24	10/26/2012 15:31	10/26/2012 15:39
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7440-23-5	Sodium	4220	0.61	20.0	4300	**396***	70 - 203	4000	**-1000***	7	25

General Chemistry Quality Control Summary

Analytical Batch 493039	**Client ID**	MB493039			LCS493039		
Prep Batch N/A	**GCAL ID**	1120824			1120825		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/24/2012 15:45			10/24/2012 15:45		
	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	959	95.9	90 - 110

Analytical Batch 493039	**Client ID**	MW-08-06		1120643DUP		
Prep Batch N/A	**GCAL ID**	21210241305		1120826		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/24/2012 15:45		10/24/2012 15:45		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	19750	7.00	19500	1.1	5

General Chemistry Quality Control Summary

Analytical Batch 493033	**Client ID**	MB493033			LCS493033		
Prep Batch N/A	**GCAL ID**	1120816			1120817		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/24/2012 23:23			10/25/2012 15:08		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.015U	0.015	2.50	2.74	110	80 - 120
14797-55-8	Nitrate	0.115U	0.115	2.50	2.53	101	80 - 120

Analytical Batch 493033	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD			
Prep Batch N/A	**GCAL ID**	21210241305			21210241306			21210241307			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/25/2012 00:51			10/25/2012 01:08			10/25/2012 01:26			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	15.2	1.15	25.0	41.0	103	75 - 125	41.6	105	1.5	25

Analytical Batch 493033	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD			
Prep Batch N/A	**GCAL ID**	21210241305			21210241306			21210241307			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/25/2012 11:01			10/25/2012 11:19			10/25/2012 11:36			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.750	125	151	121	75 - 125	149	120	0.92	25

Analytical Batch 493727	**Client ID**	MB493727			LCS493727		
Prep Batch N/A	**GCAL ID**	1124038			1124039		
	Sample Type	Method Blank			LCS		
	Analytical Date	11/02/2012 16:46			11/02/2012 17:04		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.063U	0.063	2.50	2.42	96.9	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 493727	**Client ID**	MB493727			LCS493727		
Prep Batch N/A	**GCAL ID**	1124038			1124039		
	Sample Type	Method Blank			LCS		
	Analytical Date	11/02/2012 16:46			11/02/2012 17:04		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16984-48-8	Fluoride	0.018U	0.018	2.5	2.07	82.8	80 - 120
14808-79-8	Sulfate	0.115U	0.115	5.00	4.88	97.7	80 - 120

Analytical Batch 493727	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD			
Prep Batch N/A	**GCAL ID**	21210241305			21210241306			21210241307			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	11/03/2012 00:24			11/03/2012 00:42			11/03/2012 01:00			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16984-48-8	Fluoride	0.465	0.180	25.0	16.4	**63.6***	75 - 125	16.3	**63.3***	0.35	25

Analytical Batch 493727	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD			
Prep Batch N/A	**GCAL ID**	21210241305			21210241306			21210241307			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	11/02/2012 22:56			11/02/2012 23:49			11/03/2012 00:07			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	5860	315	12500	18400	100	75 - 125	18500		0.64	25
14808-79-8	Sulfate	7070	575	25000	32500	102	75 - 125	32900		1.2	25

NATIONVIEW /4771/212102413/11-02-2012

Page: 1 of 1

NV Project No: 10-0004

COC Number(1): 10-23-2012-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q4)

Client Name: USACE - Omaha District

Collected by: Brian Parrish / Bernard Wolfe

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Fluoride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
MW-08-08	MW-08-08	10/22/2012	1630	-	N	1	WG	7	X	X	X	X	X					1	01
MW-08-02	MW-08-02	10/23/2012	1020	-	N	1	WG	7	X	X	X	X	X					1	02
MW-08-03	MW-08-03	10/23/2012	0840	-	N	1	WG	7	X	X	X	X	X					1	03
Trip Blank #1		10/22/2012			TB	1	WQ	3	X								HA 2167040	1	04
MW-08-06	MW-08-06	10/23/2012	0940		N	1	WG	7	X	X	X	X	X	X				2	05
MW-08-06-MS	MW-08-06-MS	10/23/2012	0940	-	MS	1	WG	7	X	X	X	X	X					2	06
MW-08-06-MSD	MW-08-06-MSD	10/23/2012	0940	-	SD	1	WG	7	X	X	X	X	X					2	07
Trip Blank #2		10/23/2012		-	TB	1	WQ	3	X								HA 2167040	2	08
S10-MW06	S10-MW06	10/23/2012	0845	-	N	1	WG	7	X	X	X	X	X					3	09
MW-08-04	MW-08-04	10/23/2012	1110	-	N	1	WG	7	X	X	X	X	X					3	10
Trip Blank #3		10/23/2012		-	TB	1	WQ	3	X								HA 2251040	3	11

COMMENTS: Dissolved TAL Metals filtered in the field

1939 0731 4228
1939 0716 8152
1939 0717 8286

16.19.23

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	10/23/2012	1530	1. Fedex		
2. FED EX			2. [signature]	10-24-12	1000
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

SAMPLE DELIVERY GROUP	212102413
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile 204817 - Holloman AFB	**Received By** McCune, Odie
Line Item(s) 3 - SD-08	**Receive Date(s)** 10/24/12

CHECKLIST			
Were all samples received using proper thermal preservation?	☑ Yes	☐ No	☐ NA
When used, were all custody seals intact?	☑ Yes	☐ No	☐ NA
Were all samples received in proper containers?	☑ Yes	☐ No	☐ NA
Were all samples received using proper chemical preservation?	☑ Yes	☐ No	☐ NA
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ NA
Were all containers received in good condition?	☑ Yes	☐ No	☐ NA
Were all VOA vials received with no head space?	☐ Yes	☑ No	☐ NA
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ NA
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ NA
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑ Yes	☐ No	☐ NA

COOLERS

Airbill	Temp(oC)
7939 0731 4228	1.6
7939 0716 8152	1.9
7939 0714 8286	2.3

DISCREPANCIES

None

LABORATORY PRESERVATIONS

None

NOTES

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 11/06/2012

GCAL Report 212102501

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB

CASE NARRATIVE

Client: NationView LLC **Report:** 212102501

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

In the SW-846 6010B Dissolved analysis, several samples had to be diluted in order to bracket the concentration of Sodium within the linear dynamic range of the instrument.

In the SW-846 6010B Dissolved analysis for prep batch 493145, 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 MS and/or MSD recovery is outside the control limits for Potassium and Thallium. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

CONVENTIONALS

In the EPA 300.0 analysis, samples 21210250105 (MW-08-01), 21210250106 (SWMU183-MW03), 21210250107 (S10-MW01), 21210250103 (MW-08-07-A), 21210250101 (MW-08-05), 21210250108 (S10-MW01-A) and 21210250102 (MW-08-07) had to be diluted in order to bracket the concentration within the calibration range of the instrument.

In the EPA 300.0 analysis, a chemical or physical interference necessitated a dilution for samples 21210250101 (MW-08-05), 21210250105 (MW-08-01), 21210250103 (MW-08-07-A), 21210250102 (MW-08-07), 21210250106 (SWMU183-MW03), 21210250107 (S10-MW01) and 21210250108 (S10-MW01-A). This is reflected in the elevated reporting limit.

In the EPA 300.0 analysis for analytical batch 493033, the MS/MSD recovery was outside the control limits for Nitrite. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by a matrix interference.

In the EPA 300.0 analysis for analytical batch 493727, the MS/MSD recovery was outside the control limits for Fluoride. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by a matrix interference.

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
Technical Director
GCAL REPORT 212102501

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250101	MW-08-05	Water	10/23/2012 12:10	10/25/2012 09:40
21210250102	MW-08-07	Water	10/23/2012 14:40	10/25/2012 09:40
21210250103	MW-08-07-A	Water	10/23/2012 14:40	10/25/2012 09:40
21210250104	TRIP BLANK 4	Water	10/23/2012 00:00	10/25/2012 09:40
21210250105	MW-08-01	Water	10/23/2012 12:20	10/25/2012 09:40
21210250106	SWMU183-MW03	Water	10/23/2012 17:05	10/25/2012 09:40
21210250107	S10-MW01	Water	10/24/2012 08:30	10/25/2012 09:40
21210250108	S10-MW01-A	Water	10/24/2012 08:30	10/25/2012 09:40
21210250109	TRIP BLANK 5	Water	10/23/2012 00:00	10/25/2012 09:40

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250101	**MW-08-05**	Water	10/23/2012 12:10	10/25/2012 09:40

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00023	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.0074J	0.060	0.0031	mg/L
7440-38-2	Arsenic	0.015	0.010	0.0036	mg/L
7440-39-3	Barium	0.015	0.010	0.00071	mg/L
7440-70-2	Calcium	628	0.10	0.046	mg/L
7440-47-3	Chromium	0.0019J	0.010	0.00026	mg/L
7440-48-4	Cobalt	0.0015J	0.010	0.00058	mg/L
7440-50-8	Copper	0.0021J	0.010	0.0010	mg/L
7439-92-1	Lead	0.043	0.015	0.0020	mg/L
7439-95-4	Magnesium	66.6	0.10	0.016	mg/L
7439-96-5	Manganese	0.023	0.015	0.0013	mg/L
7440-09-7	Potassium	7.92	0.50	0.0035	mg/L
7440-23-5	Sodium	46.1	1.00	0.061	mg/L
7440-62-2	Vanadium	0.017J	0.020	0.0012	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2930	10.0	7.00	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	22.6	1.00	0.630	mg/L
16984-48-8	Fluoride	4.19	1.00	0.180	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	Sulfate	1640	100	57.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250102	**MW-08-07**	Water	10/23/2012 14:40	10/25/2012 09:40

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00013J	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.0098J	0.060	0.0031	mg/L
7440-38-2	Arsenic	0.066	0.010	0.0036	mg/L
7440-39-3	Barium	0.010	0.010	0.00071	mg/L
7440-70-2	Calcium	628	0.10	0.046	mg/L
7440-47-3	Chromium	0.0055J	0.010	0.00026	mg/L
7440-48-4	Cobalt	0.0046J	0.010	0.00058	mg/L
7440-50-8	Copper	0.0023J	0.010	0.0010	mg/L
7439-95-4	Magnesium	197	0.10	0.016	mg/L
7439-96-5	Manganese	1.49	0.015	0.0013	mg/L
7440-09-7	Potassium	6.23	0.50	0.0035	mg/L
7440-23-5	Sodium	477	1.00	0.061	mg/L
7440-62-2	Vanadium	0.016J	0.020	0.0012	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.701J	2.50	0.575	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	4780	10.0	7.00	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	69.6	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	1.65J	5.00	0.150	ug/L
67-64-1	Acetone	1.77J	5.00	0.193	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	2.48	0.500	0.090	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	485	50.0	31.5	mg/L
14808-79-8	Sulfate	2300	100	57.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250103	**MW-08-07-A**	Water	10/23/2012 14:40	10/25/2012 09:40

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.0093J	0.060	0.0031	mg/L
7440-38-2	Arsenic	0.069	0.010	0.0036	mg/L
7440-39-3	Barium	0.010	0.010	0.00071	mg/L
7440-70-2	Calcium	635	0.10	0.046	mg/L
7440-47-3	Chromium	0.0062J	0.010	0.00026	mg/L
7440-48-4	Cobalt	0.0052J	0.010	0.00058	mg/L
7440-50-8	Copper	0.0014J	0.010	0.0010	mg/L
7439-95-4	Magnesium	199	0.10	0.016	mg/L
7439-96-5	Manganese	1.51	0.015	0.0013	mg/L
7440-09-7	Potassium	6.11	0.50	0.0035	mg/L
7440-23-5	Sodium	460	1.00	0.061	mg/L
7440-62-2	Vanadium	0.014J	0.020	0.0012	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00019J	0.00020	0.000068	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	4660	10.0	7.00	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.765J	2.50	0.575	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	67.9	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	1.60J	5.00	0.150	ug/L
67-64-1	Acetone	1.67J	5.00	0.193	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	2.94	1.00	0.180	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	469	50.0	31.5	mg/L
14808-79-8	Sulfate	2240	100	57.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250104	**TRIP BLANK 4**	Water	10/23/2012 00:00	10/25/2012 09:40

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.30J	5.00	0.193	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250105	**MW-08-01**	Water	10/23/2012 12:20	10/25/2012 09:40

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00020	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.011J	0.060	0.0031	mg/L
7440-39-3	Barium	0.012	0.010	0.00071	mg/L
7440-70-2	Calcium	520	0.10	0.046	mg/L
7440-47-3	Chromium	0.019	0.010	0.00026	mg/L
7440-50-8	Copper	0.0038J	0.010	0.0010	mg/L
7439-89-6	Iron	5.52	0.10	0.013	mg/L
7439-95-4	Magnesium	649	0.10	0.016	mg/L
7439-96-5	Manganese	1.66	0.015	0.0013	mg/L
7440-09-7	Potassium	6.40	0.50	0.0035	mg/L
7440-62-2	Vanadium	0.0035J	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1740	5.00	0.31	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9750	10.0	7.00	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	29.3	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	5.58	5.00	0.150	ug/L
67-64-1	Acetone	6.87	5.00	0.193	ug/L
98-06-6	tert-Butylbenzene	0.806J	5.00	0.087	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	3.38	0.500	0.090	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250105	**MW-08-01**	Water	10/23/2012 12:20	10/25/2012 09:40

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	563	100	63.0	mg/L
14808-79-8	Sulfate	5780	200	115	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250106	**SWMU183-MW03**	Water	10/23/2012 17:05	10/25/2012 09:40

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00017J	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.0087J	0.060	0.0031	mg/L
7440-38-2	Arsenic	0.012	0.010	0.0036	mg/L
7440-39-3	Barium	0.0093J	0.010	0.00071	mg/L
7440-70-2	Calcium	523	0.10	0.046	mg/L
7440-47-3	Chromium	0.0073J	0.010	0.00026	mg/L
7440-48-4	Cobalt	0.0015J	0.010	0.00058	mg/L
7440-50-8	Copper	0.0037J	0.010	0.0010	mg/L
7439-95-4	Magnesium	199	0.10	0.016	mg/L
7439-96-5	Manganese	0.80	0.015	0.0013	mg/L
7440-09-7	Potassium	7.33	0.50	0.0035	mg/L
7440-62-2	Vanadium	0.024	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	972	5.00	0.31	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	6330	10.0	7.00	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	47.9	10.0	2.30	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.18J	5.00	0.193	ug/L
74-83-9	Bromomethane	3.52J	5.00	0.427	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250106	**SWMU183-MW03**	Water	10/23/2012 17:05	10/25/2012 09:40

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1010	100	63.0	mg/L
14808-79-8	Sulfate	2960	200	115	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	1.44J	2.00	0.360	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250107	**S10-MW01**	Water	10/24/2012 08:30	10/25/2012 09:40

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.0099J	0.060	0.0031	mg/L
7440-38-2	Arsenic	0.018	0.010	0.0036	mg/L
7440-39-3	Barium	0.0065J	0.010	0.00071	mg/L
7440-70-2	Calcium	540	0.10	0.046	mg/L
7440-47-3	Chromium	0.020	0.010	0.00026	mg/L
7440-48-4	Cobalt	0.0019J	0.010	0.00058	mg/L
7440-50-8	Copper	0.0078J	0.010	0.0010	mg/L
7439-95-4	Magnesium	665	0.10	0.016	mg/L
7439-96-5	Manganese	0.21	0.015	0.0013	mg/L
7440-09-7	Potassium	28.4	0.50	0.0035	mg/L
7440-62-2	Vanadium	0.055	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	3600	10.0	0.61	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00016J	0.00020	0.000068	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	15300	10.0	7.00	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.28J	10.0	2.30	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250107	**S10-MW01**	Water	10/24/2012 08:30	10/25/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	15.6	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	0.582J	5.00	0.150	ug/L
67-64-1	Acetone	1.14J	5.00	0.193	ug/L
79-01-6	Trichloroethene	2.16J	5.00	0.161	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	1.83J	2.00	0.360	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3770	200	126	mg/L
14808-79-8	Sulfate	5790	400	230	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250108	**S10-MW01-A**	Water	10/24/2012 08:30	10/25/2012 09:40

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00023	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.0083J	0.060	0.0031	mg/L
7440-38-2	Arsenic	0.022	0.010	0.0036	mg/L
7440-39-3	Barium	0.0052J	0.010	0.00071	mg/L
7440-70-2	Calcium	495	0.10	0.046	mg/L
7440-47-3	Chromium	0.018	0.010	0.00026	mg/L
7440-48-4	Cobalt	0.0017J	0.010	0.00058	mg/L
7440-50-8	Copper	0.0075J	0.010	0.0010	mg/L
7439-95-4	Magnesium	575	0.10	0.016	mg/L
7439-96-5	Manganese	0.20	0.015	0.0013	mg/L
7440-09-7	Potassium	24.9	0.50	0.0035	mg/L
7440-62-2	Vanadium	0.050	0.020	0.0012	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2970	10.0	0.61	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250108	**S10-MW01-A**	Water	10/24/2012 08:30	10/25/2012 09:40

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	15700	10.0	7.00	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.48J	10.0	2.30	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	15.4	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	0.566J	5.00	0.150	ug/L
79-01-6	Trichloroethene	2.04J	5.00	0.161	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	1.69J	2.00	0.360	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	4180	200	126	mg/L
14808-79-8	Sulfate	6010	400	230	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250109	**TRIP BLANK 5**	Water	10/23/2012 00:00	10/25/2012 09:40

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.84J	5.00	0.193	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250101	**MW-08-05**	Water	10/23/2012 12:10	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 22:39	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250101	**MW-08-05**	Water	10/23/2012 12:10	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 22:39	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.3	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	49.9	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493152	SW-846 7470A Dissolved	1	10/31/2012 12:15	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493151	SW-846 7470A	1	10/29/2012 12:15	BNB	493321

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00023**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250101	**MW-08-05**	Water	10/23/2012 12:10	10/25/2012 09:40

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 10:20	493145	SW-846 3005 Dissolved	1	11/03/2012 15:42	CLB	493803

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.030U	0.20	0.030	mg/L
7440-36-0	**Antimony**	**0.0074J**	**0.060**	**0.0031**	**mg/L**
7440-38-2	**Arsenic**	**0.015**	**0.010**	**0.0036**	**mg/L**
7440-39-3	**Barium**	**0.015**	**0.010**	**0.00071**	**mg/L**
7440-41-7	Beryllium	0.00010U	0.0050	0.00010	mg/L
7440-43-9	Cadmium	0.00016U	0.0050	0.00016	mg/L
7440-70-2	**Calcium**	**628**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.0019J**	**0.010**	**0.00026**	**mg/L**
7440-48-4	**Cobalt**	**0.0015J**	**0.010**	**0.00058**	**mg/L**
7440-50-8	**Copper**	**0.0021J**	**0.010**	**0.0010**	**mg/L**
7439-89-6	Iron	0.013U	0.10	0.013	mg/L
7439-92-1	**Lead**	**0.043**	**0.015**	**0.0020**	**mg/L**
7439-95-4	**Magnesium**	**66.6**	**0.10**	**0.016**	**mg/L**
7439-96-5	**Manganese**	**0.023**	**0.015**	**0.0013**	**mg/L**
7440-02-0	Nickel	0.0011U	0.040	0.0011	mg/L
7440-09-7	**Potassium**	**7.92**	**0.50**	**0.0035**	**mg/L**
7782-49-2	Selenium	0.0044U	0.040	0.0044	mg/L
7440-22-4	Silver	0.00070U	0.010	0.00070	mg/L
7440-23-5	**Sodium**	**46.1**	**1.00**	**0.061**	**mg/L**
7440-28-0	Thallium	0.0030U	0.020	0.0030	mg/L
7440-62-2	**Vanadium**	**0.017J**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0045U	0.020	0.0045	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/25/2012 13:40	DJH	493113

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2930**	**10.0**	**7.00**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	10/25/2012 11:54	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.575U	2.50	0.575	mg/L
14797-65-0	Nitrite	0.075U	2.50	0.075	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/03/2012 04:14	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**22.6**	**1.00**	**0.630**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250101	**MW-08-05**	Water	10/23/2012 12:10	10/25/2012 09:40

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/03/2012 04:14	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**4.19**	**1.00**	**0.180**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	11/03/2012 04:31	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**1640**	**100**	**57.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250102	**MW-08-07**	Water	10/23/2012 14:40	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 23:01	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**69.6**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**1.65J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.77J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250102	**MW-08-07**	Water	10/23/2012 14:40	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 23:01	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.3	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.4	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493152	SW-846 7470A Dissolved	1	10/31/2012 12:16	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493151	SW-846 7470A	1	10/29/2012 12:17	BNB	493321

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00013J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250102	**MW-08-07**	Water	10/23/2012 14:40	10/25/2012 09:40

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 10:20	493145	SW-846 3005 Dissolved	1	11/03/2012 16:03	CLB	493803

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.030U	0.20	0.030	mg/L
7440-36-0	**Antimony**	**0.0098J**	**0.060**	**0.0031**	**mg/L**
7440-38-2	**Arsenic**	**0.066**	**0.010**	**0.0036**	**mg/L**
7440-39-3	**Barium**	**0.010**	**0.010**	**0.00071**	**mg/L**
7440-41-7	Beryllium	0.00010U	0.0050	0.00010	mg/L
7440-43-9	Cadmium	0.00016U	0.0050	0.00016	mg/L
7440-70-2	**Calcium**	**628**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.0055J**	**0.010**	**0.00026**	**mg/L**
7440-48-4	**Cobalt**	**0.0046J**	**0.010**	**0.00058**	**mg/L**
7440-50-8	**Copper**	**0.0023J**	**0.010**	**0.0010**	**mg/L**
7439-89-6	Iron	0.013U	0.10	0.013	mg/L
7439-92-1	Lead	0.0020U	0.015	0.0020	mg/L
7439-95-4	**Magnesium**	**197**	**0.10**	**0.016**	**mg/L**
7439-96-5	**Manganese**	**1.49**	**0.015**	**0.0013**	**mg/L**
7440-02-0	Nickel	0.0011U	0.040	0.0011	mg/L
7440-09-7	**Potassium**	**6.23**	**0.50**	**0.0035**	**mg/L**
7782-49-2	Selenium	0.0044U	0.040	0.0044	mg/L
7440-22-4	Silver	0.00070U	0.010	0.00070	mg/L
7440-23-5	**Sodium**	**477**	**1.00**	**0.061**	**mg/L**
7440-28-0	Thallium	0.0030U	0.020	0.0030	mg/L
7440-62-2	**Vanadium**	**0.016J**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0045U	0.020	0.0045	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/25/2012 13:40	DJH	493113

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**4780**	**10.0**	**7.00**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	10/25/2012 12:47	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.701J**	**2.50**	**0.575**	**mg/L**
14797-65-0	Nitrite	0.075U	2.50	0.075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250102	**MW-08-07**	Water	10/23/2012 14:40	10/25/2012 09:40

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	11/03/2012 05:24	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**2.48**	**0.500**	**0.090**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	11/03/2012 05:42	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**485**	**50.0**	**31.5**	**mg/L**
14808-79-8	**Sulfate**	**2300**	**100**	**57.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250103	**MW-08-07-A**	Water	10/23/2012 14:40	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 23:22	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**67.9**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**1.60J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.67J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250103	**MW-08-07-A**	Water	10/23/2012 14:40	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 23:22	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.6	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493152	SW-846 7470A Dissolved	1	10/31/2012 12:18	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493151	SW-846 7470A	1	10/29/2012 12:19	BNB	493321

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00019J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250103	**MW-08-07-A**	Water	10/23/2012 14:40	10/25/2012 09:40

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 10:20	493145	SW-846 3005 Dissolved	1	11/03/2012 16:10	CLB	493803

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.030U	0.20	0.030	mg/L
7440-36-0	**Antimony**	**0.0093J**	**0.060**	**0.0031**	**mg/L**
7440-38-2	**Arsenic**	**0.069**	**0.010**	**0.0036**	**mg/L**
7440-39-3	**Barium**	**0.010**	**0.010**	**0.00071**	**mg/L**
7440-41-7	Beryllium	0.00010U	0.0050	0.00010	mg/L
7440-43-9	Cadmium	0.00016U	0.0050	0.00016	mg/L
7440-70-2	**Calcium**	**635**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.0062J**	**0.010**	**0.00026**	**mg/L**
7440-48-4	**Cobalt**	**0.0052J**	**0.010**	**0.00058**	**mg/L**
7440-50-8	**Copper**	**0.0014J**	**0.010**	**0.0010**	**mg/L**
7439-89-6	Iron	0.013U	0.10	0.013	mg/L
7439-92-1	Lead	0.0020U	0.015	0.0020	mg/L
7439-95-4	**Magnesium**	**199**	**0.10**	**0.016**	**mg/L**
7439-96-5	**Manganese**	**1.51**	**0.015**	**0.0013**	**mg/L**
7440-02-0	Nickel	0.0011U	0.040	0.0011	mg/L
7440-09-7	**Potassium**	**6.11**	**0.50**	**0.0035**	**mg/L**
7782-49-2	Selenium	0.0044U	0.040	0.0044	mg/L
7440-22-4	Silver	0.00070U	0.010	0.00070	mg/L
7440-23-5	**Sodium**	**460**	**1.00**	**0.061**	**mg/L**
7440-28-0	Thallium	0.0030U	0.020	0.0030	mg/L
7440-62-2	**Vanadium**	**0.014J**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0045U	0.020	0.0045	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/25/2012 13:40	DJH	493113

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**4660**	**10.0**	**7.00**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	10/25/2012 12:29	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.765J**	**2.50**	**0.575**	**mg/L**
14797-65-0	Nitrite	0.075U	2.50	0.075	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250103	**MW-08-07-A**	Water	10/23/2012 14:40	10/25/2012 09:40

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/03/2012 03:38	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**2.94**	**1.00**	**0.180**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	11/03/2012 03:56	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**469**	**50.0**	**31.5**	**mg/L**
14808-79-8	**Sulfate**	**2240**	**100**	**57.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250104	**TRIP BLANK 4**	Water	10/23/2012 00:00	10/25/2012 09:40

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 23:44	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.30J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250104	**TRIP BLANK 4**	Water	10/23/2012 00:00	10/25/2012 09:40

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/31/2012 23:44	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.8	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.8	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.7	ug/L	99	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250105	**MW-08-01**	Water	10/23/2012 12:20	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 00:05	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**29.3**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**5.58**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**6.87**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250105	**MW-08-01**	Water	10/23/2012 12:20	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 00:05	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	**tert-Butylbenzene**	**0.806J**	**5.00**	**0.087**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	48.9	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	48.8	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.1	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493152	SW-846 7470A Dissolved	1	10/31/2012 12:20	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493151	SW-846 7470A	1	10/29/2012 12:20	BNB	493321

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00020**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250105	**MW-08-01**	Water	10/23/2012 12:20	10/25/2012 09:40

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 10:20	493145	SW-846 3005 Dissolved	5	11/03/2012 14:31	CLB	493803

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1740**	**5.00**	**0.31**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 10:20	493145	SW-846 3005 Dissolved	1	11/03/2012 16:49	CLB	493803

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.030U	0.20	0.030	mg/L
7440-36-0	**Antimony**	**0.011J**	**0.060**	**0.0031**	**mg/L**
7440-38-2	Arsenic	0.0036U	0.010	0.0036	mg/L
7440-39-3	**Barium**	**0.012**	**0.010**	**0.00071**	**mg/L**
7440-41-7	Beryllium	0.00010U	0.0050	0.00010	mg/L
7440-43-9	Cadmium	0.00016U	0.0050	0.00016	mg/L
7440-70-2	**Calcium**	**520**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.019**	**0.010**	**0.00026**	**mg/L**
7440-48-4	Cobalt	0.00058U	0.010	0.00058	mg/L
7440-50-8	**Copper**	**0.0038J**	**0.010**	**0.0010**	**mg/L**
7439-89-6	**Iron**	**5.52**	**0.10**	**0.013**	**mg/L**
7439-92-1	Lead	0.0020U	0.015	0.0020	mg/L
7439-95-4	**Magnesium**	**649**	**0.10**	**0.016**	**mg/L**
7439-96-5	**Manganese**	**1.66**	**0.015**	**0.0013**	**mg/L**
7440-02-0	Nickel	0.0011U	0.040	0.0011	mg/L
7440-09-7	**Potassium**	**6.40**	**0.50**	**0.0035**	**mg/L**
7782-49-2	Selenium	0.0044U	0.040	0.0044	mg/L
7440-22-4	Silver	0.00070U	0.010	0.00070	mg/L
7440-28-0	Thallium	0.0030U	0.020	0.0030	mg/L
7440-62-2	**Vanadium**	**0.0035J**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0045U	0.020	0.0045	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/25/2012 13:40	DJH	493113

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**9750**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250105	**MW-08-01**	Water	10/23/2012 12:20	10/25/2012 09:40

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	10/25/2012 12:12	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.575U	2.50	0.575	mg/L
14797-65-0	Nitrite	0.075U	2.50	0.075	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	11/03/2012 01:17	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**3.38**	**0.500**	**0.090**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	11/03/2012 01:35	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**563**	**100**	**63.0**	**mg/L**
14808-79-8	**Sulfate**	**5780**	**200**	**115**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250106	**SWMU183-MW03**	Water	10/23/2012 17:05	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 00:27	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.18J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	**Bromomethane**	**3.52J**	**5.00**	**0.427**	**ug/L**
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250106	**SWMU183-MW03**	Water	10/23/2012 17:05	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 00:27	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.9	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.1	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493152	SW-846 7470A Dissolved	1	10/31/2012 12:21	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493151	SW-846 7470A	1	10/29/2012 12:22	BNB	493321

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00017J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250106	**SWMU183-MW03**	Water	10/23/2012 17:05	10/25/2012 09:40

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 10:20	493145	SW-846 3005 Dissolved	5	11/03/2012 14:10	CLB	493803

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**972**	**5.00**	**0.31**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 10:20	493145	SW-846 3005 Dissolved	1	11/03/2012 15:21	CLB	493803

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.030U	0.20	0.030	mg/L
7440-36-0	**Antimony**	**0.0087J**	**0.060**	**0.0031**	**mg/L**
7440-38-2	**Arsenic**	**0.012**	**0.010**	**0.0036**	**mg/L**
7440-39-3	**Barium**	**0.0093J**	**0.010**	**0.00071**	**mg/L**
7440-41-7	Beryllium	0.00010U	0.0050	0.00010	mg/L
7440-43-9	Cadmium	0.00016U	0.0050	0.00016	mg/L
7440-70-2	**Calcium**	**523**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.0073J**	**0.010**	**0.00026**	**mg/L**
7440-48-4	**Cobalt**	**0.0015J**	**0.010**	**0.00058**	**mg/L**
7440-50-8	**Copper**	**0.0037J**	**0.010**	**0.0010**	**mg/L**
7439-89-6	Iron	0.013U	0.10	0.013	mg/L
7439-92-1	Lead	0.0020U	0.015	0.0020	mg/L
7439-95-4	**Magnesium**	**199**	**0.10**	**0.016**	**mg/L**
7439-96-5	**Manganese**	**0.80**	**0.015**	**0.0013**	**mg/L**
7440-02-0	Nickel	0.0011U	0.040	0.0011	mg/L
7440-09-7	**Potassium**	**7.33**	**0.50**	**0.0035**	**mg/L**
7782-49-2	Selenium	0.0044U	0.040	0.0044	mg/L
7440-22-4	Silver	0.00070U	0.010	0.00070	mg/L
7440-28-0	Thallium	0.0030U	0.020	0.0030	mg/L
7440-62-2	**Vanadium**	**0.024**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0045U	0.020	0.0045	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/25/2012 13:40	DJH	493113

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**6330**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250106	**SWMU183-MW03**	Water	10/23/2012 17:05	10/25/2012 09:40

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	10/25/2012 13:05	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**47.9**	**10.0**	**2.30**	**mg/L**
14797-65-0	Nitrite	0.300U	10.0	0.300	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	11/03/2012 01:53	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**1.44J**	**2.00**	**0.360**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	11/03/2012 02:10	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**1010**	**100**	**63.0**	**mg/L**
14808-79-8	**Sulfate**	**2960**	**200**	**115**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250107	**S10-MW01**	Water	10/24/2012 08:30	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 00:48	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**15.6**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**0.582J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.14J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250107	**S10-MW01**	Water	10/24/2012 08:30	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 00:48	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	**Trichloroethene**	**2.16J**	**5.00**	**0.161**	**ug/L**
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.5	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.3	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.2	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493152	SW-846 7470A Dissolved	1	10/31/2012 12:23	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493151	SW-846 7470A	1	10/29/2012 12:24	BNB	493321

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00016J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250107	**S10-MW01**	Water	10/24/2012 08:30	10/25/2012 09:40

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 10:20	493145	SW-846 3005 Dissolved	10	11/03/2012 14:39	CLB	493803

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**3600**	**10.0**	**0.61**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 10:20	493145	SW-846 3005 Dissolved	1	11/03/2012 16:56	CLB	493803

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.030U	0.20	0.030	mg/L
7440-36-0	**Antimony**	**0.0099J**	**0.060**	**0.0031**	**mg/L**
7440-38-2	**Arsenic**	**0.018**	**0.010**	**0.0036**	**mg/L**
7440-39-3	**Barium**	**0.0065J**	**0.010**	**0.00071**	**mg/L**
7440-41-7	Beryllium	0.00010U	0.0050	0.00010	mg/L
7440-43-9	Cadmium	0.00016U	0.0050	0.00016	mg/L
7440-70-2	**Calcium**	**540**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.020**	**0.010**	**0.00026**	**mg/L**
7440-48-4	**Cobalt**	**0.0019J**	**0.010**	**0.00058**	**mg/L**
7440-50-8	**Copper**	**0.0078J**	**0.010**	**0.0010**	**mg/L**
7439-89-6	Iron	0.013U	0.10	0.013	mg/L
7439-92-1	Lead	0.0020U	0.015	0.0020	mg/L
7439-95-4	**Magnesium**	**665**	**0.10**	**0.016**	**mg/L**
7439-96-5	**Manganese**	**0.21**	**0.015**	**0.0013**	**mg/L**
7440-02-0	Nickel	0.0011U	0.040	0.0011	mg/L
7440-09-7	**Potassium**	**28.4**	**0.50**	**0.0035**	**mg/L**
7782-49-2	Selenium	0.0044U	0.040	0.0044	mg/L
7440-22-4	Silver	0.00070U	0.010	0.00070	mg/L
7440-28-0	Thallium	0.0030U	0.020	0.0030	mg/L
7440-62-2	**Vanadium**	**0.055**	**0.020**	**0.0012**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 10:20	493145	SW-846 3005 Dissolved	1	11/06/2012 13:20	BNB	493953

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	Zinc	0.0045U	0.020	0.0045	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/25/2012 13:40	DJH	493113

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**15300**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250107	**S10-MW01**	Water	10/24/2012 08:30	10/25/2012 09:40

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	10/25/2012 13:57	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**4.28J**	**10.0**	**2.30**	**mg/L**
14797-65-0	Nitrite	0.300U	10.0	0.300	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	11/03/2012 02:28	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3770**	**200**	**126**	**mg/L**
14808-79-8	**Sulfate**	**5790**	**400**	**230**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	11/03/2012 03:21	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**1.83J**	**2.00**	**0.360**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250108	**S10-MW01-A**	Water	10/24/2012 08:30	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 01:09	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**15.4**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**0.566J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250108	**S10-MW01-A**	Water	10/24/2012 08:30	10/25/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 01:09	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	**Trichloroethene**	**2.04J**	**5.00**	**0.161**	**ug/L**
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	50.5	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.2	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493152	SW-846 7470A Dissolved	1	10/31/2012 12:24	BNB	493483

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 11:20	493151	SW-846 7470A	1	10/29/2012 12:28	BNB	493321

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00023**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250108	**S10-MW01-A**	Water	10/24/2012 08:30	10/25/2012 09:40

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 10:20	493145	SW-846 3005 Dissolved	10	11/03/2012 14:46	CLB	493803

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2970**	**10.0**	**0.61**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/26/2012 10:20	493145	SW-846 3005 Dissolved	1	11/03/2012 17:04	CLB	493803

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.030U	0.20	0.030	mg/L
7440-36-0	**Antimony**	**0.0083J**	**0.060**	**0.0031**	**mg/L**
7440-38-2	**Arsenic**	**0.022**	**0.010**	**0.0036**	**mg/L**
7440-39-3	**Barium**	**0.0052J**	**0.010**	**0.00071**	**mg/L**
7440-41-7	Beryllium	0.00010U	0.0050	0.00010	mg/L
7440-43-9	Cadmium	0.00016U	0.0050	0.00016	mg/L
7440-70-2	**Calcium**	**495**	**0.10**	**0.046**	**mg/L**
7440-47-3	**Chromium**	**0.018**	**0.010**	**0.00026**	**mg/L**
7440-48-4	**Cobalt**	**0.0017J**	**0.010**	**0.00058**	**mg/L**
7440-50-8	**Copper**	**0.0075J**	**0.010**	**0.0010**	**mg/L**
7439-89-6	Iron	0.013U	0.10	0.013	mg/L
7439-92-1	Lead	0.0020U	0.015	0.0020	mg/L
7439-95-4	**Magnesium**	**575**	**0.10**	**0.016**	**mg/L**
7439-96-5	**Manganese**	**0.20**	**0.015**	**0.0013**	**mg/L**
7440-02-0	Nickel	0.0011U	0.040	0.0011	mg/L
7440-09-7	**Potassium**	**24.9**	**0.50**	**0.0035**	**mg/L**
7782-49-2	Selenium	0.0044U	0.040	0.0044	mg/L
7440-22-4	Silver	0.00070U	0.010	0.00070	mg/L
7440-28-0	Thallium	0.0030U	0.020	0.0030	mg/L
7440-62-2	**Vanadium**	**0.050**	**0.020**	**0.0012**	**mg/L**
7440-66-6	Zinc	0.0045U	0.020	0.0045	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/25/2012 13:40	DJH	493113

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**15700**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250108	**S10-MW01-A**	Water	10/24/2012 08:30	10/25/2012 09:40

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	10/25/2012 14:50	AEL	493033

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**4.48J**	**10.0**	**2.30**	**mg/L**
14797-65-0	Nitrite	0.300U	10.0	0.300	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	11/03/2012 04:49	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**1.69J**	**2.00**	**0.360**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	11/03/2012 05:06	AEL	493727

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**4180**	**200**	**126**	**mg/L**
14808-79-8	**Sulfate**	**6010**	**400**	**230**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250109	**TRIP BLANK 5**	Water	10/23/2012 00:00	10/25/2012 09:40

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 01:31	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.84J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210250109	**TRIP BLANK 5**	Water	10/23/2012 00:00	10/25/2012 09:40

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 01:31	LBH	493589

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.8	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.2	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 493589		**Client ID**	MB493589			LCS493589			LCSD493589		
Prep Batch N/A		**GCAL ID**	1123300			1123301			1123302		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/31/2012 21:56			10/31/2012 20:07			10/31/2012 20:28		
		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		0.193U	0.193	50.0	53.7	107	59 - 134	56.6	113	5	30
74-97-5	Bromochloromethane		0.127U	0.127	50.0	50.4	101	78 - 112	51.0	102	1	30
75-27-4	Bromodichloromethane		0.083U	0.083	50.0	51.8	104	76 - 116	52.1	104	0.6	30
75-25-2	Bromoform		0.215U	0.215	50.0	51.4	103	68 - 128	53.4	107	4	30
74-83-9	Bromomethane		0.427U	0.427	50.0	36.6	73	55 - 151	39.4	79	7	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	47.4	95	67 - 147	46.8	94	1	30
56-23-5	Carbon tetrachloride		0.248U	0.248	50.0	51.6	103	74 - 139	49.9	100	3	30
75-00-3	Chloroethane		0.235U	0.235	50.0	46.8	94	54 - 166	45.9	92	2	30
136777-61-2	m,p-Xylene		0.123U	0.123	100	99.3	99	83 - 121	97.1	97	2	30
67-66-3	Chloroform		0.155U	0.155	50.0	50.1	100	85 - 123	50.4	101	0.6	30
74-87-3	Chloromethane		0.144U	0.144	50.0	45.2	90	55 - 173	44.7	89	1	30
124-48-1	Dibromochloromethane		0.054U	0.054	50.0	52.4	105	74 - 116	53.7	107	2	30
74-95-3	Dibromomethane		0.211U	0.211	50.0	48.9	98	81 - 116	50.6	101	3	30
75-71-8	Dichlorodifluoromethane		0.145U	0.145	50.0	49.2	98	34 - 158	47.2	94	4	30
75-34-3	1,1-Dichloroethane		0.171U	0.171	50.0	51.8	104	82 - 127	51.3	103	1	30
107-06-2	1,2-Dichloroethane		0.116U	0.116	50.0	49.1	98	76 - 122	49.8	100	1	30
156-59-2	cis-1,2-Dichloroethene		0.103U	0.103	50.0	51.5	103	81 - 114	51.1	102	0.8	30
156-60-5	trans-1,2-Dichloroethene		0.077U	0.077	50.0	51.4	103	82 - 126	50.3	101	2	30
75-09-2	Methylene chloride		0.149U	0.149	50.0	44.7	89	69 - 125	45.1	90	0.9	30
78-87-5	1,2-Dichloropropane		0.150U	0.150	50.0	50.2	100	81 - 120	49.7	99	1	30
10061-01-5	cis-1,3-Dichloropropene		0.124U	0.124	50.0	52.5	105	83 - 119	53.1	106	1	30
10061-02-6	trans-1,3-Dichloropropene		0.128U	0.128	50.0	51.8	104	87 - 123	53.3	107	3	30
100-41-4	Ethylbenzene		0.109U	0.109	50.0	50.4	101	87 - 118	50.0	100	0.8	30
591-78-6	2-Hexanone		0.122U	0.122	50.0	52.6	105	58 - 125	56.5	113	7	30
98-82-8	Isopropylbenzene (Cumene)		0.130U	0.130	50.0	51.6	103	87 - 131	50.4	101	2	30
78-93-3	2-Butanone		0.142U	0.142	50.0	56.0	112	61 - 127	58.5	117	4	30
74-88-4	Methyl iodide		0.084U	0.084	50.0	43.8	88	72 - 125	43.0	86	2	30
108-10-1	4-Methyl-2-pentanone		0.120U	0.120	50.0	51.6	103	62 - 125	54.8	110	6	30
103-65-1	n-Propylbenzene		0.727U	0.727	50.0	49.6	99	86 - 125	47.3	95	5	30
100-42-5	Styrene		0.089U	0.089	50.0	51.0	102	78 - 118	50.9	102	0.2	30
127-18-4	Tetrachloroethene		0.193U	0.193	50.0	51.7	103	80 - 131	50.1	100	3	30
630-20-6	1,1,1,2-Tetrachloroethane		0.120U	0.120	50.0	52.7	105	81 - 119	52.9	106	0.4	30
79-34-5	1,1,2,2-Tetrachloroethane		0.109U	0.109	50.0	51.5	103	71 - 120	52.5	105	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 493589		**Client ID**	MB493589			LCS493589			LCSD493589		
Prep Batch N/A		**GCAL ID**	1123300			1123301			1123302		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/31/2012 21:56			10/31/2012 20:07			10/31/2012 20:28		
		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	0.105U	0.105		50.0	50.5	101	68 - 123	50.3	101	0.4	30
71-55-6	1,1,1-Trichloroethane	0.123U	0.123		50.0	51.8	104	79 - 133	50.3	101	3	30
79-00-5	1,1,2-Trichloroethane	0.159U	0.159		50.0	50.8	102	80 - 114	52.5	105	3	30
75-69-4	Trichlorofluoromethane	0.157U	0.157		50.0	52.1	104	66 - 156	50.1	100	4	30
96-18-4	1,2,3-Trichloropropane	0.065U	0.065		50.0	50.2	100	77 - 115	54.2	108	8	30
95-63-6	1,2,4-Trimethylbenzene	0.084U	0.084		50.0	47.4	95	82 - 120	46.4	93	2	30
108-67-8	1,3,5-Trimethylbenzene	0.066U	0.066		50.0	49.6	99	83 - 123	47.8	96	4	30
75-01-4	Vinyl chloride	0.127U	0.127		50.0	50.3	101	57 - 153	48.6	97	3	30
95-47-6	o-Xylene	0.055U	0.055		50.0	50.4	101	83 - 121	49.7	99	1	30
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	0.194		50.0	53.1	106	61 - 118	55.8	112	5	30
106-93-4	1,2-Dibromoethane	0.102U	0.102		50.0	51.5	103	80 - 115	53.5	107	4	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078		50.0	49.0	98	75 - 116	50.3	101	3	30
540-59-0	1,2-Dichloroethene(Total)	0.180U	0.180		100	103	103	74 - 128	101	101	2	30
99-87-6	4-Isopropyltoluene	0.070U	0.070		50.0	50.6	101	83 - 125	48.2	96	5	30
1330-20-7	Xylene (total)	0.179U	0.179		150	150	100	74 - 127	147	98	2	30
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	0.264		50.0	50.8	102	51 - 137	51.3	103	1	30
594-20-7	2,2-Dichloropropane	0.170U	0.170		50.0	53.7	107	77 - 138	51.6	103	4	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158		50.0	50.0	100	74 - 139	47.0	94	6	30
563-58-6	1,1-Dichloropropene	0.052U	0.052		50.0	52.8	106	87 - 127	51.0	102	3	30
142-28-9	1,3-Dichloropropane	0.059U	0.059		50.0	49.7	99	81 - 113	51.1	102	3	30
108-86-1	Bromobenzene	0.145U	0.145		50.0	47.1	94	83 - 115	47.0	94	0.2	30
95-49-8	2-Chlorotoluene	0.080U	0.080		50.0	48.9	98	81 - 121	47.4	95	3	30
106-43-4	4-Chlorotoluene	0.124U	0.124		50.0	48.4	97	84 - 120	47.1	94	3	30
98-06-6	tert-Butylbenzene	0.087U	0.087		50.0	50.5	101	83 - 126	49.0	98	3	30
135-98-8	sec-Butylbenzene	0.107U	0.107		50.0	50.9	102	86 - 127	48.7	97	4	30
541-73-1	1,3-Dichlorobenzene	0.138U	0.138		50.0	48.3	97	86 - 115	47.2	94	2	30
106-46-7	1,4-Dichlorobenzene	0.083U	0.083		50.0	46.9	94	87 - 113	46.6	93	0.6	30
104-51-8	n-Butylbenzene	0.123U	0.123		50.0	52.2	104	84 - 124	49.4	99	6	30
95-50-1	1,2-Dichlorobenzene	0.135U	0.135		50.0	48.8	98	85 - 115	48.6	97	0.4	30
87-68-3	Hexachlorobutadiene	0.265U	0.265		50.0	52.6	105	71 - 133	50.6	101	4	30
91-20-3	Naphthalene	0.176U	0.176		50.0	46.7	93	59 - 125	50.5	101	8	35
75-35-4	1,1-Dichloroethene	0.208U	0.208		50.0	47.4	95	75 - 133	46.5	93	2	20
71-43-2	Benzene	0.111U	0.111		50.0	49.6	99	83 - 124	48.8	98	2	20

GC/MS Volatiles Quality Control Summary

Analytical Batch 493589		**Client ID**	MB493589			LCS493589			LCSD493589		
Prep Batch N/A		**GCAL ID**	1123300			1123301			1123302		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/31/2012 21:56			10/31/2012 20:07			10/31/2012 20:28		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.161U	0.161	50.0	51.0	102	85 - 124	50.4	101	1	20
108-88-3	Toluene		0.122U	0.122	50.0	47.7	95	86 - 116	47.0	94	1	20
108-90-7	Chlorobenzene		0.083U	0.083	50.0	49.5	99	87 - 115	49.5	99	0	20
Surrogate												
460-00-4	4-Bromofluorobenzene		50.2	100	50	50.5	101	84 - 120	50.9	102		
1868-53-7	Dibromofluoromethane		49.6	99	50	50.9	102	87 - 116	50.1	100		
2037-26-5	Toluene d8		50.3	101	50	50.4	101	86 - 112	50.4	101		
17060-07-0	1,2-Dichloroethane-d4		49.7	99	50	49.9	100	76 - 127	50.4	101		

Inorganics Quality Control Summary

Analytical Batch	493483	**Client ID**	MB493152			LCS493152		
Prep Batch	493152	**GCAL ID**	1121302			1121303		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	10/26/2012 11:20			10/26/2012 11:20		
		Analytical Date	10/31/2012 11:59			10/31/2012 12:00		
		Matrix	Water			Water		
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.000068U	0.000068	0.00500	0.00454	91	88 - 111

Analytical Batch	493483	**Client ID**	MW-X-01			MW-X-01-MS			MW-X-01-MSD			
Prep Batch	493152	**GCAL ID**	21210250303			21210250304			21210250305			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	10/26/2012 11:20			10/26/2012 11:20			10/26/2012 11:20			
	Dissolved	**Analytical Date**	10/31/2012 12:02			10/31/2012 12:04			10/31/2012 12:05			
		Matrix	Water			Water			Water			
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.00000	0.000068	0.00500	0.00447	89	75 - 125	0.00463	93	4	10

Inorganics Quality Control Summary

Analytical Batch	493321	**Client ID**	LCS493151
Prep Batch	493151	**GCAL ID**	1121301
Prep Method	SW-846 7470A	**Sample Type**	LCS
		Prep Date	10/26/2012 11:20
		Analytical Date	10/29/2012 12:01
		Matrix	Water

SW-846 7470A		**Spike Added**	**Result**	**% R**	**Control Limits % R**
7439-97-6	Mercury	0.00500	0.00492	98	80 - 120

Analytical Batch	493483	**Client ID**	MW-X-01	MW-X-01-MS	MW-X-01-MSD
Prep Batch	493151	**GCAL ID**	21210250303	21210250304	21210250305
Prep Method	SW-846 7470A	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	10/26/2012 11:20	10/26/2012 11:20	10/26/2012 11:20
		Analytical Date	10/31/2012 11:46	10/31/2012 11:47	10/31/2012 11:49
		Matrix	Water	Water	Water

SW-846 7470A		**Units**	mg/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7439-97-6	Mercury	0.00000	0.000068	0.00500	0.00497	99	75 - 125	0.00467	93	6	20

Inorganics Quality Control Summary

Analytical Batch	493803	**Client ID**	MB493145	LCS493145
Prep Batch	493145	**GCAL ID**	1121279	1121280
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	10/26/2012 10:20	10/26/2012 10:20
		Analytical Date	11/03/2012 13:56	11/03/2012 14:03
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.030U	0.030	5.00	4.96	99	87 - 111
7440-36-0	Antimony	0.0031U	0.0031	0.50	0.49	99	88 - 108
7440-38-2	Arsenic	0.0036U	0.0036	0.50	0.51	102	88 - 109
7440-39-3	Barium	0.00071U	0.00071	0.50	0.49	99	92 - 112
7440-41-7	Beryllium	0.00010U	0.00010	0.50	0.50	100	89 - 113
7440-43-9	Cadmium	0.00024J	0.00016	0.50	0.50	100	88 - 111
7440-70-2	Calcium	0.064J	0.046	5.00	4.94	99	90 - 111
7440-47-3	Chromium	0.00026U	0.00026	0.50	0.49	98	90 - 113
7440-48-4	Cobalt	0.00059J	0.00058	0.50	0.50	100	89 - 111
7440-50-8	Copper	0.0021J	0.0010	0.50	0.49	98	86 - 112
7439-89-6	Iron	0.013U	0.013	5.00	4.92	98	89 - 116
7439-92-1	Lead	0.0020U	0.0020	0.50	0.50	101	89 - 109
7439-95-4	Magnesium	0.022J	0.016	5.00	4.95	99	92 - 113
7439-96-5	Manganese	0.0013U	0.0013	0.50	0.50	99	90 - 110
7440-02-0	Nickel	0.0014J	0.0011	0.50	0.50	101	89 - 111
7440-09-7	Potassium	0.0079J	0.0035	10.0	9.77	98	89 - 114
7782-49-2	Selenium	0.0044U	0.0044	0.50	0.51	101	90 - 110
7440-22-4	Silver	0.00070U	0.00070	0.50	0.50	100	86 - 120
7440-23-5	Sodium	0.061U	0.061	20.0	19.5	98	90 - 117
7440-28-0	Thallium	0.0030U	0.0030	0.50	0.50	100	88 - 108
7440-62-2	Vanadium	0.0021J	0.0012	0.50	0.49	97	91 - 111
7440-66-6	Zinc	0.0045U	0.0045	0.50	0.51	101	84 - 111

Inorganics Quality Control Summary

Analytical Batch	493803	**Client ID**	SWMU183-MW03	1120966MS	1120966MSD
Prep Batch	493145	**GCAL ID**	21210250106	1121281	1121282
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	10/26/2012 10:20	10/26/2012 10:20	10/26/2012 10:20
		Analytical Date	11/03/2012 15:21	11/03/2012 15:28	11/03/2012 15:35
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.030	5.00	4.81	96	83 - 119	5.21	104	8	25
7440-36-0	Antimony	0.0087	0.0031	0.50	0.51	101	81 - 124	0.54	105	4	25
7440-38-2	Arsenic	0.012	0.0036	0.50	0.53	104	84 - 124	0.57	112	8	25
7440-39-3	Barium	0.0093	0.00071	0.50	0.46	90	85 - 120	0.50	98	7	25
7440-41-7	Beryllium	0.0	0.00010	0.50	0.48	95	79 - 121	0.50	101	6	25
7440-43-9	Cadmium	0.0	0.00016	0.50	0.42	85	82 - 119	0.46	93	9	25
7440-70-2	Calcium	523	0.046	5.00	553	**604***	48 - 153	552	**578***	0.2	25
7440-47-3	Chromium	0.0073	0.00026	0.50	0.45	89	73 - 135	0.48	96	7	25
7440-48-4	Cobalt	0.0015	0.00058	0.50	0.44	88	82 - 119	0.47	94	6	25
7440-50-8	Copper	0.0037	0.0010	0.50	0.50	99	82 - 129	0.54	106	7	25
7439-89-6	Iron	0.0	0.013	5.00	4.50	90	52 - 155	4.89	98	8	25
7439-92-1	Lead	0.0	0.0020	0.50	0.43	86	62 - 146	0.46	91	6	25
7439-95-4	Magnesium	199	0.016	5.00	211	**245***	62 - 146	211	**247***	0.07	25
7439-96-5	Manganese	0.80	0.0013	0.50	1.27	95	79 - 121	1.31	102	3	25
7440-02-0	Nickel	0.0	0.0011	0.50	0.42	85	84 - 120	0.46	92	8	25
7440-09-7	Potassium	7.33	0.0035	10.0	20.0	127	76 - 132	20.7	**134***	3	25
7782-49-2	Selenium	0.0	0.0044	0.50	0.49	98	71 - 140	0.54	107	8	25
7440-22-4	Silver	0.0	0.00070	0.50	0.50	100	75 - 141	0.53	106	6	25
7440-28-0	Thallium	0.0	0.0030	0.50	0.42	**84***	90 - 116	0.44	**88***	5	25
7440-62-2	Vanadium	0.024	0.0012	0.50	0.49	93	85 - 120	0.52	100	7	25
7440-66-6	Zinc	0.0	0.0045	0.50	0.47	93	60 - 137	0.51	102	9	25

Analytical Batch	493803	**Client ID**	SWMU183-MW03	1120966MS	1120966MSD
Prep Batch	493145	**GCAL ID**	21210250106	1121281	1121282
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	10/26/2012 10:20	10/26/2012 10:20	10/26/2012 10:20
		Analytical Date	11/03/2012 14:10	11/03/2012 14:17	11/03/2012 14:24
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	972	0.31	20.0	1020	**258***	70 - 203	1020	**237***	0.4	25

General Chemistry Quality Control Summary

Analytical Batch 493113	**Client ID**	MB493113			LCS493113		
Prep Batch N/A	**GCAL ID**	1121132			1121133		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/25/2012 13:40			10/25/2012 13:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	7.00U	7.00	1000	994	99.4	90 - 110

Analytical Batch 493113	**Client ID**	MW-08-05		1120961DUP		
Prep Batch N/A	**GCAL ID**	21210250101		1121134		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/25/2012 13:40		10/25/2012 13:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2932	7.00	2950	0.48	5

General Chemistry Quality Control Summary

Analytical Batch 493033	**Client ID**	MB493033			LCS493033		
Prep Batch N/A	**GCAL ID**	1120816			1120817		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/24/2012 23:23			10/25/2012 15:08		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16984-48-8	Fluoride	0.018U	0.018				
14797-65-0	Nitrite	0.015U	0.015	2.50	2.74	110	80 - 120
14797-55-8	Nitrate	0.115U	0.115	2.50	2.53	101	80 - 120

Analytical Batch 493033	**Client ID**	S10-MW01			1120967MS			1120967MSD			
Prep Batch N/A	**GCAL ID**	21210250107			1120991			1120992			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/25/2012 13:57			10/25/2012 14:15			10/25/2012 14:33			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.300	50.0	64.2	**128***	75 - 125	64.7	**129***	0.84	25
14797-55-8	Nitrate	4.28	2.30	50.0	53.6	98.6	75 - 125	53.5	98.5	0.063	25

Analytical Batch 493727	**Client ID**	MB493727			LCS493727		
Prep Batch N/A	**GCAL ID**	1124038			1124039		
	Sample Type	Method Blank			LCS		
	Analytical Date	11/02/2012 16:46			11/02/2012 17:04		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.063U	0.063	2.50	2.42	96.9	80 - 120
16984-48-8	Fluoride	0.018U	0.018	2.50	2.07	82.8	80 - 120
14808-79-8	Sulfate	0.115U	0.115	5.00	4.88	97.7	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 493727	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD			
Prep Batch N/A	**GCAL ID**	21210241305			21210241306			21210241307			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	11/03/2012 00:24			11/03/2012 00:42			11/03/2012 01:00			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16984-48-8 Fluoride		0.465	0.180	25.0	16.4	**63.6***	75 - 125	16.3	**63.3***	0.35	25

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NV Project No: 10-0004

COC Number(1): 10-24-2012-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q4)

Client Name: USACE - Omaha District

Collected by: Brian Parrish / Bernard Wolfe

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Fluoride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)							Quality Assurance Samples (6)				
MW-08-05	MW-08-05	10/23/2012	1210	-	N	1	WG	7	X	X	X	X	X					1	1
MW-08-07	MW-08-07	10/23/2012	1440	-	N	1	WG	7	X	X	X	X	X					1	2
MW-08-07-A	MW-08-07-A	10/23/2012	1440	-	FD	1	WG	7	X	X	X	X	X					1	3
Trip Blank #4		10/23/2012			TB	1	WQ	3	X								HA 2167040	1	4
MW-08-01	MW-08-01	10/23/2012	1220		N	1	WG	7	X	X	X	X	X					2	5
SWMU183-MW03	SWMU183-MW03	10/23/2012	1705	-	N	1	WG	7	X	X	X	X	X					2	6
S10-MW01	S10-MW01	10/24/2012	0830	-	N	1	WG	7	X	X	X	X	X					2	7
S10-MW01-A	S10-MW01-A	10/24/2012	0830	-	FD	1	WG	7	X	X	X	X	X					2	8
Trip Blank #5		10/23/2012		-	TB	1	WQ	3	X								HA2167040	2	9
				-															
				-															

COMMENTS: Dissolved TAL Metals filtered in the field

3.4 4.3

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. J. McKit	10/24/2012	1530	1.		
2. FedEx			2. Fauccer	10/25/12	940
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.: 7939 1898 8543

Method of Shipment: Fed Ex

Airbill Number:

Analytical Lab: GCAL

Delivery Location: Baton Rogue, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

SAMPLE DELIVERY GROUP	212102501
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile 204817 - Holloman AFB	**Received By** Saucier, Charlotte
Line Item(s) 3 - SD-08	**Receive Date(s)** 10/25/12

CHECKLIST

	Yes	No	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☑	☐	☐
Was preservative added to any container at the lab?	☐	☑	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☑	☐	☐
Do all sample labels match the Chain of Custody?	☑	☐	☐
Did the Chain of Custody list the sampling technician?	☑	☐	☐
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑	☐	☐

COOLERS

Airbill	Temp(oC)
793918988543	3.4 4.3

DISCREPANCIES

None

LABORATORY PRESERVATIONS

None

NOTES

D-6

LTM Quarter 5 (Jan 2013, NationView)

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 02/06/2013

GCAL Report 213012206

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB SD-08 (Q5)

CASE NARRATIVE

Client: NationView LLC **Report:** 213012206

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

In the SW-846 6010B analysis, either a chemical or physical interference necessitated a dilution for all samples or the samples had to be diluted in order to bracket the concentration within the linear dynamic range of the instrument. This is reflected in the elevated detection limits.

In the SW-846 7470A Dissolved analysis for prep batch 499482, the MS and/or MSD recovery and the RPD for Mercury is outside the control limit. All other batch QC is acceptable.

In the SW-846 7470A analysis for prep batch 499481, the MS/MSD recoveries are outside the project control limits. The LCS recovery is acceptable. This indicates the system is in control and the sample is affected by matrix interference.

In the SW-846 6010B Dissolved analysis for prep batch 499478, the MS/MSD recoveries are not applicable for Sodium, Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. The MS and/or MSD recovery is outside the control limits for Arsenic, Selenium and Thallium. 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 102% Arsenic, 93% Selenium and 96% Thallium.

CONVENTIONALS

In the EPA 300.0 analysis, samples 21301220601 (MW-08-04), 21301220602 (MW-08-08), 21301220603 (MW-08-05) and 21301220604 (SWMU183-MW03) had to be diluted in order to bracket the concentration within the calibration range of the instrument.

In the SM 2540 C for analytical batch 499497, the RPD does not apply because the determined concentration of the sample and/or duplicate is less than 20X the reporting limit. Standard methods requires 5% precision when the concentration is greater than 20X the reporting limit.

MISCELLANEOUS

Additional HNO3 was added to the metals containers for samples 21301220601 (MW-08-04) and 21301220603 (MW-08-05) because the pH was >2 when checked at sample receiving.

The volatile containers for sample 21301220605 (TRIP BLANK) contained headspace in excess of that allowed by the method. The sample was analyzed at the clients request.

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
Technical Director
GCAL REPORT 213012206

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220601	MW-08-04	Water	01/21/2013 11:20	01/22/2013 10:00
21301220602	MW-08-08	Water	01/21/2013 11:15	01/22/2013 10:00
21301220603	MW-08-05	Water	01/21/2013 12:55	01/22/2013 10:00
21301220604	SWMU183-MW03	Water	01/21/2013 12:45	01/22/2013 10:00
21301220605	TRIP BLANK	Water	01/21/2013 00:00	01/22/2013 10:00

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220601	**MW-08-04**	Water	01/21/2013 11:20	01/22/2013 10:00

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3280	10.0	7.00	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	1.02	1.00	0.180	mg/L
14797-55-8	Nitrate	6.20	5.00	1.15	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.71J	5.00	0.193	ug/L
75-25-2	Bromoform	0.636J	5.00	0.215	ug/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.012J	0.050	0.0035	mg/L
7440-41-7	Beryllium	0.00062J	0.025	0.00051	mg/L
7440-70-2	Calcium	461	0.50	0.23	mg/L
7439-95-4	Magnesium	255	0.50	0.082	mg/L
7440-09-7	Potassium	15.1	2.50	0.18	mg/L
7440-23-5	Sodium	639	5.00	0.31	mg/L
7440-62-2	Vanadium	0.024J	0.10	0.0062	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	583	50.0	31.5	mg/L
14808-79-8	Sulfate	2690	100	57.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220602	**MW-08-08**	Water	01/21/2013 11:15	01/22/2013 10:00

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00011J	0.00020	0.000068	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220602	**MW-08-08**	Water	01/21/2013 11:15	01/22/2013 10:00

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00009J	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.033J	0.30	0.016	mg/L
7440-39-3	Barium	0.011J	0.050	0.0035	mg/L
7440-70-2	Calcium	613	0.50	0.23	mg/L
7439-95-4	Magnesium	1370	0.50	0.082	mg/L
7439-96-5	Manganese	0.090	0.075	0.0066	mg/L
7440-09-7	Potassium	33.6	2.50	0.18	mg/L
7440-22-4	Silver	0.011J	0.050	0.0035	mg/L
7440-62-2	Vanadium	0.077J	0.10	0.0062	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	7190	50.0	3.05	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	10300	500	315	mg/L
14808-79-8	Sulfate	6390	1000	575	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	31600	100	70.0	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	33.0	25.0	5.75	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220603	**MW-08-05**	Water	01/21/2013 12:55	01/22/2013 10:00

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00010J	0.00020	0.000068	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2270	10.0	7.00	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	Sulfate	1630	100	57.5	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.020J	0.30	0.016	mg/L
7440-39-3	Barium	0.018J	0.050	0.0035	mg/L
7440-70-2	Calcium	572	0.50	0.23	mg/L
7439-95-4	Magnesium	81.5	0.50	0.082	mg/L
7439-96-5	Manganese	0.056J	0.075	0.0066	mg/L
7440-09-7	Potassium	7.51	2.50	0.18	mg/L
7440-22-4	Silver	0.0040J	0.050	0.0035	mg/L
7440-23-5	Sodium	79.4	5.00	0.31	mg/L
7440-62-2	Vanadium	0.016J	0.10	0.0062	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	59.0	5.00	3.15	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	5.03	0.100	0.018	mg/L
14797-55-8	Nitrate	0.321J	0.500	0.115	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220604	**SWMU183-MW03**	Water	01/21/2013 12:45	01/22/2013 10:00

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00011J	0.00020	0.000068	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00008J	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.019J	0.30	0.016	mg/L
7440-39-3	Barium	0.0099J	0.050	0.0035	mg/L
7440-70-2	Calcium	493	0.50	0.23	mg/L
7439-95-4	Magnesium	189	0.50	0.082	mg/L
7439-96-5	Manganese	0.67	0.075	0.0066	mg/L
7440-09-7	Potassium	5.92	2.50	0.18	mg/L
7440-23-5	Sodium	1140	5.00	0.31	mg/L
7440-28-0	Thallium	0.021J	0.10	0.015	mg/L
7440-62-2	Vanadium	0.012J	0.10	0.0062	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	1.69J	2.00	0.360	mg/L
14797-55-8	Nitrate	34.0	10.0	2.30	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3730	10.0	7.00	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	929	200	126	mg/L
14808-79-8	Sulfate	3170	400	230	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220601	**MW-08-04**	Water	01/21/2013 11:20	01/22/2013 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 13:51	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.71J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	**Bromoform**	**0.636J**	**5.00**	**0.215**	**ug/L**
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220601	**MW-08-04**	Water	01/21/2013 11:20	01/22/2013 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 13:51	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	49	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	49.8	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:27	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:48	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220601	**MW-08-04**	Water	01/21/2013 11:20	01/22/2013 10:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 21:57	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	Antimony	0.016U	0.30	0.016	mg/L
7440-38-2	Arsenic	0.018U	0.050	0.018	mg/L
7440-39-3	**Barium**	**0.012J**	**0.050**	**0.0035**	**mg/L**
7440-41-7	**Beryllium**	**0.00062J**	**0.025**	**0.00051**	**mg/L**
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**461**	**0.50**	**0.23**	**mg/L**
7440-47-3	Chromium	0.0013U	0.050	0.0013	mg/L
7440-48-4	Cobalt	0.0029U	0.050	0.0029	mg/L
7440-50-8	Copper	0.0050U	0.050	0.0050	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**255**	**0.50**	**0.082**	**mg/L**
7439-96-5	Manganese	0.0066U	0.075	0.0066	mg/L
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**15.1**	**2.50**	**0.18**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0035U	0.050	0.0035	mg/L
7440-23-5	**Sodium**	**639**	**5.00**	**0.31**	**mg/L**
7440-28-0	Thallium	0.015U	0.10	0.015	mg/L
7440-62-2	**Vanadium**	**0.024J**	**0.10**	**0.0062**	**mg/L**
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/04/2013 16:43	AWG	500239

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.063U	0.50	0.063	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/23/2013 14:35	DJH	499497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3280**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220601	**MW-08-04**	Water	01/21/2013 11:20	01/22/2013 10:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	01/22/2013 19:33	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**1.02**	**1.00**	**0.180**	**mg/L**
14797-55-8	**Nitrate**	**6.20**	**5.00**	**1.15**	**mg/L**
14797-65-0	Nitrite	0.150U	5.00	0.150	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	01/22/2013 19:50	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**583**	**50.0**	**31.5**	**mg/L**
14808-79-8	**Sulfate**	**2690**	**100**	**57.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220602	**MW-08-08**	Water	01/21/2013 11:15	01/22/2013 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 14:12	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220602	**MW-08-08**	Water	01/21/2013 11:15	01/22/2013 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 14:12	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.2	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.1	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.8	ug/L	102	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:29	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00011J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:50	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00009J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220602	**MW-08-08**	Water	01/21/2013 11:15	01/22/2013 10:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	50	02/01/2013 19:25	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**7190**	**50.0**	**3.05**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 22:04	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	**Antimony**	**0.033J**	**0.30**	**0.016**	**mg/L**
7440-38-2	Arsenic	0.018U	0.050	0.018	mg/L
7440-39-3	**Barium**	**0.011J**	**0.050**	**0.0035**	**mg/L**
7440-41-7	Beryllium	0.00051U	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**613**	**0.50**	**0.23**	**mg/L**
7440-47-3	Chromium	0.0013U	0.050	0.0013	mg/L
7440-48-4	Cobalt	0.0029U	0.050	0.0029	mg/L
7440-50-8	Copper	0.0050U	0.050	0.0050	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**1370**	**0.50**	**0.082**	**mg/L**
7439-96-5	**Manganese**	**0.090**	**0.075**	**0.0066**	**mg/L**
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**33.6**	**2.50**	**0.18**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	**Silver**	**0.011J**	**0.050**	**0.0035**	**mg/L**
7440-28-0	Thallium	0.015U	0.10	0.015	mg/L
7440-62-2	**Vanadium**	**0.077J**	**0.10**	**0.0062**	**mg/L**
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/04/2013 16:51	AWG	500239

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.063U	0.50	0.063	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	01/23/2013 14:35	DJH	499497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**31600**	**100**	**70.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220602	**MW-08-08**	Water	01/21/2013 11:15	01/22/2013 10:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	01/22/2013 20:08	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**10300**	**500**	**315**	**mg/L**
14808-79-8	**Sulfate**	**6390**	**1000**	**575**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	01/22/2013 21:01	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	0.900U	5.00	0.900	mg/L
14797-55-8	**Nitrate**	**33.0**	**25.0**	**5.75**	**mg/L**
14797-65-0	Nitrite	0.750U	25.0	0.750	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220603	**MW-08-05**	Water	01/21/2013 12:55	01/22/2013 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 14:33	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220603	**MW-08-05**	Water	01/21/2013 12:55	01/22/2013 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 14:33	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	53.1	ug/L	106	84 - 120
1868-53-7	Dibromofluoromethane	50	49.3	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.7	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.8	ug/L	98	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:31	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 18:34	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00010J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220603	**MW-08-05**	Water	01/21/2013 12:55	01/22/2013 10:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 22:12	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	**Antimony**	**0.020J**	**0.30**	**0.016**	**mg/L**
7440-38-2	Arsenic	0.018U	0.050	0.018	mg/L
7440-39-3	**Barium**	**0.018J**	**0.050**	**0.0035**	**mg/L**
7440-41-7	Beryllium	0.00051U	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**572**	**0.50**	**0.23**	**mg/L**
7440-47-3	Chromium	0.0013U	0.050	0.0013	mg/L
7440-48-4	Cobalt	0.0029U	0.050	0.0029	mg/L
7440-50-8	Copper	0.0050U	0.050	0.0050	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**81.5**	**0.50**	**0.082**	**mg/L**
7439-96-5	**Manganese**	**0.056J**	**0.075**	**0.0066**	**mg/L**
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**7.51**	**2.50**	**0.18**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	**Silver**	**0.0040J**	**0.050**	**0.0035**	**mg/L**
7440-23-5	**Sodium**	**79.4**	**5.00**	**0.31**	**mg/L**
7440-28-0	Thallium	0.015U	0.10	0.015	mg/L
7440-62-2	**Vanadium**	**0.016J**	**0.10**	**0.0062**	**mg/L**
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/04/2013 16:58	AWG	500239

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.063U	0.50	0.063	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/23/2013 14:35	DJH	499497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2270**	**10.0**	**7.00**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	01/22/2013 21:36	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**1630**	**100**	**57.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220603	**MW-08-05**	Water	01/21/2013 12:55	01/22/2013 10:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/23/2013 08:45	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**5.03**	**0.100**	**0.018**	**mg/L**
14797-55-8	**Nitrate**	**0.321J**	**0.500**	**0.115**	**mg/L**
14797-65-0	Nitrite	0.015U	0.500	0.015	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	01/23/2013 09:03	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**59.0**	**5.00**	**3.15**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220604	**SWMU183-MW03**	Water	01/21/2013 12:45	01/22/2013 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 14:54	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220604	**SWMU183-MW03**	Water	01/21/2013 12:45	01/22/2013 10:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 14:54	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.5	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:33	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00011J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:51	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00008J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220604	**SWMU183-MW03**	Water	01/21/2013 12:45	01/22/2013 10:00

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 22:18	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	**Antimony**	**0.019J**	**0.30**	**0.016**	**mg/L**
7440-38-2	Arsenic	0.018U	0.050	0.018	mg/L
7440-39-3	**Barium**	**0.0099J**	**0.050**	**0.0035**	**mg/L**
7440-41-7	Beryllium	0.00051U	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**493**	**0.50**	**0.23**	**mg/L**
7440-47-3	Chromium	0.0013U	0.050	0.0013	mg/L
7440-48-4	Cobalt	0.0029U	0.050	0.0029	mg/L
7440-50-8	Copper	0.0050U	0.050	0.0050	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**189**	**0.50**	**0.082**	**mg/L**
7439-96-5	**Manganese**	**0.67**	**0.075**	**0.0066**	**mg/L**
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**5.92**	**2.50**	**0.18**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0035U	0.050	0.0035	mg/L
7440-23-5	**Sodium**	**1140**	**5.00**	**0.31**	**mg/L**
7440-28-0	**Thallium**	**0.021J**	**0.10**	**0.015**	**mg/L**
7440-62-2	**Vanadium**	**0.012J**	**0.10**	**0.0062**	**mg/L**
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/04/2013 17:06	AWG	500239

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.063U	0.50	0.063	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/23/2013 14:35	DJH	499497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3730**	**10.0**	**7.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220604	**SWMU183-MW03**	Water	01/21/2013 12:45	01/22/2013 10:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	01/22/2013 21:54	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**1.69J**	**2.00**	**0.360**	**mg/L**
14797-55-8	**Nitrate**	**34.0**	**10.0**	**2.30**	**mg/L**
14797-65-0	Nitrite	0.300U	10.0	0.300	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	01/22/2013 22:47	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**929**	**200**	**126**	**mg/L**
14808-79-8	**Sulfate**	**3170**	**400**	**230**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220605	**TRIP BLANK**	Water	01/21/2013 00:00	01/22/2013 10:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 15:16	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301220605	**TRIP BLANK**	Water	01/21/2013 00:00	01/22/2013 10:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 15:16	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.3	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	49.6	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.1	ug/L	100	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch	499617	**Client ID**	MB499617			LCS499617			LCSD499617		
Prep Batch	N/A	**GCAL ID**	1153321			1153322			1153323		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	01/25/2013 12:15			01/25/2013 10:26			01/25/2013 10:47		
		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	0.193U		0.193	50.0	42.8	86	59 - 134	45.2	90	5	30
74-97-5	Bromochloromethane	0.127U		0.127	50.0	48.2	96	78 - 112	49.1	98	2	30
75-27-4	Bromodichloromethane	0.083U		0.083	50.0	47.9	96	76 - 116	48.5	97	1	30
75-25-2	Bromoform	0.215U		0.215	50.0	45.6	91	68 - 128	47.8	96	5	30
74-83-9	Bromomethane	0.427U		0.427	50.0	41.8	84	55 - 151	44.9	90	7	30
75-15-0	Carbon disulfide	0.190U		0.190	50.0	55.2	110	67 - 147	57.7	115	4	30
56-23-5	Carbon tetrachloride	0.248U		0.248	50.0	48.7	97	74 - 139	49.7	99	2	30
75-00-3	Chloroethane	0.235U		0.235	50.0	46.5	93	54 - 166	47.8	96	3	30
136777-61-2	m,p-Xylene	0.123U		0.123	100	96.1	96	83 - 121	97.9	98	2	30
67-66-3	Chloroform	0.155U		0.155	50.0	47.7	95	85 - 123	48.5	97	2	30
74-87-3	Chloromethane	0.144U		0.144	50.0	47.3	95	55 - 173	48.9	98	3	30
124-48-1	Dibromochloromethane	0.054U		0.054	50.0	47.6	95	74 - 116	49.4	99	4	30
74-95-3	Dibromomethane	0.211U		0.211	50.0	46.9	94	81 - 116	48.2	96	3	30
75-71-8	Dichlorodifluoromethane	0.145U		0.145	50.0	48.9	98	34 - 158	49.1	98	0.4	30
75-34-3	1,1-Dichloroethane	0.171U		0.171	50.0	47.9	96	82 - 127	48.9	98	2	30
107-06-2	1,2-Dichloroethane	0.116U		0.116	50.0	47.6	95	76 - 122	48.2	96	1	30
156-59-2	cis-1,2-Dichloroethene	0.103U		0.103	50.0	46.5	93	81 - 114	48.1	96	3	30
156-60-5	trans-1,2-Dichloroethene	0.077U		0.077	50.0	47.9	96	82 - 126	48.3	97	0.8	30
75-09-2	Methylene chloride	0.149U		0.149	50.0	45.2	90	69 - 125	46.6	93	3	30
78-87-5	1,2-Dichloropropane	0.150U		0.150	50.0	47.3	95	81 - 120	48.3	97	2	30
10061-01-5	cis-1,3-Dichloropropene	0.124U		0.124	50.0	48.1	96	83 - 119	49.9	100	4	30
10061-02-6	trans-1,3-Dichloropropene	0.128U		0.128	50.0	48.4	97	87 - 123	49.3	99	2	30
100-41-4	Ethylbenzene	0.109U		0.109	50.0	48.0	96	87 - 118	49.3	99	3	30
591-78-6	2-Hexanone	0.122U		0.122	50.0	45.8	92	58 - 125	48.3	97	5	30
98-82-8	Isopropylbenzene (Cumene)	0.130U		0.130	50.0	48.8	98	87 - 131	49.4	99	1	30
78-93-3	2-Butanone	0.142U		0.142	50.0	45.0	90	61 - 127	47.0	94	4	30
74-88-4	Methyl iodide	0.084U		0.084	50.0	51.3	103	72 - 125	57.3	115	11	30
108-10-1	4-Methyl-2-pentanone	0.120U		0.120	50.0	47.2	94	62 - 125	49.1	98	4	30
103-65-1	n-Propylbenzene	0.727U		0.727	50.0	48.1	96	86 - 125	47.3	95	2	30
100-42-5	Styrene	0.089U		0.089	50.0	48.3	97	78 - 118	49.8	100	3	30
127-18-4	Tetrachloroethene	0.193U		0.193	50.0	48.6	97	80 - 131	48.8	98	0.4	30
630-20-6	1,1,1,2-Tetrachloroethane	0.120U		0.120	50.0	47.3	95	81 - 119	49.6	99	5	30
79-34-5	1,1,2,2-Tetrachloroethane	0.109U		0.109	50.0	47.0	94	71 - 120	47.9	96	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 499617		**Client ID**	MB499617			LCS499617			LCSD499617		
Prep Batch N/A		**GCAL ID**	1153321			1153322			1153323		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	01/25/2013 12:15			01/25/2013 10:26			01/25/2013 10:47		
		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	0.105U		0.105	50.0	47.3	95	68 - 123	46.9	94	0.8	30
71-55-6	1,1,1-Trichloroethane	0.123U		0.123	50.0	48.2	96	79 - 133	48.9	98	1	30
79-00-5	1,1,2-Trichloroethane	0.159U		0.159	50.0	47.9	96	80 - 114	49.3	99	3	30
75-69-4	Trichlorofluoromethane	0.157U		0.157	50.0	46.3	93	66 - 156	43.7	87	6	30
96-18-4	1,2,3-Trichloropropane	0.065U		0.065	50.0	47.3	95	77 - 115	48.4	97	2	30
95-63-6	1,2,4-Trimethylbenzene	0.084U		0.084	50.0	48.0	96	82 - 120	47.3	95	1	30
108-67-8	1,3,5-Trimethylbenzene	0.066U		0.066	50.0	48.1	96	83 - 123	47.7	95	0.8	30
75-01-4	Vinyl chloride	0.127U		0.127	50.0	46.8	94	57 - 153	48.0	96	3	30
95-47-6	o-Xylene	0.055U		0.055	50.0	48.2	96	83 - 121	49.8	100	3	30
96-12-8	1,2-Dibromo-3-chloropropane	0.194U		0.194	50.0	47.8	96	61 - 118	49.2	98	3	30
106-93-4	1,2-Dibromoethane	0.102U		0.102	50.0	46.7	93	80 - 115	48.9	98	5	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U		0.078	50.0	46.6	93	75 - 116	48.3	97	4	30
540-59-0	1,2-Dichloroethene(Total)	0.180U		0.180	100	94.4	94	74 - 128	96.5	97	2	30
99-87-6	4-Isopropyltoluene	0.070U		0.070	50.0	48.7	97	83 - 125	48.4	97	0.6	30
1330-20-7	Xylene (total)	0.179U		0.179	150	144	96	74 - 127	148	99	3	30
110-57-6	trans-1,4-Dichloro-2-butene	0.264U		0.264	50.0	49.0	98	51 - 137	49.4	99	0.8	30
594-20-7	2,2-Dichloropropane	0.170U		0.170	50.0	48.1	96	77 - 138	48.4	97	0.6	30
76-13-1	Trichlorotrifluoroethane	0.158U		0.158	50.0	59.6	119	74 - 139	60.4	121	1	30
563-58-6	1,1-Dichloropropene	0.052U		0.052	50.0	48.4	97	87 - 127	48.2	96	0.4	30
142-28-9	1,3-Dichloropropane	0.059U		0.059	50.0	47.0	94	81 - 113	48.5	97	3	30
108-86-1	Bromobenzene	0.145U		0.145	50.0	46.7	93	83 - 115	46.8	94	0.2	30
95-49-8	2-Chlorotoluene	0.080U		0.080	50.0	46.9	94	81 - 121	47.2	94	0.6	30
106-43-4	4-Chlorotoluene	0.124U		0.124	50.0	47.2	94	84 - 120	46.7	93	1	30
98-06-6	tert-Butylbenzene	0.087U		0.087	50.0	48.4	97	83 - 126	48.3	97	0.2	30
135-98-8	sec-Butylbenzene	0.107U		0.107	50.0	48.7	97	86 - 127	47.7	95	2	30
541-73-1	1,3-Dichlorobenzene	0.138U		0.138	50.0	47.0	94	86 - 115	47.0	94	0	30
106-46-7	1,4-Dichlorobenzene	0.083U		0.083	50.0	46.9	94	87 - 113	46.6	93	0.6	30
104-51-8	n-Butylbenzene	0.123U		0.123	50.0	48.2	96	84 - 124	47.1	94	2	30
95-50-1	1,2-Dichlorobenzene	0.135U		0.135	50.0	47.1	94	85 - 115	47.4	95	0.6	30
87-68-3	Hexachlorobutadiene	0.265U		0.265	50.0	47.2	94	71 - 133	46.1	92	2	30
91-20-3	Naphthalene	0.176U		0.176	50.0	47.5	95	59 - 125	49.0	98	3	35
75-35-4	1,1-Dichloroethene	0.208U		0.208	50.0	56.8	114	75 - 133	58.4	117	3	20
71-43-2	Benzene	0.111U		0.111	50.0	47.6	95	83 - 124	48.1	96	1	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	499617	**Client ID**	MB499617			LCS499617			LCSD499617		
Prep Batch	N/A	**GCAL ID**	1153321			1153322			1153323		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	01/25/2013 12:15			01/25/2013 10:26			01/25/2013 10:47		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.161U	0.161	50.0	47.0	94	85 - 124	47.9	96	2	20
108-88-3	Toluene		0.122U	0.122	50.0	47.6	95	86 - 116	48.8	98	2	20
108-90-7	Chlorobenzene		0.083U	0.083	50.0	47.3	95	87 - 115	48.4	97	2	20
Surrogate												
460-00-4	4-Bromofluorobenzene		49.7	99	50	50	100	84 - 120	51.1	102		
1868-53-7	Dibromofluoromethane		49	98	50	49.8	100	87 - 116	49.6	99		
2037-26-5	Toluene d8		50.3	101	50	49.9	100	86 - 112	50.1	100		
17060-07-0	1,2-Dichloroethane-d4		49.7	99	50	49.9	100	76 - 127	49.1	98		

Inorganics Quality Control Summary

Analytical Batch	499538	**Client ID**	MB499482			LCS499482		
Prep Batch	499482	**GCAL ID**	1152584			1152585		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	01/24/2013 10:20			01/24/2013 10:20		
		Analytical Date	01/28/2013 17:55			01/28/2013 18:02		
		Matrix	Water			Water		
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.000068U	0.000068	0.00500	0.00508	102	88 - 111

Analytical Batch	499538	**Client ID**	MW-08-06			MW-08-06 MS			MW-08-06 MSD			
Prep Batch	499482	**GCAL ID**	21301231402			21301231403			21301231404			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	01/24/2013 10:20			01/24/2013 10:20			01/24/2013 10:20			
	Dissolved	**Analytical Date**	01/28/2013 18:03			01/28/2013 18:05			01/28/2013 18:06			
		Matrix	Water			Water			Water			
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.00000	0.000068	0.00500	0.00482	96	88 - 111	0.00431	**86***	**11***	10

Inorganics Quality Control Summary

Analytical Batch	499538	**Client ID**	MB499481	LCS499481
Prep Batch	499481	**GCAL ID**	1152582	1152583
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	01/24/2013 12:20	01/24/2013 12:20
		Analytical Date	01/28/2013 17:18	01/28/2013 17:20
		Matrix	Water	Water

SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.00008J	0.000068	0.00500	0.00548	110	88 - 111

Analytical Batch	499538	**Client ID**	MW-08-06	MW-08-06 MS	MW-08-06 MSD
Prep Batch	499481	**GCAL ID**	21301231402	21301231403	21301231404
Prep Method	SW-846 7470A	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	01/24/2013 12:20	01/24/2013 12:20	01/24/2013 12:20
		Analytical Date	01/28/2013 17:22	01/28/2013 17:23	01/28/2013 17:25
		Matrix	Water	Water	Water

SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.000068	0.00500	0.00420	**84***	88 - 111	0.00380	**76***	10	10

Inorganics Quality Control Summary

Analytical Batch	500093	**Client ID**	MB499478	LCS499478
Prep Batch	499478	**GCAL ID**	1152568	1152569
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	01/24/2013 10:20	01/24/2013 10:20
		Analytical Date	02/01/2013 17:48	02/01/2013 17:55
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.030U	0.030	5.00	4.77	95	87 - 111
7440-36-0	Antimony	0.0031U	0.0031	0.50	0.47	95	88 - 108
7440-38-2	Arsenic	0.0036U	0.0036	0.50	0.49	98	88 - 109
7440-39-3	Barium	0.00071U	0.00071	0.50	0.47	94	92 - 112
7440-41-7	Beryllium	0.00010U	0.00010	0.50	0.47	93	89 - 113
7440-43-9	Cadmium	0.00028J	0.00016	0.50	0.48	96	88 - 111
7440-70-2	Calcium	0.046U	0.046	5.00	4.78	96	90 - 111
7440-47-3	Chromium	0.00026U	0.00026	0.50	0.47	94	90 - 113
7440-48-4	Cobalt	0.00058U	0.00058	0.50	0.48	95	89 - 111
7440-50-8	Copper	0.0010U	0.0010	0.50	0.46	93	86 - 112
7439-89-6	Iron	0.013U	0.013	5.00	4.74	95	89 - 116
7439-92-1	Lead	0.0020U	0.0020	0.50	0.48	95	89 - 109
7439-95-4	Magnesium	0.016U	0.016	5.00	4.90	98	92 - 113
7439-96-5	Manganese	0.0013U	0.0013	0.50	0.47	95	90 - 110
7440-02-0	Nickel	0.0011U	0.0011	0.50	0.48	95	89 - 111
7440-09-7	Potassium	0.035U	0.035	10.0	9.43	94	89 - 114
7782-49-2	Selenium	0.0044U	0.0044	0.50	0.48	96	90 - 110
7440-22-4	Silver	0.00070U	0.00070	0.50	0.47	95	86 - 120
7440-23-5	Sodium	0.061U	0.061	20.0	19.2	96	90 - 117
7440-28-0	Thallium	0.0030U	0.0030	0.50	0.48	95	88 - 108
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.46	91	91 - 111
7440-66-6	Zinc	0.0045U	0.0045	0.50	0.48	97	84 - 111

Inorganics Quality Control Summary

Analytical Batch	500093	**Client ID**	MW-08-06	MW-08-06 MS	MW-08-06 MSD
Prep Batch	499478	**GCAL ID**	21301231402	21301231403	21301231404
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	01/24/2013 10:20	01/24/2013 10:20	01/24/2013 10:20
		Analytical Date	02/01/2013 20:13	02/01/2013 20:21	02/01/2013 20:27
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.15	5.00	4.82	96	83 - 119	5.27	105	9	25
7440-36-0	Antimony	0.015	0.016	0.50	0.53	103	81 - 124	0.55	106	4	25
7440-38-2	Arsenic	0.0	0.018	0.50	0.41	**81***	84 - 124	0.42	**83***	2	25
7440-39-3	Barium	0.0087	0.0035	0.50	0.50	97	85 - 120	0.52	102	4	25
7440-41-7	Beryllium	0.0	0.00051	0.50	0.47	93	79 - 121	0.48	97	4	25
7440-43-9	Cadmium	0.0	0.00079	0.50	0.45	91	82 - 119	0.47	95	4	25
7440-70-2	Calcium	535	0.23	5.00	528	**-100***	48 - 153	554	**372***	5	25
7440-47-3	Chromium	0.0	0.0013	0.50	0.39	77	73 - 135	0.40	80	3	25
7440-48-4	Cobalt	0.0025	0.0029	0.50	0.48	95	82 - 119	0.50	99	4	25
7440-50-8	Copper	0.0	0.0050	0.50	0.50	99	82 - 129	0.54	108	8	25
7439-92-1	Lead	0.0	0.0098	0.50	0.45	90	62 - 146	0.48	96	6	25
7439-95-4	Magnesium	937	0.082	5.00	921	**-300***	62 - 146	991	**1070***	7	25
7439-96-5	Manganese	0.0	0.0066	0.50	0.47	95	79 - 121	0.50	100	5	25
7440-02-0	Nickel	0.0	0.0057	0.50	0.46	91	84 - 120	0.47	95	4	25
7440-09-7	Potassium	23.4	0.18	10.0	32.9	95	76 - 132	33.9	105	3	25
7782-49-2	Selenium	0.0	0.022	0.50	0.25	**50***	71 - 140	0.30	**59***	17	25
7440-22-4	Silver	0.0077	0.0035	0.50	0.51	100	75 - 141	0.54	106	6	25
7440-28-0	Thallium	0.032	0.015	0.50	0.47	**88***	90 - 116	0.51	95	7	25
7440-62-2	Vanadium	0.064	0.0062	0.50	0.54	95	85 - 120	0.60	107	10	25
7440-66-6	Zinc	0.0	0.023	0.50	0.45	90	60 - 137	0.48	96	6	25

Analytical Batch	500093	**Client ID**	MW-08-06	MW-08-06 MS	MW-08-06 MSD
Prep Batch	499478	**GCAL ID**	21301231402	21301231403	21301231404
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	01/24/2013 10:20	01/24/2013 10:20	01/24/2013 10:20
		Analytical Date	02/01/2013 18:01	02/01/2013 18:08	02/01/2013 18:15
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	5140	3.05	20.0	4980	**-800***	70 - 203	5380	**1160***	8	25

Inorganics Quality Control Summary

Analytical Batch	500325	**Client ID**	MW-08-06	MW-08-06 MS	MW-08-06 MSD
Prep Batch	499478	**GCAL ID**	21301231402	21301231403	21301231404
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	01/24/2013 10:20	01/24/2013 10:20	01/24/2013 10:20
		Analytical Date	02/05/2013 22:38	02/05/2013 22:46	02/05/2013 22:52
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-89-6	Iron	0.0	0.063	5.00	4.54	91	52 - 155	4.77	95	5	25

General Chemistry Quality Control Summary

Analytical Batch 499497	**Client ID**	MB499497			LCS499497		
Prep Batch N/A	**GCAL ID**	1152638			1152639		
	Sample Type	Method Blank			LCS		
	Analytical Date	01/23/2013 14:35			01/23/2013 14:35		
	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	1010	101	90 - 110

Analytical Batch 499497	**Client ID**	MW-08-06		1152558DUP		
Prep Batch N/A	**GCAL ID**	21301231402		1152640		
	Sample Type	SAMPLE		DUP		
	Analytical Date	01/23/2013 14:35		01/23/2013 14:35		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	21800	7.00	21200	2.7	5

General Chemistry Quality Control Summary

Analytical Batch 499392		**Client ID**	MB499392		LCS499392		
Prep Batch N/A		**GCAL ID**	1152087		1152088		
		Sample Type	Method Blank		LCS		
		Analytical Date	01/22/2013 18:58		01/22/2013 19:15		
		Matrix	Water		Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.063U	0.063	2.50	2.70	108	80 - 120
14797-55-8	Nitrate	0.115U	0.115	2.50	2.61	104	80 - 120
14797-65-0	Nitrite	0.015U	0.015	2.50	2.55	102	80 - 120
16984-48-8	Fluoride	0.018U	0.018	2.50	2.59	103	80 - 120
14808-79-8	Sulfate	0.115U	0.115	5.00	4.75	95	80 - 120

Analytical Batch 499392		**Client ID**	SWMU183-MW03			1152071MS			1152071MSD			
Prep Batch N/A		**GCAL ID**	21301220604			1152089			1152090			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	ORA-00936: missing expression 93642000			01/22/2013 23:04			01/22/2013 23:22			
		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	929	126	5000	5640	94.1	75 - 125	5650	94.4	0.19	25
14808-79-8	Sulfate	3170	230	10000	13400	102	75 - 125	13300	101	0.91	25

Analytical Batch 499392		**Client ID**	SWMU183-MW03			1152071MS			1152071MSD			
Prep Batch N/A		**GCAL ID**	21301220604			1152089			1152090			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	01/22/2013 21:54			01/22/2013 22:11			01/22/2013 22:29			
		Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.300	50.0	51.4	103	75 - 125	51.6	103	0.36	25
16984-48-8	Fluoride	1.69	0.360	50.0	46.9	90.4	75 - 125	47.0	90.6	0.17	25
14797-55-8	Nitrate	34.0	2.30	50.0	87.6	107	75 - 125	86.3	105	1.6	25

General Chemistry Quality Control Summary

Analytical Batch	499392	**Client ID**	MW-08-06			MW-08-06 MS			MW-08-06 MSD		
Prep Batch	N/A	**GCAL ID**	21301231402			21301231403			21301231404		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	01/23/2013 12:57			01/23/2013 13:15			01/23/2013 13:32		
		Matrix	Water			Water			Water		
EPA 300.0		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
16984-48-8	Fluoride		0.000	0.900	125	110	88.1	75 - 125	110	87.8	0.35	25
14797-65-0	Nitrite		0.000	0.750	125	132	106	75 - 125	131	105	0.82	25
14797-55-8	Nitrate		19.0	5.75	125	142	98	75 - 125	147	103	3.9	25

NATIONVIEW /4771/ 213012266 / 1/31/13

Page: 1 of 1

NV Project No: 10-0004

COC Number(1): 01-21-2013-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q5)

Client Name: USACE - Omaha District

Collected by: Tony Lucero / Zachary Beck / Dustin McNeil

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Fluoride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)							Quality Assurance Samples (6)				
MW-08-04	MW-08-04	01/21/2013	1120	-	N	1	WG	7	X	X	X	X	X					1	1
MW-08-08	MW-08-08	01/21/2013	1115	-	N	1	WG	7	X	X	X	X	X					1	2
MW-08-05	MW-08-05	01/21/2013	1255	-	N	1	WG	7	X	X	X	X	X					1	3
SWMU183-MW03	SWMU183-MW03	01/21/2013	1245		N	1	WG	7	X	X	X	X	X					1	4
Trip Blank	Field QC	01/21/2013			TB	1	AQ	1	X										5
				-															
				-															
				-															
				-															
				-															
				-															

COMMENTS: Dissolved TAL Metals filtered in the field

2.9°C

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero	1-21-2013	1600	1. [illegible]		
2. [illegible]	1/22/13	1000	2. [illegible]	1/22/13	1000
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	7945 6418 6955
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

213012206

SAMPLE DELIVERY GROUP	213012206
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile 204817 - Holloman AFB	**Received By** Pfeifer, Ben J.
Line Item(s) 3 - SD-08	**Receive Date(s)** 01/22/13

CHECKLIST

	Yes	No	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☐	☑	☐
Was preservative added to any container at the lab?	☑	☐	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☐	☑	☐
Do all sample labels match the Chain of Custody?	☑	☐	☐
Did the Chain of Custody list the sampling technician?	☑	☐	☐
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑	☐	☐

COOLERS

Airbill	Temp(oC)
7945 6418 6955	2.9

DISCREPANCIES

21301220601 - MW-08-04
- Sample Discrepancy

21301220603 - MW-08-05
- Sample Discrepancy

21301220605 - TRIP BLANK
- Sample Discrepancy

LABORATORY PRESERVATIONS

21301220601-5\ HNO3

21301220601-7\ HNO3

21301220603-5\ HNO3

NOTES	Trip Blank: all 3 vials had headspace.

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 02/07/2013

GCAL Report 213012314

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB

CASE NARRATIVE

Client: NationView LLC **Report:** 213012314

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 499539, the MS/MSD exhibited RPD failures. All LCS/LCSD recoveries and RPDs are acceptable.

METALS

In the SW-846 7470A analysis for prep batch 499482, the MS/MSD RPD for Mercury is outside the control limits. Matrix interference from the QC sample is believed to be responsible for this.

In the SW-846 6010 Dissolved analysis for prep batch 499478, the MS/MSD recoveries are not applicable for Sodium, Calcium, and Magnesium because the sample concentration is greater than four times the spike concentration. The MS and/or MSD recovery is outside the control limits for Arsenic, Selenium and Thallium. 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 6010 Dissolved analysis, either a chemical or physical interference necessitated a dilution for all samples, or samples had to be diluted in order to bracket the concentration within the calibration range of the instrument. This is reflected in the elevated reporting limits.

CONVENTIONALS

In the EPA 300.0 analysis, samples 21301231401 (S10-MW-06), 21301231402 (MW-08-06), 21301231403 (MW-08-06 MS), 21301231404 (MW-08-06 MSD), 21301231405 (MW-08-03), 21301231406 (MW-08-07), 21301231407 (MW-08-07-A), 21301231408 (S10-MW01), 21301231409 (S10-MW01-A), 21301231410 (MW-08-02) and 21301231411 (MW-08-01) had to be diluted in order to bracket the concentration within the calibration range of the instrument.

MISCELLANEOUS

Sample 21301231409 (S10-MW01-A) container ID 21301231409-7 had to be preserved at the laboratory with HNO3. These containers was used to analyze SW-846 7470A Dissolved, SW-846 6010B Dissolved and SW-846 7470A.

Sample 21301231411 (MW-08-01) container ID 21301231411-7 had to be preserved at the laboratory with HNO3. This container was used to analyze SW-846 7470A Dissolved, SW-846 6010B Dissolved and SW-846 7470A.

Sample 21301231405 (MW-08-03) container ID 21301231405-5 had to be preserved at the laboratory with HNO3. This container was used to analyze SW-846 7470A Dissolved, SW-846 6010B Dissolved and SW-846 7470A.

Sample 21301231411 (MW-08-01) container ID 21301231411-5 had to be preserved at the laboratory with

HNO3. This container was used to analyze SW-846 7470A Dissolved, SW-846 6010B Dissolved and SW-846 7470A.

The volatile containers for sample 21301231414 (TRIP BLANK) contained headspace in excess of that allowed by the method. The sample was analyzed at the clients request.

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
Technical Director
GCAL REPORT 213012314

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231401	S10-MW-06	Water	01/21/2013 15:00	01/23/2013 09:50
21301231402	MW-08-06	Water	01/21/2013 15:00	01/23/2013 09:50
21301231403	MW-08-06 MS	Water	01/21/2013 15:00	01/23/2013 09:50
21301231404	MW-08-06 MSD	Water	01/21/2013 15:00	01/23/2013 09:50
21301231405	MW-08-03	Water	01/21/2013 16:15	01/23/2013 09:50
21301231406	MW-08-07	Water	01/22/2013 09:10	01/23/2013 09:50
21301231407	MW-08-07-A	Water	01/22/2013 09:10	01/23/2013 09:50
21301231408	S10-MW01	Water	01/22/2013 09:15	01/23/2013 09:50
21301231409	S10-MW01-A	Water	01/22/2013 09:15	01/23/2013 09:50
21301231410	MW-08-02	Water	01/22/2013 10:45	01/23/2013 09:50
21301231411	MW-08-01	Water	01/22/2013 11:00	01/23/2013 09:50
21301231412	TRIP BLANK	Water	01/22/2013 00:00	01/23/2013 09:50
21301231413	TRIP BLANK	Water	01/22/2013 00:00	01/23/2013 09:50
21301231414	TRIP BLANK	Water	01/22/2013 00:00	01/23/2013 09:50

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231401	**S10-MW-06**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00011J	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.039J	0.30	0.016	mg/L
7440-39-3	Barium	0.0082J	0.050	0.0035	mg/L
7440-70-2	Calcium	441	0.50	0.23	mg/L
7439-95-4	Magnesium	610	0.50	0.082	mg/L
7439-96-5	Manganese	0.084	0.075	0.0066	mg/L
7440-09-7	Potassium	30.3	2.50	0.18	mg/L
7440-22-4	Silver	0.011J	0.050	0.0035	mg/L
7440-62-2	Vanadium	0.081J	0.10	0.0062	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	3330	20.0	1.22	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	15300	10.0		mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	1.23J	2.00	0.360	mg/L
14797-55-8	Nitrate	47.5	10.0	2.30	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	2430	200	126	mg/L
14808-79-8	Sulfate	7320	400	230	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231402	**MW-08-06**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0087J	0.050	0.0035	mg/L
7440-70-2	Calcium	535	0.50	0.23	mg/L
7439-95-4	Magnesium	937	0.50	0.082	mg/L
7440-09-7	Potassium	23.4	2.50	0.18	mg/L
7440-22-4	Silver	0.0077J	0.050	0.0035	mg/L
7440-28-0	Thallium	0.032J	0.10	0.015	mg/L
7440-62-2	Vanadium	0.064J	0.10	0.0062	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	5140	50.0	3.05	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	21800	10.0		mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	19.0J	25.0	5.75	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.06J	5.00	0.193	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	5320	500	315	mg/L
14808-79-8	Sulfate	5390	1000	575	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231403	**MW-08-06 MS**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 7470A Water

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00420	0.00020	0.000068	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00482	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.82	1.00	0.15	mg/L
7440-36-0	Antimony	0.53	0.30	0.016	mg/L
7440-38-2	Arsenic	0.41	0.050	0.018	mg/L
7440-39-3	Barium	0.50	0.050	0.0035	mg/L
7440-41-7	Beryllium	0.47	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.45	0.025	0.00079	mg/L
7440-70-2	Calcium	528	0.50	0.23	mg/L
7440-47-3	Chromium	0.39	0.050	0.0013	mg/L
7440-48-4	Cobalt	0.48	0.050	0.0029	mg/L
7440-50-8	Copper	0.50	0.050	0.0050	mg/L
7439-92-1	Lead	0.45	0.075	0.0098	mg/L
7439-95-4	Magnesium	921	0.50	0.082	mg/L
7439-96-5	Manganese	0.47	0.075	0.0066	mg/L
7440-02-0	Nickel	0.46	0.20	0.0057	mg/L
7440-09-7	Potassium	32.9	2.50	0.18	mg/L
7782-49-2	Selenium	0.25	0.20	0.022	mg/L
7440-22-4	Silver	0.51	0.050	0.0035	mg/L
7440-28-0	Thallium	0.47	0.10	0.015	mg/L
7440-62-2	Vanadium	0.54	0.10	0.0062	mg/L
7440-66-6	Zinc	0.45	0.10	0.023	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4980	50.0	3.05	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	4.54	0.50	0.063	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	110	5.00	0.900	mg/L
14797-55-8	Nitrate	142	25.0	5.75	mg/L
14797-65-0	Nitrite	132	25.0	0.750	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231403	**MW-08-06 MS**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.2	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	49.7	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	54.0	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	52.3	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	50.6	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	59.7	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	49.4	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	55.2	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	49.8	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	49.2	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	57.1	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	52.4	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	49.2	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	52.0	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	101	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	53.1	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	48.7	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	49.4	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	53.3	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	48.9	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	50.0	5.00	0.170	ug/L
78-93-3	2-Butanone	44.7	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	49.0	5.00	0.080	ug/L
591-78-6	2-Hexanone	54.4	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	49.3	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	50.0	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	60.9	5.00	0.120	ug/L
67-64-1	Acetone	31.7	5.00	0.193	ug/L
71-43-2	Benzene	50.8	5.00	0.111	ug/L
108-86-1	Bromobenzene	49.6	5.00	0.145	ug/L
74-97-5	Bromochloromethane	51.9	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	51.9	5.00	0.083	ug/L
75-25-2	Bromoform	51.9	5.00	0.215	ug/L
74-83-9	Bromomethane	39.6	5.00	0.427	ug/L
75-15-0	Carbon disulfide	58.7	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	49.9	5.00	0.248	ug/L
108-90-7	Chlorobenzene	50.8	5.00	0.083	ug/L
75-00-3	Chloroethane	45.1	5.00	0.235	ug/L
67-66-3	Chloroform	51.7	5.00	0.155	ug/L
74-87-3	Chloromethane	51.1	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	53.1	5.00	0.054	ug/L
74-95-3	Dibromomethane	51.7	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	49.6	5.00	0.145	ug/L
100-41-4	Ethylbenzene	50.4	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	56.9	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	50.4	5.00	0.130	ug/L
74-88-4	Methyl iodide	53.0	5.00	0.084	ug/L
75-09-2	Methylene chloride	49.2	5.00	0.149	ug/L
91-20-3	Naphthalene	53.5	5.00	0.176	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231403	**MW-08-06 MS**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
100-42-5	Styrene	51.6	5.00	0.089	ug/L
127-18-4	Tetrachloroethene	49.4	5.00	0.193	ug/L
108-88-3	Toluene	51.2	5.00	0.122	ug/L
79-01-6	Trichloroethene	48.4	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	49.2	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	60.9	5.00	0.158	ug/L
75-01-4	Vinyl chloride	47.5	5.00	0.127	ug/L
1330-20-7	Xylene (total)	151	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	50.3	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	52.5	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	99.8	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	49.2	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	48.8	5.00	0.727	ug/L
95-47-6	o-Xylene	51.1	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	48.5	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	51.7	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	48.7	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	50.3	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	52.4	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	60.0	5.00	0.264	ug/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	16200	500	315	mg/L
14808-79-8	Sulfate	29300	1000	575	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231404	**MW-08-06 MSD**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 7470A Water

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00380	0.00020	0.000068	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00431	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.27	1.00	0.15	mg/L
7440-36-0	Antimony	0.55	0.30	0.016	mg/L
7440-38-2	Arsenic	0.42	0.050	0.018	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231404	**MW-08-06 MSD**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.52	0.050	0.0035	mg/L
7440-41-7	Beryllium	0.48	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.47	0.025	0.00079	mg/L
7440-70-2	Calcium	554	0.50	0.23	mg/L
7440-47-3	Chromium	0.40	0.050	0.0013	mg/L
7440-48-4	Cobalt	0.50	0.050	0.0029	mg/L
7440-50-8	Copper	0.54	0.050	0.0050	mg/L
7439-92-1	Lead	0.48	0.075	0.0098	mg/L
7439-95-4	Magnesium	991	0.50	0.082	mg/L
7439-96-5	Manganese	0.50	0.075	0.0066	mg/L
7440-02-0	Nickel	0.47	0.20	0.0057	mg/L
7440-09-7	Potassium	33.9	2.50	0.18	mg/L
7782-49-2	Selenium	0.30	0.20	0.022	mg/L
7440-22-4	Silver	0.54	0.050	0.0035	mg/L
7440-28-0	Thallium	0.51	0.10	0.015	mg/L
7440-62-2	Vanadium	0.60	0.10	0.0062	mg/L
7440-66-6	Zinc	0.48	0.10	0.023	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	5380	50.0	3.05	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	4.77	0.50	0.063	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	110	5.00	0.900	mg/L
14797-55-8	Nitrate	147	25.0	5.75	mg/L
14797-65-0	Nitrite	131	25.0	0.750	mg/L

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	50.9	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	49.5	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	55.1	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	52.3	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	51.1	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	58.5	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	48.3	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	56.6	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	46.7	5.00	0.105	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231404	**MW-08-06 MSD**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
95-63-6	1,2,4-Trimethylbenzene	47.5	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	58.8	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	52.5	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	48.7	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	51.8	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	101	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	52.4	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	46.9	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	48.1	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	53.3	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	48.0	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	49.4	5.00	0.170	ug/L
78-93-3	2-Butanone	44.6	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	48.2	5.00	0.080	ug/L
591-78-6	2-Hexanone	53.8	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	48.5	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	46.2	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	60.6	5.00	0.120	ug/L
67-64-1	Acetone	32.1	5.00	0.193	ug/L
71-43-2	Benzene	50.8	5.00	0.111	ug/L
108-86-1	Bromobenzene	49.5	5.00	0.145	ug/L
74-97-5	Bromochloromethane	50.6	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	51.9	5.00	0.083	ug/L
75-25-2	Bromoform	51.6	5.00	0.215	ug/L
74-83-9	Bromomethane	44.9	5.00	0.427	ug/L
75-15-0	Carbon disulfide	57.3	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	49.2	5.00	0.248	ug/L
108-90-7	Chlorobenzene	49.9	5.00	0.083	ug/L
75-00-3	Chloroethane	43.7	5.00	0.235	ug/L
67-66-3	Chloroform	51.7	5.00	0.155	ug/L
74-87-3	Chloromethane	53.3	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	52.3	5.00	0.054	ug/L
74-95-3	Dibromomethane	52.0	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	48.8	5.00	0.145	ug/L
100-41-4	Ethylbenzene	48.8	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	45.0	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	47.7	5.00	0.130	ug/L
74-88-4	Methyl iodide	55.9	5.00	0.084	ug/L
75-09-2	Methylene chloride	51.5	5.00	0.149	ug/L
91-20-3	Naphthalene	53.8	5.00	0.176	ug/L
100-42-5	Styrene	50.4	5.00	0.089	ug/L
127-18-4	Tetrachloroethene	46.4	5.00	0.193	ug/L
108-88-3	Toluene	49.7	5.00	0.122	ug/L
79-01-6	Trichloroethene	48.6	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	48.6	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	57.3	5.00	0.158	ug/L
75-01-4	Vinyl chloride	47.8	5.00	0.127	ug/L
1330-20-7	Xylene (total)	147	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	50.3	5.00	0.103	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231404	**MW-08-06 MSD**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
10061-01-5	cis-1,3-Dichloropropene	52.2	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	96.8	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	44.2	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	46.6	5.00	0.727	ug/L
95-47-6	o-Xylene	50.0	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	45.0	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	52.2	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	46.3	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	50.2	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	52.9	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	59.1	5.00	0.264	ug/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	16200	500	315	mg/L
14808-79-8	Sulfate	29100	1000	575	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231405	**MW-08-03**	Water	01/21/2013 16:15	01/23/2013 09:50

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00008J	0.00020	0.000068	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	1.51J	2.00	0.360	mg/L
14797-55-8	Nitrate	14.2	10.0	2.30	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.47J	5.00	0.193	ug/L
75-25-2	Bromoform	2.32J	5.00	0.215	ug/L
124-48-1	Dibromochloromethane	1.24J	5.00	0.054	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00009J	0.00020	0.000068	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231405	**MW-08-03**	Water	01/21/2013 16:15	01/23/2013 09:50

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.026J	0.30	0.016	mg/L
7440-39-3	Barium	0.0062J	0.050	0.0035	mg/L
7440-70-2	Calcium	542	0.50	0.23	mg/L
7439-95-4	Magnesium	701	0.50	0.082	mg/L
7440-09-7	Potassium	19.6	2.50	0.18	mg/L
7440-22-4	Silver	0.012J	0.050	0.0035	mg/L
7440-28-0	Thallium	0.022J	0.10	0.015	mg/L
7440-62-2	Vanadium	0.072J	0.10	0.0062	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	3160	20.0	1.22	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	4150	200	126	mg/L
14808-79-8	Sulfate	4960	400	230	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	14100	10.0		mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231406	**MW-08-07**	Water	01/22/2013 09:10	01/23/2013 09:50

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00010J	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.038J	0.30	0.016	mg/L
7440-39-3	Barium	0.010J	0.050	0.0035	mg/L
7440-70-2	Calcium	604	0.50	0.23	mg/L
7440-48-4	Cobalt	0.0051J	0.050	0.0029	mg/L
7439-95-4	Magnesium	201	0.50	0.082	mg/L
7439-96-5	Manganese	1.39	0.075	0.0066	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231406	**MW-08-07**	Water	01/22/2013 09:10	01/23/2013 09:50

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-09-7	Potassium	4.54	2.50	0.18	mg/L
7440-22-4	Silver	0.0049J	0.050	0.0035	mg/L
7440-23-5	Sodium	488	5.00	0.31	mg/L
7440-62-2	Vanadium	0.011J	0.10	0.0062	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	4460	10.0		mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	2.77	0.500	0.090	mg/L
14797-55-8	Nitrate	1.31J	2.50	0.575	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	44.6	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	0.941J	5.00	0.150	ug/L
67-64-1	Acetone	1.62J	5.00	0.193	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	413	50.0	31.5	mg/L
14808-79-8	Sulfate	2150	100	57.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231407	**MW-08-07-A**	Water	01/22/2013 09:10	01/23/2013 09:50

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00009J	0.00020	0.000068	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231407	**MW-08-07-A**	Water	01/22/2013 09:10	01/23/2013 09:50

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.023J	0.30	0.016	mg/L
7440-39-3	Barium	0.011J	0.050	0.0035	mg/L
7440-70-2	Calcium	536	0.50	0.23	mg/L
7440-48-4	Cobalt	0.0034J	0.050	0.0029	mg/L
7439-95-4	Magnesium	170	0.50	0.082	mg/L
7439-96-5	Manganese	1.39	0.075	0.0066	mg/L
7440-09-7	Potassium	4.18	2.50	0.18	mg/L
7440-22-4	Silver	0.0066J	0.050	0.0035	mg/L
7440-23-5	Sodium	442	5.00	0.31	mg/L
7440-62-2	Vanadium	0.023J	0.10	0.0062	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	2.83	0.500	0.090	mg/L
14797-55-8	Nitrate	1.47J	2.50	0.575	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	4310	10.0		mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	49.2	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	1.19J	5.00	0.150	ug/L
67-64-1	Acetone	1.08J	5.00	0.193	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	389	50.0	31.5	mg/L
14808-79-8	Sulfate	2150	100	57.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231408	**S10-MW01**	Water	01/22/2013 09:15	01/23/2013 09:50

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0074J	0.050	0.0035	mg/L
7440-70-2	Calcium	504	0.50	0.23	mg/L
7439-95-4	Magnesium	493	0.50	0.082	mg/L
7439-96-5	Manganese	0.25	0.075	0.0066	mg/L
7440-09-7	Potassium	15.2	2.50	0.18	mg/L
7440-22-4	Silver	0.0065J	0.050	0.0035	mg/L
7440-23-5	Sodium	2370	5.00	0.31	mg/L
7440-62-2	Vanadium	0.055J	0.10	0.0062	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	2.49	2.00	0.360	mg/L
14797-55-8	Nitrate	4.97J	10.0	2.30	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	10800	10.0		mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	12.8	5.00	0.116	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	2390	200	126	mg/L
14808-79-8	Sulfate	4950	400	230	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231409	**S10-MW01-A**	Water	01/22/2013 09:15	01/23/2013 09:50

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.039J	0.30	0.016	mg/L
7440-39-3	Barium	0.0073J	0.050	0.0035	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231409	**S10-MW01-A**	Water	01/22/2013 09:15	01/23/2013 09:50

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	500	0.50	0.23	mg/L
7439-95-4	Magnesium	477	0.50	0.082	mg/L
7439-96-5	Manganese	0.26	0.075	0.0066	mg/L
7440-09-7	Potassium	16.0	2.50	0.18	mg/L
7440-22-4	Silver	0.0086J	0.050	0.0035	mg/L
7440-23-5	Sodium	2490	5.00	0.31	mg/L
7440-28-0	Thallium	0.024J	0.10	0.015	mg/L
7440-62-2	Vanadium	0.076J	0.10	0.0062	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00012J	0.00020	0.000068	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	2.43	2.00	0.360	mg/L
14797-55-8	Nitrate	5.06J	10.0	2.30	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	10600	10.0		mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	13.5	5.00	0.116	ug/L
67-64-1	Acetone	1.26J	5.00	0.193	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00008J	0.00020	0.000068	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	2350	200	126	mg/L
14808-79-8	Sulfate	4850	400	230	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231410	**MW-08-02**	Water	01/22/2013 10:45	01/23/2013 09:50

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00008J	0.00020	0.000068	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.032J	0.30	0.016	mg/L
7440-39-3	Barium	0.012J	0.050	0.0035	mg/L
7440-70-2	Calcium	562	0.50	0.23	mg/L
7439-95-4	Magnesium	147	0.50	0.082	mg/L
7439-96-5	Manganese	1.02	0.075	0.0066	mg/L
7440-09-7	Potassium	3.01	2.50	0.18	mg/L
7440-22-4	Silver	0.0046J	0.050	0.0035	mg/L
7440-23-5	Sodium	119	5.00	0.31	mg/L
7440-62-2	Vanadium	0.015J	0.10	0.0062	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.66	0.50	0.063	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00012J	0.00020	0.000068	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	3.94	0.500	0.090	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3510	10.0		mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	63.9	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	1.38J	5.00	0.150	ug/L
67-64-1	Acetone	1.95J	5.00	0.193	ug/L
98-06-6	tert-Butylbenzene	0.406J	5.00	0.087	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231410	**MW-08-02**	Water	01/22/2013 10:45	01/23/2013 09:50

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	116	5.00	3.15	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.132J	0.500	0.115	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	Sulfate	1940	100	57.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231411	**MW-08-01**	Water	01/22/2013 11:00	01/23/2013 09:50

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	3.28	1.00	0.180	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	8170	10.0		mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	23.8	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	4.97J	5.00	0.150	ug/L
78-93-3	2-Butanone	39.2	5.00	0.142	ug/L
67-64-1	Acetone	6.98	5.00	0.193	ug/L
71-43-2	Benzene	0.584J	5.00	0.111	ug/L
98-06-6	tert-Butylbenzene	0.784J	5.00	0.087	ug/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.020J	0.30	0.016	mg/L
7440-39-3	Barium	0.010J	0.050	0.0035	mg/L
7440-70-2	Calcium	420	0.50	0.23	mg/L
7439-95-4	Magnesium	515	0.50	0.082	mg/L
7439-96-5	Manganese	1.84	0.075	0.0066	mg/L
7440-09-7	Potassium	4.28	2.50	0.18	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231411	**MW-08-01**	Water	01/22/2013 11:00	01/23/2013 09:50

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1580	5.00	0.31	mg/L
7440-28-0	Thallium	0.035J	0.10	0.015	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	6.07	0.50	0.063	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00011J	0.00020	0.000068	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	556	100	63.0	mg/L
14808-79-8	Sulfate	5470	200	115	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231414	**TRIP BLANK**	Water	01/22/2013 00:00	01/23/2013 09:50

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	0.988J	5.00	0.193	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231401	**S10-MW-06**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 15:37	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231401	**S10-MW-06**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 15:37	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	50.4	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.1	ug/L	102	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:10	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00011J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:29	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231401	**S10-MW-06**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	20	02/01/2013 18:49	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**3330**	**20.0**	**1.22**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 20:46	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	**Antimony**	**0.039J**	**0.30**	**0.016**	**mg/L**
7440-38-2	Arsenic	0.018U	0.050	0.018	mg/L
7440-39-3	**Barium**	**0.0082J**	**0.050**	**0.0035**	**mg/L**
7440-41-7	Beryllium	0.00051U	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**441**	**0.50**	**0.23**	**mg/L**
7440-47-3	Chromium	0.0013U	0.050	0.0013	mg/L
7440-48-4	Cobalt	0.0029U	0.050	0.0029	mg/L
7440-50-8	Copper	0.0050U	0.050	0.0050	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**610**	**0.50**	**0.082**	**mg/L**
7439-96-5	**Manganese**	**0.084**	**0.075**	**0.0066**	**mg/L**
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**30.3**	**2.50**	**0.18**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	**Silver**	**0.011J**	**0.050**	**0.0035**	**mg/L**
7440-28-0	Thallium	0.015U	0.10	0.015	mg/L
7440-62-2	**Vanadium**	**0.081J**	**0.10**	**0.0062**	**mg/L**
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/04/2013 15:25	AWG	500239

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.063U	0.50	0.063	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/23/2013 14:35	DJH	499497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**15300**	**10.0**		**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231401	**S10-MW-06**	Water	01/21/2013 15:00	01/23/2013 09:50

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	01/23/2013 12:39	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**1.23J**	**2.00**	**0.360**	**mg/L**
14797-55-8	**Nitrate**	**47.5**	**10.0**	**2.30**	**mg/L**
14797-65-0	Nitrite	0.300U	10.0	0.300	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	01/23/2013 16:28	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**2430**	**200**	**126**	**mg/L**
14808-79-8	**Sulfate**	**7320**	**400**	**230**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231402	**MW-08-06**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/24/2013 18:20	LBH	499539

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.06J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231402	**MW-08-06**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/24/2013 18:20	LBH	499539

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	51	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:03	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:22	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231402	**MW-08-06**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	50	02/01/2013 18:01	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**5140**	**50.0**	**3.05**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 20:13	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	Antimony	0.016U	0.30	0.016	mg/L
7440-38-2	Arsenic	0.018U	0.050	0.018	mg/L
7440-39-3	**Barium**	**0.0087J**	**0.050**	**0.0035**	**mg/L**
7440-41-7	Beryllium	0.00051U	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**535**	**0.50**	**0.23**	**mg/L**
7440-47-3	Chromium	0.0013U	0.050	0.0013	mg/L
7440-48-4	Cobalt	0.0029U	0.050	0.0029	mg/L
7440-50-8	Copper	0.0050U	0.050	0.0050	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**937**	**0.50**	**0.082**	**mg/L**
7439-96-5	Manganese	0.0066U	0.075	0.0066	mg/L
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**23.4**	**2.50**	**0.18**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	**Silver**	**0.0077J**	**0.050**	**0.0035**	**mg/L**
7440-28-0	**Thallium**	**0.032J**	**0.10**	**0.015**	**mg/L**
7440-62-2	**Vanadium**	**0.064J**	**0.10**	**0.0062**	**mg/L**
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/05/2013 22:38	AWG	500325

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.063U	0.50	0.063	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/23/2013 14:35	DJH	499497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**21800**	**10.0**		**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231402	**MW-08-06**	Water	01/21/2013 15:00	01/23/2013 09:50

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	01/23/2013 12:57	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	Fluoride	0.900U	5.00	0.900	mg/L
14797-55-8	**Nitrate**	**19.0J**	**25.0**	**5.75**	**mg/L**
14797-65-0	Nitrite	0.750U	25.0	0.750	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	01/23/2013 16:46	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**5320**	**500**	**315**	**mg/L**
14808-79-8	**Sulfate**	**5390**	**1000**	**575**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231403	**MW-08-06 MS**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/24/2013 19:06	CEK	499539

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.2	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	49.7	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	54.0	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	52.3	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	50.6	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	59.7	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	49.4	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	55.2	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	49.8	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	49.2	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	57.1	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	52.4	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	49.2	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	52.0	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	101	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	53.1	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	48.7	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	49.4	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	53.3	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	48.9	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	50.0	5.00	0.170	ug/L
78-93-3	2-Butanone	44.7	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	49.0	5.00	0.080	ug/L
591-78-6	2-Hexanone	54.4	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	49.3	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	50.0	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	60.9	5.00	0.120	ug/L
67-64-1	Acetone	31.7	5.00	0.193	ug/L
71-43-2	Benzene	50.8	5.00	0.111	ug/L
108-86-1	Bromobenzene	49.6	5.00	0.145	ug/L
74-97-5	Bromochloromethane	51.9	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	51.9	5.00	0.083	ug/L
75-25-2	Bromoform	51.9	5.00	0.215	ug/L
74-83-9	Bromomethane	39.6	5.00	0.427	ug/L
75-15-0	Carbon disulfide	58.7	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	49.9	5.00	0.248	ug/L
108-90-7	Chlorobenzene	50.8	5.00	0.083	ug/L
75-00-3	Chloroethane	45.1	5.00	0.235	ug/L
67-66-3	Chloroform	51.7	5.00	0.155	ug/L
74-87-3	Chloromethane	51.1	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	53.1	5.00	0.054	ug/L
74-95-3	Dibromomethane	51.7	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	49.6	5.00	0.145	ug/L
100-41-4	Ethylbenzene	50.4	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	56.9	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	50.4	5.00	0.130	ug/L
74-88-4	Methyl iodide	53.0	5.00	0.084	ug/L
75-09-2	Methylene chloride	49.2	5.00	0.149	ug/L
91-20-3	Naphthalene	53.5	5.00	0.176	ug/L
100-42-5	Styrene	51.6	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231403	**MW-08-06 MS**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/24/2013 19:06	CEK	499539

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**49.4**	**5.00**	**0.193**	**ug/L**
108-88-3	**Toluene**	**51.2**	**5.00**	**0.122**	**ug/L**
79-01-6	**Trichloroethene**	**48.4**	**5.00**	**0.161**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**49.2**	**5.00**	**0.157**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**60.9**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**47.5**	**5.00**	**0.127**	**ug/L**
1330-20-7	**Xylene (total)**	**151**	**15.0**	**0.179**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**50.3**	**5.00**	**0.103**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**52.5**	**5.00**	**0.124**	**ug/L**
136777-61-2	**m,p-Xylene**	**99.8**	**10.0**	**0.123**	**ug/L**
104-51-8	**n-Butylbenzene**	**49.2**	**5.00**	**0.123**	**ug/L**
103-65-1	**n-Propylbenzene**	**48.8**	**5.00**	**0.727**	**ug/L**
95-47-6	**o-Xylene**	**51.1**	**5.00**	**0.055**	**ug/L**
135-98-8	**sec-Butylbenzene**	**48.5**	**5.00**	**0.107**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**51.7**	**5.00**	**0.078**	**ug/L**
98-06-6	**tert-Butylbenzene**	**48.7**	**5.00**	**0.087**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**50.3**	**5.00**	**0.077**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**52.4**	**5.00**	**0.128**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**60.0**	**5.00**	**0.264**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.7	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.1	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.9	ug/L	104	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:05	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00482**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:23	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00420**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231403	**MW-08-06 MS**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	50	02/01/2013 18:08	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4980**	**50.0**	**3.05**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 20:21	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4.82**	**1.00**	**0.15**	**mg/L**
7440-36-0	**Antimony**	**0.53**	**0.30**	**0.016**	**mg/L**
7440-38-2	**Arsenic**	**0.41**	**0.050**	**0.018**	**mg/L**
7440-39-3	**Barium**	**0.50**	**0.050**	**0.0035**	**mg/L**
7440-41-7	**Beryllium**	**0.47**	**0.025**	**0.00051**	**mg/L**
7440-43-9	**Cadmium**	**0.45**	**0.025**	**0.00079**	**mg/L**
7440-70-2	**Calcium**	**528**	**0.50**	**0.23**	**mg/L**
7440-47-3	**Chromium**	**0.39**	**0.050**	**0.0013**	**mg/L**
7440-48-4	**Cobalt**	**0.48**	**0.050**	**0.0029**	**mg/L**
7440-50-8	**Copper**	**0.50**	**0.050**	**0.0050**	**mg/L**
7439-92-1	**Lead**	**0.45**	**0.075**	**0.0098**	**mg/L**
7439-95-4	**Magnesium**	**921**	**0.50**	**0.082**	**mg/L**
7439-96-5	**Manganese**	**0.47**	**0.075**	**0.0066**	**mg/L**
7440-02-0	**Nickel**	**0.46**	**0.20**	**0.0057**	**mg/L**
7440-09-7	**Potassium**	**32.9**	**2.50**	**0.18**	**mg/L**
7782-49-2	**Selenium**	**0.25**	**0.20**	**0.022**	**mg/L**
7440-22-4	**Silver**	**0.51**	**0.050**	**0.0035**	**mg/L**
7440-28-0	**Thallium**	**0.47**	**0.10**	**0.015**	**mg/L**
7440-62-2	**Vanadium**	**0.54**	**0.10**	**0.0062**	**mg/L**
7440-66-6	**Zinc**	**0.45**	**0.10**	**0.023**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/05/2013 22:46	AWG	500325

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	**Iron**	**4.54**	**0.50**	**0.063**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231403	**MW-08-06 MS**	Water	01/21/2013 15:00	01/23/2013 09:50

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	01/23/2013 13:15	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**110**	**5.00**	**0.900**	**mg/L**
14797-55-8	**Nitrate**	**142**	**25.0**	**5.75**	**mg/L**
14797-65-0	**Nitrite**	**132**	**25.0**	**0.750**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	01/23/2013 17:04	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**16200**	**500**	**315**	**mg/L**
14808-79-8	**Sulfate**	**29300**	**1000**	**575**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231404	**MW-08-06 MSD**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/24/2013 19:27	CEK	499539

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	50.9	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	49.5	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	55.1	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	52.3	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	51.1	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	58.5	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	48.3	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	56.6	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	46.7	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	47.5	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	58.8	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	52.5	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	48.7	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	51.8	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	101	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	52.4	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	46.9	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	48.1	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	53.3	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	48.0	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	49.4	5.00	0.170	ug/L
78-93-3	2-Butanone	44.6	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	48.2	5.00	0.080	ug/L
591-78-6	2-Hexanone	53.8	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	48.5	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	46.2	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	60.6	5.00	0.120	ug/L
67-64-1	Acetone	32.1	5.00	0.193	ug/L
71-43-2	Benzene	50.8	5.00	0.111	ug/L
108-86-1	Bromobenzene	49.5	5.00	0.145	ug/L
74-97-5	Bromochloromethane	50.6	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	51.9	5.00	0.083	ug/L
75-25-2	Bromoform	51.6	5.00	0.215	ug/L
74-83-9	Bromomethane	44.9	5.00	0.427	ug/L
75-15-0	Carbon disulfide	57.3	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	49.2	5.00	0.248	ug/L
108-90-7	Chlorobenzene	49.9	5.00	0.083	ug/L
75-00-3	Chloroethane	43.7	5.00	0.235	ug/L
67-66-3	Chloroform	51.7	5.00	0.155	ug/L
74-87-3	Chloromethane	53.3	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	52.3	5.00	0.054	ug/L
74-95-3	Dibromomethane	52.0	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	48.8	5.00	0.145	ug/L
100-41-4	Ethylbenzene	48.8	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	45.0	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	47.7	5.00	0.130	ug/L
74-88-4	Methyl iodide	55.9	5.00	0.084	ug/L
75-09-2	Methylene chloride	51.5	5.00	0.149	ug/L
91-20-3	Naphthalene	53.8	5.00	0.176	ug/L
100-42-5	Styrene	50.4	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231404	**MW-08-06 MSD**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/24/2013 19:27	CEK	499539

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**46.4**	**5.00**	**0.193**	**ug/L**
108-88-3	**Toluene**	**49.7**	**5.00**	**0.122**	**ug/L**
79-01-6	**Trichloroethene**	**48.6**	**5.00**	**0.161**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**48.6**	**5.00**	**0.157**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**57.3**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**47.8**	**5.00**	**0.127**	**ug/L**
1330-20-7	**Xylene (total)**	**147**	**15.0**	**0.179**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**50.3**	**5.00**	**0.103**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**52.2**	**5.00**	**0.124**	**ug/L**
136777-61-2	**m,p-Xylene**	**96.8**	**10.0**	**0.123**	**ug/L**
104-51-8	**n-Butylbenzene**	**44.2**	**5.00**	**0.123**	**ug/L**
103-65-1	**n-Propylbenzene**	**46.6**	**5.00**	**0.727**	**ug/L**
95-47-6	**o-Xylene**	**50.0**	**5.00**	**0.055**	**ug/L**
135-98-8	**sec-Butylbenzene**	**45.0**	**5.00**	**0.107**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**52.2**	**5.00**	**0.078**	**ug/L**
98-06-6	**tert-Butylbenzene**	**46.3**	**5.00**	**0.087**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**50.2**	**5.00**	**0.077**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**52.9**	**5.00**	**0.128**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**59.1**	**5.00**	**0.264**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.4	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	49.6	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.2	ug/L	104	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:06	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00431**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:25	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00380**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231404	**MW-08-06 MSD**	Water	01/21/2013 15:00	01/23/2013 09:50

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	50	02/01/2013 18:15	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**5380**	**50.0**	**3.05**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 20:27	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**5.27**	**1.00**	**0.15**	**mg/L**
7440-36-0	**Antimony**	**0.55**	**0.30**	**0.016**	**mg/L**
7440-38-2	**Arsenic**	**0.42**	**0.050**	**0.018**	**mg/L**
7440-39-3	**Barium**	**0.52**	**0.050**	**0.0035**	**mg/L**
7440-41-7	**Beryllium**	**0.48**	**0.025**	**0.00051**	**mg/L**
7440-43-9	**Cadmium**	**0.47**	**0.025**	**0.00079**	**mg/L**
7440-70-2	**Calcium**	**554**	**0.50**	**0.23**	**mg/L**
7440-47-3	**Chromium**	**0.40**	**0.050**	**0.0013**	**mg/L**
7440-48-4	**Cobalt**	**0.50**	**0.050**	**0.0029**	**mg/L**
7440-50-8	**Copper**	**0.54**	**0.050**	**0.0050**	**mg/L**
7439-92-1	**Lead**	**0.48**	**0.075**	**0.0098**	**mg/L**
7439-95-4	**Magnesium**	**991**	**0.50**	**0.082**	**mg/L**
7439-96-5	**Manganese**	**0.50**	**0.075**	**0.0066**	**mg/L**
7440-02-0	**Nickel**	**0.47**	**0.20**	**0.0057**	**mg/L**
7440-09-7	**Potassium**	**33.9**	**2.50**	**0.18**	**mg/L**
7782-49-2	**Selenium**	**0.30**	**0.20**	**0.022**	**mg/L**
7440-22-4	**Silver**	**0.54**	**0.050**	**0.0035**	**mg/L**
7440-28-0	**Thallium**	**0.51**	**0.10**	**0.015**	**mg/L**
7440-62-2	**Vanadium**	**0.60**	**0.10**	**0.0062**	**mg/L**
7440-66-6	**Zinc**	**0.48**	**0.10**	**0.023**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/05/2013 22:52	AWG	500325

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	**Iron**	**4.77**	**0.50**	**0.063**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231404	**MW-08-06 MSD**	Water	01/21/2013 15:00	01/23/2013 09:50

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	01/23/2013 13:32	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**110**	**5.00**	**0.900**	**mg/L**
14797-55-8	**Nitrate**	**147**	**25.0**	**5.75**	**mg/L**
14797-65-0	**Nitrite**	**131**	**25.0**	**0.750**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	01/23/2013 17:21	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**16200**	**500**	**315**	**mg/L**
14808-79-8	**Sulfate**	**29100**	**1000**	**575**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231405	**MW-08-03**	Water	01/21/2013 16:15	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 15:59	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.47J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	**Bromoform**	**2.32J**	**5.00**	**0.215**	**ug/L**
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	**Dibromochloromethane**	**1.24J**	**5.00**	**0.054**	**ug/L**
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231405	**MW-08-03**	Water	01/21/2013 16:15	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 15:59	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.6	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.1	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	50.4	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:12	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00009J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:30	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00008J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231405	**MW-08-03**	Water	01/21/2013 16:15	01/23/2013 09:50

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	20	02/01/2013 18:56	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**3160**	**20.0**	**1.22**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 20:54	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	**Antimony**	**0.026J**	**0.30**	**0.016**	**mg/L**
7440-38-2	Arsenic	0.018U	0.050	0.018	mg/L
7440-39-3	**Barium**	**0.0062J**	**0.050**	**0.0035**	**mg/L**
7440-41-7	Beryllium	0.00051U	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**542**	**0.50**	**0.23**	**mg/L**
7440-47-3	Chromium	0.0013U	0.050	0.0013	mg/L
7440-48-4	Cobalt	0.0029U	0.050	0.0029	mg/L
7440-50-8	Copper	0.0050U	0.050	0.0050	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**701**	**0.50**	**0.082**	**mg/L**
7439-96-5	Manganese	0.0066U	0.075	0.0066	mg/L
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**19.6**	**2.50**	**0.18**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	**Silver**	**0.012J**	**0.050**	**0.0035**	**mg/L**
7440-28-0	**Thallium**	**0.022J**	**0.10**	**0.015**	**mg/L**
7440-62-2	**Vanadium**	**0.072J**	**0.10**	**0.0062**	**mg/L**
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/04/2013 15:33	AWG	500239

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.063U	0.50	0.063	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/28/2013 13:55	DJH	499726

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**14100**	**10.0**		**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231405	**MW-08-03**	Water	01/21/2013 16:15	01/23/2013 09:50

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	01/23/2013 13:50	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**1.51J**	**2.00**	**0.360**	**mg/L**
14797-55-8	**Nitrate**	**14.2**	**10.0**	**2.30**	**mg/L**
14797-65-0	Nitrite	0.300U	10.0	0.300	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	01/23/2013 17:39	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**4150**	**200**	**126**	**mg/L**
14808-79-8	**Sulfate**	**4960**	**400**	**230**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231406	**MW-08-07**	Water	01/22/2013 09:10	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 16:20	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**44.6**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**0.941J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.62J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231406	**MW-08-07**	Water	01/22/2013 09:10	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 16:20	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.4	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	50.5	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.2	ug/L	104	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:13	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:32	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00010J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231406	**MW-08-07**	Water	01/22/2013 09:10	01/23/2013 09:50

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 21:01	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	**Antimony**	**0.038J**	**0.30**	**0.016**	**mg/L**
7440-38-2	Arsenic	0.018U	0.050	0.018	mg/L
7440-39-3	**Barium**	**0.010J**	**0.050**	**0.0035**	**mg/L**
7440-41-7	Beryllium	0.00051U	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**604**	**0.50**	**0.23**	**mg/L**
7440-47-3	Chromium	0.0013U	0.050	0.0013	mg/L
7440-48-4	**Cobalt**	**0.0051J**	**0.050**	**0.0029**	**mg/L**
7440-50-8	Copper	0.0050U	0.050	0.0050	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**201**	**0.50**	**0.082**	**mg/L**
7439-96-5	**Manganese**	**1.39**	**0.075**	**0.0066**	**mg/L**
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**4.54**	**2.50**	**0.18**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	**Silver**	**0.0049J**	**0.050**	**0.0035**	**mg/L**
7440-23-5	**Sodium**	**488**	**5.00**	**0.31**	**mg/L**
7440-28-0	Thallium	0.015U	0.10	0.015	mg/L
7440-62-2	**Vanadium**	**0.011J**	**0.10**	**0.0062**	**mg/L**
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/04/2013 15:40	AWG	500239

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.063U	0.50	0.063	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/23/2013 14:35	DJH	499497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**4460**	**10.0**		**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231406	**MW-08-07**	Water	01/22/2013 09:10	01/23/2013 09:50

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	01/23/2013 14:08	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**2.77**	**0.500**	**0.090**	**mg/L**
14797-55-8	**Nitrate**	**1.31J**	**2.50**	**0.575**	**mg/L**
14797-65-0	Nitrite	0.075U	2.50	0.075	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	01/23/2013 17:56	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**413**	**50.0**	**31.5**	**mg/L**
14808-79-8	**Sulfate**	**2150**	**100**	**57.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231407	**MW-08-07-A**	Water	01/22/2013 09:10	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 16:41	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**49.2**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**1.19J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.08J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231407	**MW-08-07-A**	Water	01/22/2013 09:10	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 16:41	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.4	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.1	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.7	ug/L	99	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:15	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00009J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:39	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231407	**MW-08-07-A**	Water	01/22/2013 09:10	01/23/2013 09:50

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 21:08	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	**Antimony**	**0.023J**	**0.30**	**0.016**	**mg/L**
7440-38-2	Arsenic	0.018U	0.050	0.018	mg/L
7440-39-3	**Barium**	**0.011J**	**0.050**	**0.0035**	**mg/L**
7440-41-7	Beryllium	0.00051U	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**536**	**0.50**	**0.23**	**mg/L**
7440-47-3	Chromium	0.0013U	0.050	0.0013	mg/L
7440-48-4	**Cobalt**	**0.0034J**	**0.050**	**0.0029**	**mg/L**
7440-50-8	Copper	0.0050U	0.050	0.0050	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**170**	**0.50**	**0.082**	**mg/L**
7439-96-5	**Manganese**	**1.39**	**0.075**	**0.0066**	**mg/L**
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**4.18**	**2.50**	**0.18**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	**Silver**	**0.0066J**	**0.050**	**0.0035**	**mg/L**
7440-23-5	**Sodium**	**442**	**5.00**	**0.31**	**mg/L**
7440-28-0	Thallium	0.015U	0.10	0.015	mg/L
7440-62-2	**Vanadium**	**0.023J**	**0.10**	**0.0062**	**mg/L**
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/04/2013 16:03	AWG	500239

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.063U	0.50	0.063	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/23/2013 14:35	DJH	499497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**4310**	**10.0**		**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231407	**MW-08-07-A**	Water	01/22/2013 09:10	01/23/2013 09:50

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	01/23/2013 14:25	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**2.83**	**0.500**	**0.090**	**mg/L**
14797-55-8	**Nitrate**	**1.47J**	**2.50**	**0.575**	**mg/L**
14797-65-0	Nitrite	0.075U	2.50	0.075	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	01/23/2013 18:14	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**389**	**50.0**	**31.5**	**mg/L**
14808-79-8	**Sulfate**	**2150**	**100**	**57.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231408	**S10-MW01**	Water	01/22/2013 09:15	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 17:02	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**12.8**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231408	**S10-MW01**	Water	01/22/2013 09:15	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 17:02	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.2	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.8	ug/L	102	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:17	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:41	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231408	**S10-MW01**	Water	01/22/2013 09:15	01/23/2013 09:50

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 21:15	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	Antimony	0.016U	0.30	0.016	mg/L
7440-38-2	Arsenic	0.018U	0.050	0.018	mg/L
7440-39-3	**Barium**	**0.0074J**	**0.050**	**0.0035**	**mg/L**
7440-41-7	Beryllium	0.00051U	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**504**	**0.50**	**0.23**	**mg/L**
7440-47-3	Chromium	0.0013U	0.050	0.0013	mg/L
7440-48-4	Cobalt	0.0029U	0.050	0.0029	mg/L
7440-50-8	Copper	0.0050U	0.050	0.0050	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**493**	**0.50**	**0.082**	**mg/L**
7439-96-5	**Manganese**	**0.25**	**0.075**	**0.0066**	**mg/L**
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**15.2**	**2.50**	**0.18**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	**Silver**	**0.0065J**	**0.050**	**0.0035**	**mg/L**
7440-23-5	**Sodium**	**2370**	**5.00**	**0.31**	**mg/L**
7440-28-0	Thallium	0.015U	0.10	0.015	mg/L
7440-62-2	**Vanadium**	**0.055J**	**0.10**	**0.0062**	**mg/L**
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/04/2013 16:11	AWG	500239

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.063U	0.50	0.063	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/23/2013 14:35	DJH	499497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**10800**	**10.0**		**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231408	**S10-MW01**	Water	01/22/2013 09:15	01/23/2013 09:50

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	01/23/2013 14:43	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**2.49**	**2.00**	**0.360**	**mg/L**
14797-55-8	**Nitrate**	**4.97J**	**10.0**	**2.30**	**mg/L**
14797-65-0	Nitrite	0.300U	10.0	0.300	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	01/23/2013 18:32	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**2390**	**200**	**126**	**mg/L**
14808-79-8	**Sulfate**	**4950**	**400**	**230**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231409	**S10-MW01-A**	Water	01/22/2013 09:15	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 17:24	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**13.5**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.26J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231409	**S10-MW01-A**	Water	01/22/2013 09:15	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 17:24	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.3	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	51.7	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	50	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.8	ug/L	102	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:22	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00012J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:43	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00008J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231409	**S10-MW01-A**	Water	01/22/2013 09:15	01/23/2013 09:50

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 21:36	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	**Antimony**	**0.039J**	**0.30**	**0.016**	**mg/L**
7440-38-2	Arsenic	0.018U	0.050	0.018	mg/L
7440-39-3	**Barium**	**0.0073J**	**0.050**	**0.0035**	**mg/L**
7440-41-7	Beryllium	0.00051U	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**500**	**0.50**	**0.23**	**mg/L**
7440-47-3	Chromium	0.0013U	0.050	0.0013	mg/L
7440-48-4	Cobalt	0.0029U	0.050	0.0029	mg/L
7440-50-8	Copper	0.0050U	0.050	0.0050	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**477**	**0.50**	**0.082**	**mg/L**
7439-96-5	**Manganese**	**0.26**	**0.075**	**0.0066**	**mg/L**
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**16.0**	**2.50**	**0.18**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	**Silver**	**0.0086J**	**0.050**	**0.0035**	**mg/L**
7440-23-5	**Sodium**	**2490**	**5.00**	**0.31**	**mg/L**
7440-28-0	**Thallium**	**0.024J**	**0.10**	**0.015**	**mg/L**
7440-62-2	**Vanadium**	**0.076J**	**0.10**	**0.0062**	**mg/L**
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/04/2013 16:18	AWG	500239

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.063U	0.50	0.063	mg/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/23/2013 14:35	DJH	499497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**10600**	**10.0**		**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231409	**S10-MW01-A**	Water	01/22/2013 09:15	01/23/2013 09:50

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	01/23/2013 15:00	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**2.43**	**2.00**	**0.360**	**mg/L**
14797-55-8	**Nitrate**	**5.06J**	**10.0**	**2.30**	**mg/L**
14797-65-0	Nitrite	0.300U	10.0	0.300	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	01/23/2013 18:49	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**2350**	**200**	**126**	**mg/L**
14808-79-8	**Sulfate**	**4850**	**400**	**230**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231410	**MW-08-02**	Water	01/22/2013 10:45	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 17:45	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**63.9**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**1.38J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.95J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231410	**MW-08-02**	Water	01/22/2013 10:45	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 17:45	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	**tert-Butylbenzene**	**0.406J**	**5.00**	**0.087**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	48.9	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	49.6	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:24	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00012J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:44	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00008J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231410	**MW-08-02**	Water	01/22/2013 10:45	01/23/2013 09:50

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 21:43	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	**Antimony**	**0.032J**	**0.30**	**0.016**	**mg/L**
7440-38-2	Arsenic	0.018U	0.050	0.018	mg/L
7440-39-3	**Barium**	**0.012J**	**0.050**	**0.0035**	**mg/L**
7440-41-7	Beryllium	0.00051U	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**562**	**0.50**	**0.23**	**mg/L**
7440-47-3	Chromium	0.0013U	0.050	0.0013	mg/L
7440-48-4	Cobalt	0.0029U	0.050	0.0029	mg/L
7440-50-8	Copper	0.0050U	0.050	0.0050	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**147**	**0.50**	**0.082**	**mg/L**
7439-96-5	**Manganese**	**1.02**	**0.075**	**0.0066**	**mg/L**
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**3.01**	**2.50**	**0.18**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	**Silver**	**0.0046J**	**0.050**	**0.0035**	**mg/L**
7440-23-5	**Sodium**	**119**	**5.00**	**0.31**	**mg/L**
7440-28-0	Thallium	0.015U	0.10	0.015	mg/L
7440-62-2	**Vanadium**	**0.015J**	**0.10**	**0.0062**	**mg/L**
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/04/2013 16:27	AWG	500239

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	**Iron**	**0.66**	**0.50**	**0.063**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/23/2013 14:35	DJH	499497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3510**	**10.0**		**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	01/23/2013 15:18	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**3.94**	**0.500**	**0.090**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231410	**MW-08-02**	Water	01/22/2013 10:45	01/23/2013 09:50

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	01/23/2013 19:42	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**1940**	**100**	**57.5**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/23/2013 20:17	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.132J**	**0.500**	**0.115**	**mg/L**
14797-65-0	Nitrite	0.015U	0.500	0.015	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	01/23/2013 20:35	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**116**	**5.00**	**3.15**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231411	**MW-08-01**	Water	01/22/2013 11:00	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 18:06	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**23.8**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**4.97J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	**2-Butanone**	**39.2**	**5.00**	**0.142**	**ug/L**
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**6.98**	**5.00**	**0.193**	**ug/L**
71-43-2	**Benzene**	**0.584J**	**5.00**	**0.111**	**ug/L**
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231411	**MW-08-01**	Water	01/22/2013 11:00	01/23/2013 09:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 18:06	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	**tert-Butylbenzene**	**0.784J**	**5.00**	**0.087**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.3	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	49.1	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	48.6	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.5	ug/L	101	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499482	SW-846 7470A Dissolved	1	01/28/2013 18:26	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00011J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 12:20	499481	SW-846 7470A	1	01/28/2013 17:46	AWG	499538

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231411	**MW-08-01**	Water	01/22/2013 11:00	01/23/2013 09:50

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/01/2013 21:50	BNB	500093

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.15U	1.00	0.15	mg/L
7440-36-0	**Antimony**	**0.020J**	**0.30**	**0.016**	**mg/L**
7440-38-2	Arsenic	0.018U	0.050	0.018	mg/L
7440-39-3	**Barium**	**0.010J**	**0.050**	**0.0035**	**mg/L**
7440-41-7	Beryllium	0.00051U	0.025	0.00051	mg/L
7440-43-9	Cadmium	0.00079U	0.025	0.00079	mg/L
7440-70-2	**Calcium**	**420**	**0.50**	**0.23**	**mg/L**
7440-47-3	Chromium	0.0013U	0.050	0.0013	mg/L
7440-48-4	Cobalt	0.0029U	0.050	0.0029	mg/L
7440-50-8	Copper	0.0050U	0.050	0.0050	mg/L
7439-92-1	Lead	0.0098U	0.075	0.0098	mg/L
7439-95-4	**Magnesium**	**515**	**0.50**	**0.082**	**mg/L**
7439-96-5	**Manganese**	**1.84**	**0.075**	**0.0066**	**mg/L**
7440-02-0	Nickel	0.0057U	0.20	0.0057	mg/L
7440-09-7	**Potassium**	**4.28**	**2.50**	**0.18**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0035U	0.050	0.0035	mg/L
7440-23-5	**Sodium**	**1580**	**5.00**	**0.31**	**mg/L**
7440-28-0	**Thallium**	**0.035J**	**0.10**	**0.015**	**mg/L**
7440-62-2	Vanadium	0.0062U	0.10	0.0062	mg/L
7440-66-6	Zinc	0.023U	0.10	0.023	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/24/2013 10:20	499478	SW-846 3005 Dissolved	5	02/04/2013 16:35	AWG	500239

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	**Iron**	**6.07**	**0.50**	**0.063**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/23/2013 14:35	DJH	499497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**8170**	**10.0**		**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231411	**MW-08-01**	Water	01/22/2013 11:00	01/23/2013 09:50

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	01/23/2013 16:11	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16984-48-8	**Fluoride**	**3.28**	**1.00**	**0.180**	**mg/L**
14797-55-8	Nitrate	1.15U	5.00	1.15	mg/L
14797-65-0	Nitrite	0.150U	5.00	0.150	mg/L

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	01/23/2013 20:00	AEL	499392

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**556**	**100**	**63.0**	**mg/L**
14808-79-8	**Sulfate**	**5470**	**200**	**115**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231412	**TRIP BLANK**	Water	01/22/2013 00:00	01/23/2013 09:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 18:28	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231412	**TRIP BLANK**	Water	01/22/2013 00:00	01/23/2013 09:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 18:28	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231413	TRIP BLANK	Water	01/22/2013 00:00	01/23/2013 09:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 18:49	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231413	**TRIP BLANK**	Water	01/22/2013 00:00	01/23/2013 09:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 18:49	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	42.5	ug/L	85	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	51.2	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.1	ug/L	104	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231414	**TRIP BLANK**	Water	01/22/2013 00:00	01/23/2013 09:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 19:10	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**0.988J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21301231414	**TRIP BLANK**	Water	01/22/2013 00:00	01/23/2013 09:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/25/2013 19:10	JCK	499617

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	43.3	ug/L	87	84 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.4	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51	ug/L	102	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 499539		**Client ID**	MB499539			LCS499539			LCSD499539		
Prep Batch N/A		**GCAL ID**	1152845			1152846			1152847		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	01/24/2013 11:09			01/24/2013 08:59			01/24/2013 09:20		
		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	0.193U	0.193		50.0	46.0	92	59 - 134	48.8	98	6	30
74-97-5	Bromochloromethane	0.127U	0.127		50.0	51.9	104	78 - 112	52.6	105	1	30
75-27-4	Bromodichloromethane	0.083U	0.083		50.0	51.2	102	76 - 116	52.2	104	2	30
75-25-2	Bromoform	0.215U	0.215		50.0	49.6	99	68 - 128	52.8	106	6	30
74-83-9	Bromomethane	0.427U	0.427		50.0	39.7	79	55 - 151	44.1	88	11	30
75-15-0	Carbon disulfide	0.190U	0.190		50.0	57.4	115	67 - 147	57.7	115	0.5	30
56-23-5	Carbon tetrachloride	0.248U	0.248		50.0	49.4	99	74 - 139	50.1	100	1	30
75-00-3	Chloroethane	0.235U	0.235		50.0	48.1	96	54 - 166	51.2	102	6	30
136777-61-2	m,p-Xylene	0.123U	0.123		100	101	101	83 - 121	102	102	1	30
67-66-3	Chloroform	0.155U	0.155		50.0	50.5	101	85 - 123	52.1	104	3	30
74-87-3	Chloromethane	0.144U	0.144		50.0	51.7	103	55 - 173	52.4	105	1	30
124-48-1	Dibromochloromethane	0.054U	0.054		50.0	51.6	103	74 - 116	53.6	107	4	30
74-95-3	Dibromomethane	0.211U	0.211		50.0	50.9	102	81 - 116	52.2	104	3	30
75-71-8	Dichlorodifluoromethane	0.145U	0.145		50.0	48.8	98	34 - 158	49.2	98	0.8	30
75-34-3	1,1-Dichloroethane	0.171U	0.171		50.0	51.2	102	82 - 127	52.3	105	2	30
107-06-2	1,2-Dichloroethane	0.116U	0.116		50.0	50.5	101	76 - 122	51.6	103	2	30
156-59-2	cis-1,2-Dichloroethene	0.103U	0.103		50.0	50.8	102	81 - 114	51.6	103	2	30
156-60-5	trans-1,2-Dichloroethene	0.077U	0.077		50.0	50.5	101	82 - 126	50.3	101	0.4	30
75-09-2	Methylene chloride	0.149U	0.149		50.0	49.9	100	69 - 125	51.3	103	3	30
78-87-5	1,2-Dichloropropane	0.150U	0.150		50.0	51.4	103	81 - 120	52.1	104	1	30
10061-01-5	cis-1,3-Dichloropropene	0.124U	0.124		50.0	52.0	104	83 - 119	52.7	105	1	30
10061-02-6	trans-1,3-Dichloropropene	0.128U	0.128		50.0	51.8	104	87 - 123	53.1	106	2	30
100-41-4	Ethylbenzene	0.109U	0.109		50.0	51.2	102	87 - 118	51.3	103	0.2	30
591-78-6	2-Hexanone	0.122U	0.122		50.0	49.2	98	58 - 125	52.9	106	7	30
98-82-8	Isopropylbenzene (Cumene)	0.130U	0.130		50.0	50.8	102	87 - 131	51.7	103	2	30
78-93-3	2-Butanone	0.142U	0.142		50.0	47.8	96	61 - 127	51.7	103	8	30
74-88-4	Methyl iodide	0.084U	0.084		50.0	49.0	98	72 - 125	52.9	106	8	30
108-10-1	4-Methyl-2-pentanone	0.120U	0.120		50.0	50.3	101	62 - 125	53.7	107	7	30
103-65-1	n-Propylbenzene	0.727U	0.727		50.0	50.0	100	86 - 125	49.2	98	2	30
100-42-5	Styrene	0.089U	0.089		50.0	52.0	104	78 - 118	53.4	107	3	30
127-18-4	Tetrachloroethene	0.193U	0.193		50.0	50.0	100	80 - 131	49.3	99	1	30
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	0.120		50.0	51.9	104	81 - 119	52.7	105	2	30
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	0.109		50.0	50.5	101	71 - 120	52.5	105	4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 499539	**Client ID**	MB499539	LCS499539	LCSD499539
Prep Batch N/A	**GCAL ID**	1152845	1152846	1152847
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	01/24/2013 11:09	01/24/2013 08:59	01/24/2013 09:20
	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	0.105U	0.105	50.0	50.5	101	68 - 123	51.0	102	1	30
71-55-6	1,1,1-Trichloroethane	0.123U	0.123	50.0	49.8	100	79 - 133	50.7	101	2	30
79-00-5	1,1,2-Trichloroethane	0.159U	0.159	50.0	51.0	102	80 - 114	52.9	106	4	30
75-69-4	Trichlorofluoromethane	0.157U	0.157	50.0	49.8	100	66 - 156	50.9	102	2	30
96-18-4	1,2,3-Trichloropropane	0.065U	0.065	50.0	50.6	101	77 - 115	53.3	107	5	30
95-63-6	1,2,4-Trimethylbenzene	0.084U	0.084	50.0	50.0	100	82 - 120	50.2	100	0.4	30
108-67-8	1,3,5-Trimethylbenzene	0.066U	0.066	50.0	49.9	100	83 - 123	50.0	100	0.2	30
75-01-4	Vinyl chloride	0.127U	0.127	50.0	48.1	96	57 - 153	49.9	100	4	30
95-47-6	o-Xylene	0.055U	0.055	50.0	51.1	102	83 - 121	53.3	107	4	30
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	0.194	50.0	50.7	101	61 - 118	54.1	108	6	30
106-93-4	1,2-Dibromoethane	0.102U	0.102	50.0	50.5	101	80 - 115	53.1	106	5	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078	50.0	50.6	101	75 - 116	52.7	105	4	30
540-59-0	1,2-Dichloroethene(Total)	0.180U	0.180	100	101	101	74 - 128	102	102	1	30
99-87-6	4-Isopropyltoluene	0.070U	0.070	50.0	50.6	101	83 - 125	50.2	100	0.8	30
1330-20-7	Xylene (total)	0.179U	0.179	150	153	102	74 - 127	155	103	1	30
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	0.264	50.0	51.8	104	51 - 137	54.2	108	5	30
594-20-7	2,2-Dichloropropane	0.170U	0.170	50.0	50.0	100	77 - 138	50.2	100	0.4	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158	50.0	59.1	118	74 - 139	58.3	117	1	30
563-58-6	1,1-Dichloropropene	0.052U	0.052	50.0	49.2	98	87 - 127	50.0	100	2	30
142-28-9	1,3-Dichloropropane	0.059U	0.059	50.0	51.1	102	81 - 113	53.3	107	4	30
108-86-1	Bromobenzene	0.145U	0.145	50.0	49.3	99	83 - 115	50.5	101	2	30
95-49-8	2-Chlorotoluene	0.080U	0.080	50.0	50.3	101	81 - 121	49.9	100	0.8	30
106-43-4	4-Chlorotoluene	0.124U	0.124	50.0	50.3	101	84 - 120	50.2	100	0.2	30
98-06-6	tert-Butylbenzene	0.087U	0.087	50.0	49.9	100	83 - 126	49.8	100	0.2	30
135-98-8	sec-Butylbenzene	0.107U	0.107	50.0	49.5	99	86 - 127	48.7	97	2	30
541-73-1	1,3-Dichlorobenzene	0.138U	0.138	50.0	49.9	100	86 - 115	50.4	101	1	30
106-46-7	1,4-Dichlorobenzene	0.083U	0.083	50.0	50.0	100	87 - 113	50.0	100	0	30
104-51-8	n-Butylbenzene	0.123U	0.123	50.0	50.0	100	84 - 124	49.5	99	1	30
95-50-1	1,2-Dichlorobenzene	0.135U	0.135	50.0	50.5	101	85 - 115	50.4	101	0.2	30
87-68-3	Hexachlorobutadiene	0.265U	0.265	50.0	49.5	99	71 - 133	49.7	99	0.4	30
91-20-3	Naphthalene	0.176U	0.176	50.0	51.6	103	59 - 125	53.5	107	4	35
75-35-4	1,1-Dichloroethene	0.208U	0.208	50.0	58.0	116	75 - 133	58.0	116	0	20
71-43-2	Benzene	0.111U	0.111	50.0	50.4	101	83 - 124	51.3	103	2	20

GC/MS Volatiles Quality Control Summary

Analytical Batch 499539		**Client ID**	MB499539			LCS499539			LCSD499539		
Prep Batch N/A		**GCAL ID**	1152845			1152846			1152847		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	01/24/2013 11:09			01/24/2013 08:59			01/24/2013 09:20		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.161U	0.161	50.0	49.8	100	85 - 124	50.2	100	0.8	20
108-88-3	Toluene		0.122U	0.122	50.0	50.9	102	86 - 116	51.8	104	2	20
108-90-7	Chlorobenzene		0.083U	0.083	50.0	51.4	103	87 - 115	51.9	104	1	20
Surrogate												
460-00-4	4-Bromofluorobenzene		50.6	101	50	50.7	101	84 - 120	51.6	103		
1868-53-7	Dibromofluoromethane		49.8	100	50	49.9	100	87 - 116	49.4	99		
2037-26-5	Toluene d8		50.2	100	50	49.6	99	86 - 112	50.2	100		
17060-07-0	1,2-Dichloroethane-d4		49.6	99	50	49.1	98	76 - 127	49.7	99		

Analytical Batch 499539		**Client ID**	MW-08-06			MW-08-06 MS			MW-08-06 MSD		
Prep Batch N/A		**GCAL ID**	21301231402			21301231403			21301231404		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	01/24/2013 18:20			01/24/2013 19:06			01/24/2013 19:27		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**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	0.120	50.0	51.2	102	81 - 119	50.9	102	0.6	10
71-55-6	1,1,1-Trichloroethane		0.00	0.123	50.0	49.7	99	79 - 133	49.5	99	0.4	11
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.109	50.0	54.0	108	71 - 120	55.1	110	2	11
79-00-5	1,1,2-Trichloroethane		0.00	0.159	50.0	52.3	105	80 - 114	52.3	105	0	11
75-34-3	1,1-Dichloroethane		0.00	0.171	50.0	50.6	101	82 - 127	51.1	102	1	10
75-35-4	1,1-Dichloroethene		0.00	0.208	50.0	59.7	119	75 - 133	58.5	117	2	13
563-58-6	1,1-Dichloropropene		0.00	0.052	50.0	49.4	99	87 - 127	48.3	97	2	10
96-18-4	1,2,3-Trichloropropane		0.00	0.065	50.0	55.2	110	77 - 115	56.6	113	3	12
120-82-1	1,2,4-Trichlorobenzene		0.00	0.105	50.0	49.8	100	68 - 123	46.7	93	6	11
95-63-6	1,2,4-Trimethylbenzene		0.00	0.084	50.0	49.2	98	82 - 120	47.5	95	4	10
96-12-8	1,2-Dibromo-3-chloropropane		0.00	0.194	50.0	57.1	114	61 - 118	58.8	118	3	15
106-93-4	1,2-Dibromoethane		0.00	0.102	50.0	52.4	105	80 - 115	52.5	105	0.2	10
95-50-1	1,2-Dichlorobenzene		0.00	0.135	50.0	49.2	98	85 - 115	48.7	97	1	9
107-06-2	1,2-Dichloroethane		0.00	0.116	50.0	52.0	104	76 - 122	51.8	104	0.4	11
540-59-0	1,2-Dichloroethene(Total)		0.00	0.180	100	101	101	74 - 128	101	101	0	30
78-87-5	1,2-Dichloropropane		0.00	0.150	50.0	53.1	106	81 - 120	52.4	105	1	11

GC/MS Volatiles Quality Control Summary

Analytical Batch 499539	**Client ID**	MW-08-06	MW-08-06 MS	MW-08-06 MSD	
Prep Batch N/A	**GCAL ID**	21301231402	21301231403	21301231404	
	Sample Type	SAMPLE	MS	MSD	
	Analytical Date	01/24/2013 18:20	01/24/2013 19:06	01/24/2013 19:27	
	Matrix	Water	Water	Water	

SW-846 8260B Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
108-67-8	1,3,5-Trimethylbenzene	0.00	0.066	50.0	48.7	97	83 - 123	46.9	94	4	10
541-73-1	1,3-Dichlorobenzene	0.00	0.138	50.0	49.4	99	86 - 115	48.1	96	3	9
142-28-9	1,3-Dichloropropane	0.00	0.059	50.0	53.3	107	81 - 113	53.3	107	0	11
106-46-7	1,4-Dichlorobenzene	0.00	0.083	50.0	48.9	98	87 - 113	48.0	96	2	10
594-20-7	2,2-Dichloropropane	0.00	0.170	50.0	50.0	100	77 - 138	49.4	99	1	12
78-93-3	2-Butanone	0.00	0.142	50.0	44.7	89	61 - 127	44.6	89	0.2	13
95-49-8	2-Chlorotoluene	0.00	0.080	50.0	49.0	98	81 - 121	48.2	96	2	10
591-78-6	2-Hexanone	0.00	0.122	50.0	54.4	109	58 - 125	53.8	108	1	14
106-43-4	4-Chlorotoluene	0.00	0.124	50.0	49.3	99	84 - 120	48.5	97	2	10
99-87-6	4-Isopropyltoluene	0.00	0.070	50.0	50.0	100	83 - 125	46.2	92	8	9
108-10-1	4-Methyl-2-pentanone	0.00	0.120	50.0	60.9	122	62 - 125	60.6	121	0.5	13
67-64-1	Acetone	1.06	0.193	50.0	31.7	61	59 - 134	32.1	62	1	14
71-43-2	Benzene	0.00	0.111	50.0	50.8	102	83 - 124	50.8	102	0	11
108-86-1	Bromobenzene	0.00	0.145	50.0	49.6	99	83 - 115	49.5	99	0.2	10
74-97-5	Bromochloromethane	0.00	0.127	50.0	51.9	104	78 - 112	50.6	101	3	10
75-27-4	Bromodichloromethane	0.00	0.083	50.0	51.9	104	76 - 116	51.9	104	0	10
75-25-2	Bromoform	0.00	0.215	50.0	51.9	104	68 - 128	51.6	103	0.6	11
74-83-9	Bromomethane	0.00	0.427	50.0	39.6	79	55 - 151	44.9	90	13	21
75-15-0	Carbon disulfide	0.00	0.190	50.0	58.7	117	67 - 147	57.3	115	2	12
56-23-5	Carbon tetrachloride	0.00	0.248	50.0	49.9	100	74 - 139	49.2	98	1	13
108-90-7	Chlorobenzene	0.00	0.083	50.0	50.8	102	87 - 115	49.9	100	2	9
75-00-3	Chloroethane	0.00	0.235	50.0	45.1	90	54 - 166	43.7	87	3	20
67-66-3	Chloroform	0.00	0.155	50.0	51.7	103	85 - 123	51.7	103	0	10
74-87-3	Chloromethane	0.00	0.144	50.0	51.1	102	55 - 173	53.3	107	4	22
124-48-1	Dibromochloromethane	0.00	0.054	50.0	53.1	106	74 - 116	52.3	105	2	11
74-95-3	Dibromomethane	0.00	0.211	50.0	51.7	103	81 - 116	52.0	104	0.6	10
75-71-8	Dichlorodifluoromethane	0.00	0.145	50.0	49.6	99	34 - 158	48.8	98	2	22
100-41-4	Ethylbenzene	0.00	0.109	50.0	50.4	101	87 - 118	48.8	98	3	10
87-68-3	Hexachlorobutadiene	0.00	0.265	50.0	56.9	114	71 - 133	45.0	90	**23***	12
98-82-8	Isopropylbenzene (Cumene)	0.00	0.130	50.0	50.4	101	87 - 131	47.7	95	6	10
74-88-4	Methyl iodide	0.00	0.084	50.0	53.0	106	72 - 125	55.9	112	5	11
75-09-2	Methylene chloride	0.00	0.149	50.0	49.2	98	69 - 125	51.5	103	5	11
91-20-3	Naphthalene	0.00	0.176	50.0	53.5	107	59 - 125	53.8	108	0.6	15

GC/MS Volatiles Quality Control Summary

Analytical Batch 499539		**Client ID**	MW-08-06			MW-08-06 MS			MW-08-06 MSD		
Prep Batch N/A		**GCAL ID**	21301231402			21301231403			21301231404		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	01/24/2013 18:20			01/24/2013 19:06			01/24/2013 19:27		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-42-5	Styrene		0.00	0.089	50.0	51.6	103	78 - 118	50.4	101	2	11
127-18-4	Tetrachloroethene		0.00	0.193	50.0	49.4	99	80 - 131	46.4	93	6	12
108-88-3	Toluene		0.00	0.122	50.0	51.2	102	86 - 116	49.7	99	3	10
79-01-6	Trichloroethene		0.00	0.161	50.0	48.4	97	85 - 124	48.6	97	0.4	10
75-69-4	Trichlorofluoromethane		0.00	0.157	50.0	49.2	98	66 - 156	48.6	97	1	15
76-13-1	Trichlorotrifluoroethane		0.00	0.158	50.0	60.9	122	74 - 139	57.3	115	6	13
75-01-4	Vinyl chloride		0.00	0.127	50.0	47.5	95	57 - 153	47.8	96	0.6	22
1330-20-7	Xylene (total)		0.00	0.179	150	151	101	74 - 127	147	98	3	30
156-59-2	cis-1,2-Dichloroethene		0.00	0.103	50.0	50.3	101	81 - 114	50.3	101	0	10
10061-01-5	cis-1,3-Dichloropropene		0.00	0.124	50.0	52.5	105	83 - 119	52.2	104	0.6	10
136777-61-2	m,p-Xylene		0.00	0.123	100	99.8	100	83 - 121	96.8	97	3	10
104-51-8	n-Butylbenzene		0.00	0.123	50.0	49.2	98	84 - 124	44.2	88	**11***	10
103-65-1	n-Propylbenzene		0.00	0.727	50.0	48.8	98	86 - 125	46.6	93	5	10
95-47-6	o-Xylene		0.00	0.055	50.0	51.1	102	83 - 121	50.0	100	2	10
135-98-8	sec-Butylbenzene		0.00	0.107	50.0	48.5	97	86 - 127	45.0	90	7	10
1634-04-4	tert-Butyl methyl ether (MTBE)		0.00	0.078	50.0	51.7	103	75 - 116	52.2	104	1	10
98-06-6	tert-Butylbenzene		0.00	0.087	50.0	48.7	97	83 - 126	46.3	93	5	10
156-60-5	trans-1,2-Dichloroethene		0.00	0.077	50.0	50.3	101	82 - 126	50.2	100	0.2	10
10061-02-6	trans-1,3-Dichloropropene		0.00	0.128	50.0	52.4	105	87 - 123	52.9	106	0.9	10
110-57-6	trans-1,4-Dichloro-2-butene		0.00	0.264	50.0	60.0	120	51 - 137	59.1	118	2	24
Surrogate												
460-00-4	4-Bromofluorobenzene		50.9	102	50	50.7	101	84 - 120	50.4	101		
1868-53-7	Dibromofluoromethane		49.5	99	50	49.7	99	87 - 116	50	100		
2037-26-5	Toluene d8		51	102	50	50.1	100	86 - 112	49.6	99		
17060-07-0	1,2-Dichloroethane-d4		50.4	101	50	51.9	104	76 - 127	52.2	104		

GC/MS Volatiles Quality Control Summary

Analytical Batch 499617		**Client ID**	MB499617			LCS499617			LCSD499617		
Prep Batch N/A		**GCAL ID**	1153321			1153322			1153323		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	01/25/2013 12:15			01/25/2013 10:26			01/25/2013 10:47		
		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	0.193U		0.193	50.0	42.8	86	59 - 134	45.2	90	5	30
74-97-5	Bromochloromethane	0.127U		0.127	50.0	48.2	96	78 - 112	49.1	98	2	30
75-27-4	Bromodichloromethane	0.083U		0.083	50.0	47.9	96	76 - 116	48.5	97	1	30
75-25-2	Bromoform	0.215U		0.215	50.0	45.6	91	68 - 128	47.8	96	5	30
74-83-9	Bromomethane	0.427U		0.427	50.0	41.8	84	55 - 151	44.9	90	7	30
75-15-0	Carbon disulfide	0.190U		0.190	50.0	55.2	110	67 - 147	57.7	115	4	30
56-23-5	Carbon tetrachloride	0.248U		0.248	50.0	48.7	97	74 - 139	49.7	99	2	30
75-00-3	Chloroethane	0.235U		0.235	50.0	46.5	93	54 - 166	47.8	96	3	30
136777-61-2	m,p-Xylene	0.123U		0.123	100	96.1	96	83 - 121	97.9	98	2	30
67-66-3	Chloroform	0.155U		0.155	50.0	47.7	95	85 - 123	48.5	97	2	30
74-87-3	Chloromethane	0.144U		0.144	50.0	47.3	95	55 - 173	48.9	98	3	30
124-48-1	Dibromochloromethane	0.054U		0.054	50.0	47.6	95	74 - 116	49.4	99	4	30
74-95-3	Dibromomethane	0.211U		0.211	50.0	46.9	94	81 - 116	48.2	96	3	30
75-71-8	Dichlorodifluoromethane	0.145U		0.145	50.0	48.9	98	34 - 158	49.1	98	0.4	30
75-34-3	1,1-Dichloroethane	0.171U		0.171	50.0	47.9	96	82 - 127	48.9	98	2	30
107-06-2	1,2-Dichloroethane	0.116U		0.116	50.0	47.6	95	76 - 122	48.2	96	1	30
156-59-2	cis-1,2-Dichloroethene	0.103U		0.103	50.0	46.5	93	81 - 114	48.1	96	3	30
156-60-5	trans-1,2-Dichloroethene	0.077U		0.077	50.0	47.9	96	82 - 126	48.3	97	0.8	30
75-09-2	Methylene chloride	0.149U		0.149	50.0	45.2	90	69 - 125	46.6	93	3	30
78-87-5	1,2-Dichloropropane	0.150U		0.150	50.0	47.3	95	81 - 120	48.3	97	2	30
10061-01-5	cis-1,3-Dichloropropene	0.124U		0.124	50.0	48.1	96	83 - 119	49.9	100	4	30
10061-02-6	trans-1,3-Dichloropropene	0.128U		0.128	50.0	48.4	97	87 - 123	49.3	99	2	30
100-41-4	Ethylbenzene	0.109U		0.109	50.0	48.0	96	87 - 118	49.3	99	3	30
591-78-6	2-Hexanone	0.122U		0.122	50.0	45.8	92	58 - 125	48.3	97	5	30
98-82-8	Isopropylbenzene (Cumene)	0.130U		0.130	50.0	48.8	98	87 - 131	49.4	99	1	30
78-93-3	2-Butanone	0.142U		0.142	50.0	45.0	90	61 - 127	47.0	94	4	30
74-88-4	Methyl iodide	0.084U		0.084	50.0	51.3	103	72 - 125	57.3	115	11	30
108-10-1	4-Methyl-2-pentanone	0.120U		0.120	50.0	47.2	94	62 - 125	49.1	98	4	30
103-65-1	n-Propylbenzene	0.727U		0.727	50.0	48.1	96	86 - 125	47.3	95	2	30
100-42-5	Styrene	0.089U		0.089	50.0	48.3	97	78 - 118	49.8	100	3	30
127-18-4	Tetrachloroethene	0.193U		0.193	50.0	48.6	97	80 - 131	48.8	98	0.4	30
630-20-6	1,1,1,2-Tetrachloroethane	0.120U		0.120	50.0	47.3	95	81 - 119	49.6	99	5	30
79-34-5	1,1,2,2-Tetrachloroethane	0.109U		0.109	50.0	47.0	94	71 - 120	47.9	96	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	499617	**Client ID**	MB499617			LCS499617			LCSD499617			
Prep Batch	N/A	**GCAL ID**	1153321			1153322			1153323			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	01/25/2013 12:15			01/25/2013 10:26			01/25/2013 10:47			
		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	0.105U		0.105	50.0	47.3	95	68 - 123	46.9	94	0.8	30
71-55-6	1,1,1-Trichloroethane	0.123U		0.123	50.0	48.2	96	79 - 133	48.9	98	1	30
79-00-5	1,1,2-Trichloroethane	0.159U		0.159	50.0	47.9	96	80 - 114	49.3	99	3	30
75-69-4	Trichlorofluoromethane	0.157U		0.157	50.0	46.3	93	66 - 156	43.7	87	6	30
96-18-4	1,2,3-Trichloropropane	0.065U		0.065	50.0	47.3	95	77 - 115	48.4	97	2	30
95-63-6	1,2,4-Trimethylbenzene	0.084U		0.084	50.0	48.0	96	82 - 120	47.3	95	1	30
108-67-8	1,3,5-Trimethylbenzene	0.066U		0.066	50.0	48.1	96	83 - 123	47.7	95	0.8	30
75-01-4	Vinyl chloride	0.127U		0.127	50.0	46.8	94	57 - 153	48.0	96	3	30
95-47-6	o-Xylene	0.055U		0.055	50.0	48.2	96	83 - 121	49.8	100	3	30
96-12-8	1,2-Dibromo-3-chloropropane	0.194U		0.194	50.0	47.8	96	61 - 118	49.2	98	3	30
106-93-4	1,2-Dibromoethane	0.102U		0.102	50.0	46.7	93	80 - 115	48.9	98	5	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U		0.078	50.0	46.6	93	75 - 116	48.3	97	4	30
540-59-0	1,2-Dichloroethene(Total)	0.180U		0.180	100	94.4	94	74 - 128	96.5	97	2	30
99-87-6	4-Isopropyltoluene	0.070U		0.070	50.0	48.7	97	83 - 125	48.4	97	0.6	30
1330-20-7	Xylene (total)	0.179U		0.179	150	144	96	74 - 127	148	99	3	30
110-57-6	trans-1,4-Dichloro-2-butene	0.264U		0.264	50.0	49.0	98	51 - 137	49.4	99	0.8	30
594-20-7	2,2-Dichloropropane	0.170U		0.170	50.0	48.1	96	77 - 138	48.4	97	0.6	30
76-13-1	Trichlorotrifluoroethane	0.158U		0.158	50.0	59.6	119	74 - 139	60.4	121	1	30
563-58-6	1,1-Dichloropropene	0.052U		0.052	50.0	48.4	97	87 - 127	48.2	96	0.4	30
142-28-9	1,3-Dichloropropane	0.059U		0.059	50.0	47.0	94	81 - 113	48.5	97	3	30
108-86-1	Bromobenzene	0.145U		0.145	50.0	46.7	93	83 - 115	46.8	94	0.2	30
95-49-8	2-Chlorotoluene	0.080U		0.080	50.0	46.9	94	81 - 121	47.2	94	0.6	30
106-43-4	4-Chlorotoluene	0.124U		0.124	50.0	47.2	94	84 - 120	46.7	93	1	30
98-06-6	tert-Butylbenzene	0.087U		0.087	50.0	48.4	97	83 - 126	48.3	97	0.2	30
135-98-8	sec-Butylbenzene	0.107U		0.107	50.0	48.7	97	86 - 127	47.7	95	2	30
541-73-1	1,3-Dichlorobenzene	0.138U		0.138	50.0	47.0	94	86 - 115	47.0	94	0	30
106-46-7	1,4-Dichlorobenzene	0.083U		0.083	50.0	46.9	94	87 - 113	46.6	93	0.6	30
104-51-8	n-Butylbenzene	0.123U		0.123	50.0	48.2	96	84 - 124	47.1	94	2	30
95-50-1	1,2-Dichlorobenzene	0.135U		0.135	50.0	47.1	94	85 - 115	47.4	95	0.6	30
87-68-3	Hexachlorobutadiene	0.265U		0.265	50.0	47.2	94	71 - 133	46.1	92	2	30
91-20-3	Naphthalene	0.176U		0.176	50.0	47.5	95	59 - 125	49.0	98	3	35
75-35-4	1,1-Dichloroethene	0.208U		0.208	50.0	56.8	114	75 - 133	58.4	117	3	20
71-43-2	Benzene	0.111U		0.111	50.0	47.6	95	83 - 124	48.1	96	1	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	499617	**Client ID**	MB499617			LCS499617			LCSD499617			
Prep Batch	N/A	**GCAL ID**	1153321			1153322			1153323			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	01/25/2013 12:15			01/25/2013 10:26			01/25/2013 10:47			
		Matrix	Water			Water			Water			
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.161U	0.161	50.0	47.0	94	85 - 124	47.9	96	2	20
108-88-3	Toluene		0.122U	0.122	50.0	47.6	95	86 - 116	48.8	98	2	20
108-90-7	Chlorobenzene		0.083U	0.083	50.0	47.3	95	87 - 115	48.4	97	2	20
Surrogate												
460-00-4	4-Bromofluorobenzene		49.7	99	50	50	100	84 - 120	51.1	102		
1868-53-7	Dibromofluoromethane		49	98	50	49.8	100	87 - 116	49.6	99		
2037-26-5	Toluene d8		50.3	101	50	49.9	100	86 - 112	50.1	100		
17060-07-0	1,2-Dichloroethane-d4		49.7	99	50	49.9	100	76 - 127	49.1	98		

Inorganics Quality Control Summary

Analytical Batch	499538	**Client ID**	MB499482		LCS499482		
Prep Batch	499482	**GCAL ID**	1152584		1152585		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	01/24/2013 10:20		01/24/2013 10:20		
		Analytical Date	01/28/2013 17:55		01/28/2013 18:02		
		Matrix	Water		Water		
SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000068U	0.000068	0.00500	0.00508	102	88 - 111

Analytical Batch	499538	**Client ID**	MW-08-06		MW-08-06 MS			MW-08-06 MSD			
Prep Batch	499482	**GCAL ID**	21301231402		21301231403			21301231404			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	01/24/2013 10:20		01/24/2013 10:20			01/24/2013 10:20			
	Dissolved	**Analytical Date**	01/28/2013 18:03		01/28/2013 18:05			01/28/2013 18:06			
		Matrix	Water		Water			Water			
SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.000068	0.00500	0.00482	96	75 - 125	0.00431	86	**11***	10

Inorganics Quality Control Summary

Analytical Batch	499538	**Client ID**	MB499481			LCS499481		
Prep Batch	499481	**GCAL ID**	1152582			1152583		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	01/24/2013 12:20			01/24/2013 12:20		
		Analytical Date	01/28/2013 17:18			01/28/2013 17:20		
		Matrix	Water			Water		
SW-846 7470A			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.00008J	0.000068	0.00500	0.00548	110	88 - 111

Analytical Batch	499538	**Client ID**	MW-08-06			MW-08-06 MS			MW-08-06 MSD			
Prep Batch	499481	**GCAL ID**	21301231402			21301231403			21301231404			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	01/24/2013 12:20			01/24/2013 12:20			01/24/2013 12:20			
		Analytical Date	01/28/2013 17:22			01/28/2013 17:23			01/28/2013 17:25			
		Matrix	Water			Water			Water			
SW-846 7470A Water			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.00000	0.000068	0.00500	0.00420	84	75 - 125	0.00380	76	10	20

Inorganics Quality Control Summary

Analytical Batch	500093	**Client ID**	MB499478	LCS499478
Prep Batch	499478	**GCAL ID**	1152568	1152569
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	01/24/2013 10:20	01/24/2013 10:20
		Analytical Date	02/01/2013 17:48	02/01/2013 17:55
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.030U	0.030	5.00	4.77	95	87 - 111
7440-36-0	Antimony	0.0031U	0.0031	0.50	0.47	95	88 - 108
7440-38-2	Arsenic	0.0036U	0.0036	0.50	0.49	98	88 - 109
7440-39-3	Barium	0.00071U	0.00071	0.50	0.47	94	92 - 112
7440-41-7	Beryllium	0.00010U	0.00010	0.50	0.47	93	89 - 113
7440-43-9	Cadmium	0.00028J	0.00016	0.50	0.48	96	88 - 111
7440-70-2	Calcium	0.046U	0.046	5.00	4.78	96	90 - 111
7440-47-3	Chromium	0.00026U	0.00026	0.50	0.47	94	90 - 113
7440-48-4	Cobalt	0.00058U	0.00058	0.50	0.48	95	89 - 111
7440-50-8	Copper	0.0010U	0.0010	0.50	0.46	93	86 - 112
7439-89-6	Iron	0.013U	0.013	5.00	4.74	95	89 - 116
7439-92-1	Lead	0.0020U	0.0020	0.50	0.48	95	89 - 109
7439-95-4	Magnesium	0.016U	0.016	5.00	4.90	98	92 - 113
7439-96-5	Manganese	0.0013U	0.0013	0.50	0.47	95	90 - 110
7440-02-0	Nickel	0.0011U	0.0011	0.50	0.48	95	89 - 111
7440-09-7	Potassium	0.035U	0.035	10.0	9.43	94	89 - 114
7782-49-2	Selenium	0.0044U	0.0044	0.50	0.48	96	90 - 110
7440-22-4	Silver	0.00070U	0.00070	0.50	0.47	95	86 - 120
7440-23-5	Sodium	0.061U	0.061	20.0	19.2	96	90 - 117
7440-28-0	Thallium	0.0030U	0.0030	0.50	0.48	95	88 - 108
7440-62-2	Vanadium	0.0012U	0.0012	0.50	0.46	91	91 - 111
7440-66-6	Zinc	0.0045U	0.0045	0.50	0.48	97	84 - 111

Inorganics Quality Control Summary

Analytical Batch	500093	**Client ID**	MW-08-06	MW-08-06 MS	MW-08-06 MSD
Prep Batch	499478	**GCAL ID**	21301231402	21301231403	21301231404
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	01/24/2013 10:20	01/24/2013 10:20	01/24/2013 10:20
		Analytical Date	02/01/2013 20:13	02/01/2013 20:21	02/01/2013 20:27
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.15	5.00	4.82	96	83 - 119	5.27	105	9	25
7440-36-0	Antimony	0.015	0.016	0.50	0.53	103	81 - 124	0.55	106	4	25
7440-38-2	Arsenic	0.0	0.018	0.50	0.41	**81***	84 - 124	0.42	**83***	2	25
7440-39-3	Barium	0.0087	0.0035	0.50	0.50	97	85 - 120	0.52	102	4	25
7440-41-7	Beryllium	0.0	0.00051	0.50	0.47	93	79 - 121	0.48	97	4	25
7440-43-9	Cadmium	0.0	0.00079	0.50	0.45	91	82 - 119	0.47	95	4	25
7440-70-2	Calcium	535	0.23	5.00	528	**-100***	48 - 153	554	**372***	5	25
7440-47-3	Chromium	0.0	0.0013	0.50	0.39	77	73 - 135	0.40	80	3	25
7440-48-4	Cobalt	0.0025	0.0029	0.50	0.48	95	82 - 119	0.50	99	4	25
7440-50-8	Copper	0.0	0.0050	0.50	0.50	99	82 - 129	0.54	108	8	25
7439-92-1	Lead	0.0	0.0098	0.50	0.45	90	62 - 146	0.48	96	6	25
7439-95-4	Magnesium	937	0.082	5.00	921	**-300***	62 - 146	991	**1070***	7	25
7439-96-5	Manganese	0.0	0.0066	0.50	0.47	95	79 - 121	0.50	100	5	25
7440-02-0	Nickel	0.0	0.0057	0.50	0.46	91	84 - 120	0.47	95	4	25
7440-09-7	Potassium	23.4	0.18	10.0	32.9	95	76 - 132	33.9	105	3	25
7782-49-2	Selenium	0.0	0.022	0.50	0.25	**50***	71 - 140	0.30	**59***	17	25
7440-22-4	Silver	0.0077	0.0035	0.50	0.51	100	75 - 141	0.54	106	6	25
7440-28-0	Thallium	0.032	0.015	0.50	0.47	**88***	90 - 116	0.51	95	7	25
7440-62-2	Vanadium	0.064	0.0062	0.50	0.54	95	85 - 120	0.60	107	10	25
7440-66-6	Zinc	0.0	0.023	0.50	0.45	90	60 - 137	0.48	96	6	25

Analytical Batch	500093	**Client ID**	MW-08-06	MW-08-06 MS	MW-08-06 MSD
Prep Batch	499478	**GCAL ID**	21301231402	21301231403	21301231404
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	01/24/2013 10:20	01/24/2013 10:20	01/24/2013 10:20
		Analytical Date	02/01/2013 18:01	02/01/2013 18:08	02/01/2013 18:15
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	5140	3.05	20.0	4980	**-800***	70 - 203	5380	**1160***	8	25

Inorganics Quality Control Summary

Analytical Batch	500325	**Client ID**	MW-08-06			MW-08-06 MS			MW-08-06 MSD			
Prep Batch	499478	**GCAL ID**	21301231402			21301231403			21301231404			
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD			
	Dissolved	**Prep Date**	01/24/2013 10:20			01/24/2013 10:20			01/24/2013 10:20			
		Analytical Date	02/05/2013 22:38			02/05/2013 22:46			02/05/2013 22:52			
		Matrix	Water			Water			Water			
SW-846 6010B Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-89-6	Iron		0.0	0.063	5.00	4.54	91	52 - 155	4.77	95	5	25

General Chemistry Quality Control Summary

Analytical Batch 499497	**Client ID**	MB499497			LCS499497		
Prep Batch N/A	**GCAL ID**	1152638			1152639		
	Sample Type	Method Blank			LCS		
	Analytical Date	01/23/2013 14:35			01/23/2013 14:35		
	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	1010	101	90 - 110

Analytical Batch 499497	**Client ID**	MW-08-06		1152558DUP		
Prep Batch N/A	**GCAL ID**	21301231402		1152640		
	Sample Type	SAMPLE		DUP		
	Analytical Date	01/23/2013 14:35		01/23/2013 14:35		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	21800		21200	2.7	5

Analytical Batch 499726	**Client ID**	MB499726			LCS499726		
Prep Batch N/A	**GCAL ID**	1154022			1154023		
	Sample Type	Method Blank			LCS		
	Analytical Date	01/28/2013 13:55			01/28/2013 13:55		
	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	955	95.5	90 - 110

Analytical Batch 499726	**Client ID**	OXY #1		1153755DUP		
Prep Batch N/A	**GCAL ID**	21301260401		1154024		
	Sample Type	SAMPLE		DUP		
	Analytical Date	01/28/2013 13:55		01/28/2013 13:55		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	5490	7.00	5360	2.5	5

General Chemistry Quality Control Summary

Analytical Batch 499392		**Client ID**	MB499392		LCS499392		
Prep Batch N/A		**GCAL ID**	1152087		1152088		
		Sample Type	Method Blank		LCS		
		Analytical Date	01/22/2013 18:58		01/22/2013 19:15		
		Matrix	Water		Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.063U	0.063	2.50	2.70	108	80 - 120
14797-55-8	Nitrate	0.115U	0.115	2.50	2.61	104	80 - 120
14797-65-0	Nitrite	0.015U	0.015	2.50	2.55	102	80 - 120
16984-48-8	Fluoride	0.018U	0.018	2.50	2.59	103	80 - 120
14808-79-8	Sulfate	0.115U	0.115	5.00	4.75	95	80 - 120

Analytical Batch 499392		**Client ID**	MW-08-06		MW-08-06 MS			MW-08-06 MSD			
Prep Batch N/A		**GCAL ID**	21301231402		21301231403			21301231404			
		Sample Type	SAMPLE		MS			MSD			
		Analytical Date	01/23/2013 12:57		01/23/2013 13:15			01/23/2013 13:32			
		Matrix	Water		Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16984-48-8	Fluoride	0.000	0.900	125	110	88.1	75 - 125	110	87.8	0.35	25
14797-55-8	Nitrate	19.0	5.75	125	142	98	75 - 125	147	103	3.9	25
14797-65-0	Nitrite	0.000	0.750	125	132	106	75 - 125	131	105	0.82	25

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Page: 1 of 2

NV Project No: 10-0004

COC Number(1): 01-22-2013-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q5)

Client Name: USACE - Omaha District

Collected by: Tony Lucero / Zachary Beck / Dustin McNeil

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Fluoride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)							Quality Assurance Samples (6)				
S10-MW06	S10-MW06	01/21/2013	1500	-	N	1	WG	7	X	X	X	X	X					1	1
MW-08-06	MW-08-06	01/21/2013	1500	-	N	1	WG	7	X	X	X	X	X					1	2
MW-08-06-MS	MW-08-06	01/21/2013	1500	-	MS	1	WG	7	X	X	X	X	X					1	3
MW-08-06-MSD	MW-08-06	01/21/2013	1500		SD	1	WG	7	X	X	X	X	X					1	4
MW-08-03	MW-08-03	01/21/2013	1615		N	1	WG	7	X	X	X	X	X					2	5
MW-08-07	MW-08-07	01/22/2013	0910	-	N	1	WG	7	X	X	X	X	X					2	6
MW-08-07-A	MW-08-07	01/22/2013	0910	-	FD	1	WG	7	X	X	X	X	X					2	7
S10-MW01	S10-MW01	01/22/2013	0915	-	N	1	WG	7	X	X	X	X	X					3	8
S10-MW01-A	S10-MW01	01/22/2013	0915	-	FD	1	WG	7	X	X	X	X	X					3	9
MW-08-02	MW-08-02	01/22/2013	1045	-	N	1	WG	7	X	X	X	X	X					3	10
MW-08-01	MW-08-01	01/22/2013	1100	-	N	1	WG	7	X	X	X	X	X					3	11

COMMENTS: Dissolved TAL Metals filtered in the field

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero			1.		
2. Fed Ex			2. Chauncey	1/23/13	950
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	7945-7157-3888
Analytical Lab:	GCAL	Delivery Location:	Baton Rouge, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

NV Project No: 10-0004

COC Number(1): 1-22-2013

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q5)

Client Name: USACE - Omaha District

Collected by: Tony Lucero / Zachary Beck / Dustin McNeil

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Fluoride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)							Quality Assurance Samples (6)			
Trip Blank	Field QC	22-1-2013		-	TB	1	AQ	1	X									1 12
Trip Blank	Field QC	22-1-2013		-	TB	1	AQ	1	X									2 13
Trip Blank	Field QC	22-1-2013		-	TB	1	AQ	1	X									3
				-														
				-														
				-														
				-														
				-														
				-														

COMMENTS: Dissolved TAL Metals filtered in the field

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero			1.		
2. FedEx			2. Gaucier	1/23/13	950
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	7945-7157-3888
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

NV Project No: 10-0004

COC Number(1): 01-22-2013-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q5)

Client Name: USACE - Omaha District

Collected by: Tony Lucero / Zachary Beck / Dustin McNeil

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Fluoride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)							Quality Assurance Samples (6)			
S10-MW06	S10-MW06	01/21/2013	1500	-	N	1	WG	7	X	X	X	X	X					1
MW-08-06	MW-08-06	01/21/2013	1500	-	N	1	WG	7	X	X	X	X	X					1
MW-08-06-MS	MW-08-06	01/21/2013	1500	-	MS	1	WG	7	X	X	X	X	X					1
MW-08-06-MSD	MW-08-06	01/21/2013	1500		SD	1	WG	7	X	X	X	X	X					1
MW-08-03	MW-08-03	01/21/2013	1615		N	1	WG	7	X	X	X	X	X					2
MW-08-07	MW-08-07	01/22/2013	0910	-	N	1	WG	7	X	X	X	X	X					2
MW-08-07-A	MW-08-07	01/22/2013	0910	-	FD	1	WG	7	X	X	X	X	X					2
S10-MW01	S10-MW01	01/22/2013	0915	-	N	1	WG	7	X	X	X	X	X					3
S10-MW01-A	S10-MW01	01/22/2013	0915	-	FD	1	WG	7	X	X	X	X	X					3
MW-08-02	MW-08-02	01/22/2013	1045	-	N	1	WG	7	X	X	X	X	X					3
MW-08-01	MW-08-01	01/22/2013	1100	-	N	1	WG	7	X	X	X	X	X					3

COMMENTS: Dissolved TAL Metals filtered in the field

3.2

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero	1-22-2013	1600	1.		
2. Dod Ex			2. CJaucer	1/23/13	950
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	7945-7157-3650
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

NV Project No: 10-0004

COC Number(1): 1-22-2013

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q5)

Client Name: USACE - Omaha District

Collected by: Tony Lucero / Zachary Beck / Dustin McNeil

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Fluoride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)							Quality Assurance Samples (6)			
Trip Blank	Field QC	22-1-2013		-	TB	1	AQ	1	X									1
Trip Blank	Field QC	22-1-2013		-	TB	1	AQ	1	X									2
Trip Blank	Field QC	22-1-2013		-	TB	1	AQ	1	X									3
				-														
				-														
				-														
				-														
				-														
				-														

COMMENTS: Dissolved TAL Metals filtered in the field

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero	1-22-2013	1600	1.		
2. Fed Ex			2. [signature]	1/23/13	950
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	7945-7157-3650
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

NV Project No: 10-0004

COC Number(1): 01-22-2013-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q5)

Client Name: USACE - Omaha District

Collected by: Tony Lucero / Zachary Beck / Dustin McNeil

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Fluoride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)							Quality Assurance Samples (6)			
S10-MW06	S10-MW06	01/21/2013	1500	-	N	1	WG	7	X	X	X	X	X					1
MW-08-06	MW-08-06	01/21/2013	1500	-	N	1	WG	7	X	X	X	X	X					1
MW-08-06-MS	MW-08-06	01/21/2013	1500	-	MS	1	WG	7	X	X	X	X	X					1
MW-08-06-MSD	MW-08-06	01/21/2013	1500		SD	1	WG	7	X	X	X	X	X					1
MW-08-03	MW-08-03	01/21/2013	1615		N	1	WG	7	X	X	X	X	X					2
MW-08-07	MW-08-07	01/22/2013	0910	-	N	1	WG	7	X	X	X	X	X					2
MW-08-07-A	MW-08-07	01/22/2013	0910	-	FD	1	WG	7	X	X	X	X	X					2
S10-MW01	S10-MW01	01/22/2013	0915	-	N	1	WG	7	X	X	X	X	X					3
S10-MW01-A	S10-MW01	01/22/2013	0915	-	FD	1	WG	7	X	X	X	X	X					3
MW-08-02	MW-08-02	01/22/2013	1045	-	N	1	WG	7	X	X	X	X	X					3
MW-08-01	MW-08-01	01/22/2013	1100	-	N	1	WG	7	X	X	X	X	X					3

COMMENTS: Dissolved TAL Metals filtered in the field

CS ~~2.7~~ 2.2

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero	1-22-2013	1600	1.		
2. [illegible]			2. [illegible]	1/23/13	950
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	7945-7157-3546
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

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6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

NV Project No: 10-0004

COC Number(1): 1-22-2013

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q5)

Client Name: USACE - Omaha District

Collected by: Tony Lucero / Zachary Beck / Dustin McNeil

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	Chloride, Fluoride, Nitrate/Nitrite, Sulfate (300/9056)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)							Quality Assurance Samples (6)			
Trip Blank	Field QC	22-1-2013		-	TB	1	AQ	1	X									1
Trip Blank	Field QC	22-1-2013		-	TB	1	AQ	1	X									2
Trip Blank	Field QC	22-1-2013		-	TB	1	AQ	1	X									3
				-														
				-														
				-														
				-														
				-														
				-														

COMMENTS: Dissolved TAL Metals filtered in the field

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero	1-22-2013	1600	1.		
2. Fed Ex			2. [signature]	1/23/13	950
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	7945-7157-3546
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
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6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

213012314

SAMPLE DELIVERY GROUP	213012314
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile 204817 - Holloman AFB	**Received By** Saucier, Charlotte
Line Item(s) 3 - SD-08	**Receive Date(s)** 01/23/13

CHECKLIST

	Yes	No	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☐	☑	☐
Was preservative added to any container at the lab?	☑	☐	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☐	☑	☐
Do all sample labels match the Chain of Custody?	☑	☐	☐
Did the Chain of Custody list the sampling technician?	☑	☐	☐
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑	☐	☐

COOLERS

Airbill	Temp(oC)
794571573888	2.1
7945 7157 3650	3.2
794571573546	2.2

DISCREPANCIES

None

LABORATORY PRESERVATIONS

21301231405-5\ HNO3	21301231409-7\ HNO3
21301231411-5\ HNO3	21301231411-7\ HNO3

NOTES

Revision 1.4

D-7

LTM Quarter 6 (Apr 2013, NationView)

Southeast ACCUTEST LABORATORIES

04/10/13

Technical Report for

Nation View

Holloman AFB; SD-08 Subsurface Soil Event

10-0004.01.010

Accutest Job Number: FA3075

Sampling Date: 03/26/13

Report to:

NationView
445 Union Blvd, Ste 129
Lakewood, CO 80228
molive@bhate.com; jmoore@bhate.com;
zbeck@bhate.com
ATTN: Marcia Olive

Total number of pages in report: **41**

ACCREDITED IN ACCORDANCE WITH nelac

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: Jean Dent-Smith 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

Nation View

Job No: FA3075

Holloman AFB; SD-08 Subsurface Soil Event
Project No: 10-0004.01.010

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA3075-1	03/26/13	10:15	ZBTL	03/27/13	SO	Soil	SD08-MW10-SB-05'
FA3075-2	03/26/13	10:15	ZBTL	03/27/13	SO	Soil	SD08-MW10-SB-09'
FA3075-3	03/26/13	00:00	ZBTL	03/27/13	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA3075
Account: Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event
Collected: 03/26/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA3075-1	**SD08-MW10-SB-05'**					
Aluminum		5560	9.3	0.93	mg/kg	SW846 6010C
Arsenic		1.9	0.47	0.074	mg/kg	SW846 6010C
Barium		47.4	9.3	0.23	mg/kg	SW846 6010C
Beryllium		0.22 J	0.23	0.023	mg/kg	SW846 6010C
Calcium		94800	1200	12	mg/kg	SW846 6010C
Chromium [a]		6.0	2.3	0.42	mg/kg	SW846 6010C
Cobalt		1.6 J	2.3	0.023	mg/kg	SW846 6010C
Copper		3.7	1.2	0.084	mg/kg	SW846 6010C
Iron		4170	14	3.3	mg/kg	SW846 6010C
Lead [a]		4.4 J	4.7	0.26	mg/kg	SW846 6010C
Magnesium		3030	230	3.5	mg/kg	SW846 6010C
Manganese		68.0	0.70	0.042	mg/kg	SW846 6010C
Nickel		3.7	1.9	0.023	mg/kg	SW846 6010C
Potassium		2160	470	9.3	mg/kg	SW846 6010C
Sodium		201 J	470	23	mg/kg	SW846 6010C
Vanadium		9.2	2.3	0.023	mg/kg	SW846 6010C
Zinc [a]		17.8	4.7	0.70	mg/kg	SW846 6010C
FA3075-2	**SD08-MW10-SB-09'**					
Aluminum		3980	8.8	0.88	mg/kg	SW846 6010C
Arsenic		1.4	0.44	0.070	mg/kg	SW846 6010C
Barium		45.1	8.8	0.22	mg/kg	SW846 6010C
Beryllium		0.14 J	0.22	0.022	mg/kg	SW846 6010C
Calcium		123000	2200	22	mg/kg	SW846 6010C
Chromium [a]		4.3 J	4.4	0.79	mg/kg	SW846 6010C
Cobalt		1.2 J	2.2	0.022	mg/kg	SW846 6010C
Copper		2.4	1.1	0.079	mg/kg	SW846 6010C
Iron		3060	13	3.1	mg/kg	SW846 6010C
Lead [a]		3.5 J	8.8	0.48	mg/kg	SW846 6010C
Magnesium		1940	220	3.3	mg/kg	SW846 6010C
Manganese		44.3	0.66	0.040	mg/kg	SW846 6010C
Nickel		2.7	1.8	0.022	mg/kg	SW846 6010C
Potassium		1080	440	8.8	mg/kg	SW846 6010C
Sodium		115 J	440	22	mg/kg	SW846 6010C
Vanadium		8.6	2.2	0.022	mg/kg	SW846 6010C
Zinc [a]		10.6	8.8	1.3	mg/kg	SW846 6010C
FA3075-3	**TRIP BLANK**					

No hits reported in this sample.

(a) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD08-MW10-SB-05'		
Lab Sample ID:	FA3075-1	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/27/13
Method:	SW846 8260B	**Percent Solids:**	89.6
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y8160.D	1	03/27/13	EP	n/a	n/a	VY358
Run #2							

	Initial Weight
Run #1	7.40 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	38	15	ug/kg	
107-02-8	Acrolein	ND	19	6.5	ug/kg	
107-13-1	Acrylonitrile	ND	19	7.5	ug/kg	
71-43-2	Benzene	ND	3.8	0.75	ug/kg	
108-86-1	Bromobenzene	ND	3.8	0.81	ug/kg	
74-97-5	Bromochloromethane	ND	3.8	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	3.8	1.1	ug/kg	
75-25-2	Bromoform	ND	3.8	0.75	ug/kg	
104-51-8	n-Butylbenzene	ND	3.8	0.97	ug/kg	
135-98-8	sec-Butylbenzene	ND	3.8	0.91	ug/kg	
98-06-6	tert-Butylbenzene	ND	3.8	0.90	ug/kg	
108-90-7	Chlorobenzene	ND	3.8	0.75	ug/kg	
75-00-3	Chloroethane	ND	3.8	1.5	ug/kg	
67-66-3	Chloroform	ND	3.8	0.75	ug/kg	
95-49-8	o-Chlorotoluene	ND	3.8	0.75	ug/kg	
106-43-4	p-Chlorotoluene	ND	3.8	0.87	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	19	7.5	ug/kg	
75-15-0	Carbon disulfide	ND	3.8	1.5	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.8	0.86	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.8	0.75	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.8	0.92	ug/kg	
563-58-6	1,1-Dichloropropene	ND	3.8	0.75	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.8	1.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.8	0.75	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.8	0.90	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.8	0.75	ug/kg	
142-28-9	1,3-Dichloropropane	ND	3.8	0.75	ug/kg	
594-20-7	2,2-Dichloropropane	ND	3.8	0.75	ug/kg	
124-48-1	Dibromochloromethane	ND	3.8	0.75	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.8	0.75	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3.8	0.75	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.8	0.75	ug/kg	

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:	SD08-MW10-SB-05'		
Lab Sample ID:	FA3075-1	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/27/13
Method:	SW846 8260B	**Percent Solids:**	89.6
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	3.8	0.75	ug/kg	
95-50-1	o-Dichlorobenzene	ND	3.8	0.82	ug/kg	
106-46-7	p-Dichlorobenzene	ND	3.8	0.99	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.8	0.75	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.8	0.75	ug/kg	
100-41-4	Ethylbenzene	ND	3.8	0.83	ug/kg	
591-78-6	2-Hexanone	ND	19	3.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3.8	1.5	ug/kg	
98-82-8	Isopropylbenzene	ND	3.8	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	3.8	0.99	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	3.8	ug/kg	
74-83-9	Methyl bromide	ND	3.8	1.5	ug/kg	
74-87-3	Methyl chloride	ND	3.8	1.6	ug/kg	
74-95-3	Methylene bromide	ND	3.8	0.78	ug/kg	
75-09-2	Methylene chloride	ND	7.5	3.4	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	3.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.8	0.75	ug/kg	
91-20-3	Naphthalene	ND	3.8	1.5	ug/kg	
103-65-1	n-Propylbenzene	ND	3.8	0.78	ug/kg	
100-42-5	Styrene	ND	3.8	0.75	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.8	0.81	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.8	0.75	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.8	0.75	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.8	0.75	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	3.8	0.79	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.8	1.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.8	0.89	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.8	0.81	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.8	0.79	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.8	0.87	ug/kg	
108-88-3	Toluene	ND	3.8	0.75	ug/kg	
79-01-6	Trichloroethylene	ND	3.8	0.75	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.8	1.5	ug/kg	
75-01-4	Vinyl chloride	ND	3.8	0.75	ug/kg	
108-05-4	Vinyl Acetate	ND	19	3.1	ug/kg	
	m,p-Xylene	ND	7.5	1.6	ug/kg	
95-47-6	o-Xylene	ND	3.8	0.75	ug/kg	

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:	SD08-MW10-SB-05'		
Lab Sample ID:	FA3075-1	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/27/13
Method:	SW846 8260B	**Percent Solids:**	89.6
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		80-121%
2037-26-5	Toluene-D8	101%		71-130%
460-00-4	4-Bromofluorobenzene	103%		59-148%
17060-07-0	1,2-Dichloroethane-D4	113%		77-123%

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:	SD08-MW10-SB-05'		
Lab Sample ID:	FA3075-1	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/27/13
		Percent Solids:	89.6
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5560	9.3	0.93	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony [a]	0.44 U	4.7	0.44	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Arsenic	1.9	0.47	0.074	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	47.4	9.3	0.23	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	0.22 J	0.23	0.023	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium [a]	0.12 U	0.93	0.12	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Calcium	94800	1200	12	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium [a]	6.0	2.3	0.42	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Cobalt	1.6 J	2.3	0.023	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	3.7	1.2	0.084	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	4170	14	3.3	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Lead [a]	4.4 J	4.7	0.26	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Magnesium	3030	230	3.5	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	68.0	0.70	0.042	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.0044 U	0.044	0.0044	mg/kg	1	04/01/13	04/01/13	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	3.7	1.9	0.023	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	2160	470	9.3	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium [a]	0.70 U	4.7	0.70	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Silver	0.023 U	0.47	0.023	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	201 J	470	23	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Thallium [a]	0.42 U	2.3	0.42	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Vanadium	9.2	2.3	0.023	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc [a]	17.8	4.7	0.70	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]

(1) Instrument QC Batch: MA10640
(2) Instrument QC Batch: MA10656
(3) Instrument QC Batch: MA10658
(4) Prep QC Batch: MP24883
(5) Prep QC Batch: MP24916

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SD08-MW10-SB-09'		
Lab Sample ID:	FA3075-2	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/27/13
Method:	SW846 8260B	**Percent Solids:**	81.8
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y8161.D	1	03/27/13	EP	n/a	n/a	VY358
Run #2							

	Initial Weight
Run #1	8.00 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	38	15	ug/kg	
107-02-8	Acrolein	ND	19	6.6	ug/kg	
107-13-1	Acrylonitrile	ND	19	7.6	ug/kg	
71-43-2	Benzene	ND	3.8	0.76	ug/kg	
108-86-1	Bromobenzene	ND	3.8	0.83	ug/kg	
74-97-5	Bromochloromethane	ND	3.8	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	3.8	1.1	ug/kg	
75-25-2	Bromoform	ND	3.8	0.76	ug/kg	
104-51-8	n-Butylbenzene	ND	3.8	0.99	ug/kg	
135-98-8	sec-Butylbenzene	ND	3.8	0.92	ug/kg	
98-06-6	tert-Butylbenzene	ND	3.8	0.91	ug/kg	
108-90-7	Chlorobenzene	ND	3.8	0.76	ug/kg	
75-00-3	Chloroethane	ND	3.8	1.5	ug/kg	
67-66-3	Chloroform	ND	3.8	0.76	ug/kg	
95-49-8	o-Chlorotoluene	ND	3.8	0.76	ug/kg	
106-43-4	p-Chlorotoluene	ND	3.8	0.88	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	19	7.6	ug/kg	
75-15-0	Carbon disulfide	ND	3.8	1.5	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.8	0.87	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.8	0.76	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.8	0.93	ug/kg	
563-58-6	1,1-Dichloropropene	ND	3.8	0.76	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.8	1.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.8	0.76	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.8	0.92	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.8	0.76	ug/kg	
142-28-9	1,3-Dichloropropane	ND	3.8	0.76	ug/kg	
594-20-7	2,2-Dichloropropane	ND	3.8	0.76	ug/kg	
124-48-1	Dibromochloromethane	ND	3.8	0.76	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.8	0.76	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3.8	0.76	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.8	0.76	ug/kg	

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:	SD08-MW10-SB-09'		
Lab Sample ID:	FA3075-2	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/27/13
Method:	SW846 8260B	**Percent Solids:**	81.8
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	3.8	0.76	ug/kg	
95-50-1	o-Dichlorobenzene	ND	3.8	0.83	ug/kg	
106-46-7	p-Dichlorobenzene	ND	3.8	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.8	0.76	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.8	0.76	ug/kg	
100-41-4	Ethylbenzene	ND	3.8	0.84	ug/kg	
591-78-6	2-Hexanone	ND	19	3.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3.8	1.5	ug/kg	
98-82-8	Isopropylbenzene	ND	3.8	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	3.8	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	19	3.8	ug/kg	
74-83-9	Methyl bromide	ND	3.8	1.5	ug/kg	
74-87-3	Methyl chloride	ND	3.8	1.6	ug/kg	
74-95-3	Methylene bromide	ND	3.8	0.79	ug/kg	
75-09-2	Methylene chloride	ND	7.6	3.5	ug/kg	
78-93-3	Methyl ethyl ketone	ND	19	3.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.8	0.76	ug/kg	
91-20-3	Naphthalene	ND	3.8	1.5	ug/kg	
103-65-1	n-Propylbenzene	ND	3.8	0.79	ug/kg	
100-42-5	Styrene	ND	3.8	0.76	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.8	0.82	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.8	0.76	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.8	0.76	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.8	0.76	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	3.8	0.80	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.8	1.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.8	0.90	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.8	0.83	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.8	0.80	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.8	0.88	ug/kg	
108-88-3	Toluene	ND	3.8	0.76	ug/kg	
79-01-6	Trichloroethylene	ND	3.8	0.76	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.8	1.5	ug/kg	
75-01-4	Vinyl chloride	ND	3.8	0.76	ug/kg	
108-05-4	Vinyl Acetate	ND	19	3.2	ug/kg	
	m,p-Xylene	ND	7.6	1.6	ug/kg	
95-47-6	o-Xylene	ND	3.8	0.76	ug/kg	

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:	SD08-MW10-SB-09'		
Lab Sample ID:	FA3075-2	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/27/13
Method:	SW846 8260B	**Percent Solids:**	81.8
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-121%
2037-26-5	Toluene-D8	104%		71-130%
460-00-4	4-Bromofluorobenzene	102%		59-148%
17060-07-0	1,2-Dichloroethane-D4	103%		77-123%

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:	SD08-MW10-SB-09'		
Lab Sample ID:	FA3075-2	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/27/13
		Percent Solids:	81.8
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	3980	8.8	0.88	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony [a]	0.84 U	8.8	0.84	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Arsenic	1.4	0.44	0.070	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	45.1	8.8	0.22	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	0.14 J	0.22	0.022	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium [a]	0.22 U	1.8	0.22	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Calcium	123000	2200	22	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium [a]	4.3 J	4.4	0.79	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Cobalt	1.2 J	2.2	0.022	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	2.4	1.1	0.079	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	3060	13	3.1	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Lead [a]	3.5 J	8.8	0.48	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Magnesium	1940	220	3.3	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	44.3	0.66	0.040	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.0046 U	0.046	0.0046	mg/kg	1	04/01/13	04/01/13	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	2.7	1.8	0.022	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	1080	440	8.8	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium [a]	1.3 U	8.8	1.3	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Silver	0.022 U	0.44	0.022	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	115 J	440	22	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Thallium [a]	0.79 U	4.4	0.79	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]
Vanadium	8.6	2.2	0.022	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc [a]	10.6	8.8	1.3	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3010A [5]

(1) Instrument QC Batch: MA10640
(2) Instrument QC Batch: MA10656
(3) Instrument QC Batch: MA10658
(4) Prep QC Batch: MP24883
(5) Prep QC Batch: MP24916

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA3075-3	**Date Sampled:**	03/26/13
Matrix:	SO - Trip Blank Soil	**Date Received:**	03/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y8162.D	1	03/27/13	EP	n/a	n/a	VY358
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
107-02-8	Acrolein	ND	25	8.7	ug/kg	
107-13-1	Acrylonitrile	ND	25	10	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.4	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.2	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.2	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	FA3075-3	**Date Sampled:**	03/26/13
Matrix:	SO - Trip Blank Soil	**Date Received:**	03/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.1	ug/kg	
591-78-6	2-Hexanone	ND	25	5.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.1	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.0	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.2	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	4.1	ug/kg	
	m,p-Xylene	ND	10	2.1	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	FA3075-3	**Date Sampled:**	03/26/13
Matrix:	SO - Trip Blank Soil	**Date Received:**	03/27/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		80-121%
2037-26-5	Toluene-D8	105%		71-130%
460-00-4	4-Bromofluorobenzene	105%		59-148%
17060-07-0	1,2-Dichloroethane-D4	105%		77-123%

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

NATIONVIEW

FA3075

Page: 1 of 1

Project No: 10-0004.10.010

COC Number(1): 03262013-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB

Project/Site Name: SD-08 Subsurface Soil Event

Client Name: USACE- Omaha District

Collected by: Zachary Beck / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC's 8260	TAL Metals 6010B/7041A	% Solids						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SDO8-MW10-SB-05'	SDO8-MW10	26032013	1015	4 - 5	N	1	SO	4	[1]	[1]	[1]									1
2	SDO8-MW10-SB-09'	SDO8-MW10	26032013	1015	8 - 9	N	1	SO	4	[1]	[1]	[1]									1
3	Trip Blank	Field QC	26032013		-	TB	1	AQ	1	[1]											1
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero	3262013	1600	1. FR		
2. FR	03-27-13	1000	2. [illegible]	3-27-13	1000
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 799371291430

Analytical Lab: Accutest Delivery Location: Orlando FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

3.0

4.1

4

FA3075: Chain of Custody

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA3075 CLIENT: Natrona View PROJECT: SD-08 Subsurface Soil Event

DATE/TIME RECEIVED: 03-27-13 10:00 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7993 7129 1430

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
- [ ] RECEIVED WATER TRIP BLANK
- [x] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 2 +1B1

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 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:

TECHNICIAN SIGNATURE/DATE R Willm 03-27-13 REVIEWER SIGNATURE/DATE [signature] 03/27/13

NF 12/10

receipt confirmation 122910.xls

4.1

4

FA3075: Chain of Custody

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Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA3075
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY358-MB	Y8142.D	1	03/27/13	EP	n/a	n/a	VY358

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3075-1, FA3075-2, FA3075-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
107-02-8	Acrolein	ND	25	8.7	ug/kg	
107-13-1	Acrylonitrile	ND	25	10	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.4	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.2	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.2	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: FA3075
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY358-MB	Y8142.D	1	03/27/13	EP	n/a	n/a	VY358

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3075-1, FA3075-2, FA3075-3

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.1	ug/kg	
591-78-6	2-Hexanone	ND	25	5.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.1	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.0	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.2	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	4.1	ug/kg	
	m,p-Xylene	ND	10	2.1	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: FA3075
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY358-MB	Y8142.D	1	03/27/13	EP	n/a	n/a	VY358

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3075-1, FA3075-2, FA3075-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	80-121%
2037-26-5	Toluene-D8	104%	71-130%
460-00-4	4-Bromofluorobenzene	107%	59-148%
17060-07-0	1,2-Dichloroethane-D4	101%	77-123%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile [a]		0	ug/kg	

(a) No TICs detected.

Blank Spike Summary

Job Number: FA3075
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY358-BS	Y8143.D	1	03/27/13	EP	n/a	n/a	VY358

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3075-1, FA3075-2, FA3075-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	289	116	61-144
107-02-8	Acrolein	250	269	108	27-156
107-13-1	Acrylonitrile	250	258	103	55-144
71-43-2	Benzene	50	53.2	106	78-130
108-86-1	Bromobenzene	50	49.9	100	78-123
74-97-5	Bromochloromethane	50	46.5	93	72-122
75-27-4	Bromodichloromethane	50	53.6	107	73-122
75-25-2	Bromoform	50	50.8	102	70-139
104-51-8	n-Butylbenzene	50	51.5	103	80-138
135-98-8	sec-Butylbenzene	50	55.7	111	82-132
98-06-6	tert-Butylbenzene	50	55.1	110	79-130
108-90-7	Chlorobenzene	50	54.9	110	83-122
75-00-3	Chloroethane	50	43.7	87	61-153
67-66-3	Chloroform	50	51.5	103	79-129
95-49-8	o-Chlorotoluene	50	53.0	106	77-123
106-43-4	p-Chlorotoluene	50	55.7	111	78-129
110-75-8	2-Chloroethyl vinyl ether	250	251	100	52-142
75-15-0	Carbon disulfide	50	47.4	95	61-142
56-23-5	Carbon tetrachloride	50	55.2	110	79-135
75-34-3	1,1-Dichloroethane	50	53.8	108	77-132
75-35-4	1,1-Dichloroethylene	50	55.4	111	66-132
563-58-6	1,1-Dichloropropene	50	55.8	112	81-133
96-12-8	1,2-Dibromo-3-chloropropane	50	48.7	97	67-129
106-93-4	1,2-Dibromoethane	50	52.1	104	77-126
107-06-2	1,2-Dichloroethane	50	52.1	104	78-129
78-87-5	1,2-Dichloropropane	50	52.0	104	74-127
142-28-9	1,3-Dichloropropane	50	50.0	100	78-118
594-20-7	2,2-Dichloropropane	50	57.8	116	80-137
124-48-1	Dibromochloromethane	50	52.1	104	78-117
75-71-8	Dichlorodifluoromethane	50	57.1	114	35-162
156-59-2	cis-1,2-Dichloroethylene	50	51.3	103	74-123
10061-01-5	cis-1,3-Dichloropropene	50	49.8	100	79-130
541-73-1	m-Dichlorobenzene	50	53.5	107	82-126
95-50-1	o-Dichlorobenzene	50	53.1	106	83-123
106-46-7	p-Dichlorobenzene	50	50.0	100	84-124
156-60-5	trans-1,2-Dichloroethylene	50	50.3	101	77-129

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA3075
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY358-BS	Y8143.D	1	03/27/13	EP	n/a	n/a	VY358

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3075-1, FA3075-2, FA3075-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	53.3	107	87-131
100-41-4	Ethylbenzene	50	53.0	106	82-124
591-78-6	2-Hexanone	250	261	104	67-130
87-68-3	Hexachlorobutadiene	50	45.8	92	77-150
98-82-8	Isopropylbenzene	50	57.0	114	82-133
99-87-6	p-Isopropyltoluene	50	53.0	106	82-132
108-10-1	4-Methyl-2-pentanone	250	261	104	69-125
74-83-9	Methyl bromide	50	46.7	93	60-146
74-87-3	Methyl chloride	50	48.5	97	58-163
74-95-3	Methylene bromide	50	50.1	100	75-128
75-09-2	Methylene chloride	50	50.1	100	62-140
78-93-3	Methyl ethyl ketone	250	283	113	66-134
1634-04-4	Methyl Tert Butyl Ether	50	49.3	99	70-131
91-20-3	Naphthalene	50	46.7	93	59-143
103-65-1	n-Propylbenzene	50	55.6	111	78-129
100-42-5	Styrene	50	52.5	105	79-123
630-20-6	1,1,1,2-Tetrachloroethane	50	52.2	104	81-121
71-55-6	1,1,1-Trichloroethane	50	54.1	108	80-133
79-34-5	1,1,2,2-Tetrachloroethane	50	49.5	99	70-128
79-00-5	1,1,2-Trichloroethane	50	51.7	103	76-118
87-61-6	1,2,3-Trichlorobenzene	50	43.6	87	78-136
96-18-4	1,2,3-Trichloropropane	50	51.0	102	74-125
120-82-1	1,2,4-Trichlorobenzene	50	48.5	97	82-137
95-63-6	1,2,4-Trimethylbenzene	50	50.3	101	77-129
108-67-8	1,3,5-Trimethylbenzene	50	50.3	101	79-129
127-18-4	Tetrachloroethylene	50	50.4	101	79-132
108-88-3	Toluene	50	52.1	104	80-123
79-01-6	Trichloroethylene	50	54.4	109	78-132
75-69-4	Trichlorofluoromethane	50	56.4	113	67-149
75-01-4	Vinyl chloride	50	52.1	104	60-145
108-05-4	Vinyl Acetate	250	280	112	25-164
	m,p-Xylene	100	109	109	82-128
95-47-6	o-Xylene	50	55.4	111	82-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA3075
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY358-BS	Y8143.D	1	03/27/13	EP	n/a	n/a	VY358

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3075-1, FA3075-2, FA3075-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	80-121%
2037-26-5	Toluene-D8	101%	71-130%
460-00-4	4-Bromofluorobenzene	99%	59-148%
17060-07-0	1,2-Dichloroethane-D4	98%	77-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3075
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA3047-1MS	Y8157.D	1	03/27/13	EP	n/a	n/a	VY358
FA3047-1MSD	Y8158.D	1	03/27/13	EP	n/a	n/a	VY358
FA3047-1	Y8151.D	1	03/27/13	EP	n/a	n/a	VY358

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3075-1, FA3075-2, FA3075-3

CAS No.	Compound	FA3047-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	46 U		313	338	108	324	103	4	61-144/29
107-02-8	Acrolein	23 U		313	95.4	30	95.0	30	0	27-156/39
107-13-1	Acrylonitrile	23 U		313	306	98	293	93	4	55-144/24
71-43-2	Benzene	4.6 U		62.7	60.9	97	60.7	96	0	78-130/25
108-86-1	Bromobenzene	4.6 U		62.7	57.8	92	61.0	97	5	78-123/30
74-97-5	Bromochloromethane	4.6 U		62.7	57.5	92	56.0	89	3	72-122/23
75-27-4	Bromodichloromethane	4.6 U		62.7	60.5	96	60.0	95	1	73-122/25
75-25-2	Bromoform	4.6 U		62.7	54.9	88	52.9	84	4	70-139/26
104-51-8	n-Butylbenzene	4.6 U		62.7	28.3	45*	26.3	42*	7	80-138/31
135-98-8	sec-Butylbenzene	4.6 U		62.7	35.0	56*	32.5	52*	7	82-132/29
98-06-6	tert-Butylbenzene	4.6 U		62.7	42.0	67*	43.0	68*	2	79-130/29
108-90-7	Chlorobenzene	4.6 U		62.7	54.5	87	55.9	89	3	83-122/23
75-00-3	Chloroethane	4.6 U		62.7	55.3	88	55.4	88	0	61-153/31
67-66-3	Chloroform	4.6 U		62.7	59.3	95	60.4	96	2	79-129/27
95-49-8	o-Chlorotoluene	4.6 U		62.7	53.4	85	54.7	87	2	77-123/31
106-43-4	p-Chlorotoluene	4.6 U		62.7	55.8	89	59.0	94	6	78-129/29
110-75-8	2-Chloroethyl vinyl ether	23 U		313	302	96	298	95	1	52-142/25
75-15-0	Carbon disulfide	4.6 U		62.7	53.9	86	56.1	89	4	61-142/27
56-23-5	Carbon tetrachloride	4.6 U		62.7	55.9	89	55.1	87	1	79-135/29
75-34-3	1,1-Dichloroethane	4.6 U		62.7	60.9	97	62.9	100	3	77-132/26
75-35-4	1,1-Dichloroethylene	4.6 U		62.7	63.1	101	64.0	102	1	66-132/27
563-58-6	1,1-Dichloropropene	4.6 U		62.7	57.1	91	56.1	89	2	81-133/26
96-12-8	1,2-Dibromo-3-chloropropane	4.6 U		62.7	66.8	107	68.2	108	2	67-129/29
106-93-4	1,2-Dibromoethane	4.6 U		62.7	60.0	96	58.9	93	2	77-126/24
107-06-2	1,2-Dichloroethane	4.6 U		62.7	62.1	99	60.3	96	3	78-129/24
78-87-5	1,2-Dichloropropane	4.6 U		62.7	60.3	96	59.3	94	2	74-127/27
142-28-9	1,3-Dichloropropane	4.6 U		62.7	60.8	97	61.1	97	0	78-118/26
594-20-7	2,2-Dichloropropane	4.6 U		62.7	62.5	100	65.1	103	4	80-137/28
124-48-1	Dibromochloromethane	4.6 U		62.7	60.9	97	61.3	97	1	78-117/27
75-71-8	Dichlorodifluoromethane	4.6 U		62.7	59.7	95	56.7	90	5	35-162/30
156-59-2	cis-1,2-Dichloroethylene	4.6 U		62.7	60.2	96	61.6	98	2	74-123/26
10061-01-5	cis-1,3-Dichloropropene	4.6 U		62.7	56.2	90	55.3	88	2	79-130/23
541-73-1	m-Dichlorobenzene	4.6 U		62.7	48.1	77*	48.9	78*	2	82-126/29
95-50-1	o-Dichlorobenzene	4.6 U		62.7	47.0	75*	48.9	78*	4	83-123/28
106-46-7	p-Dichlorobenzene	4.6 U		62.7	45.7	73*	47.2	75*	3	84-124/28
156-60-5	trans-1,2-Dichloroethylene	4.6 U		62.7	58.2	93	61.0	97	5	77-129/27

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3075
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA3047-1MS	Y8157.D	1	03/27/13	EP	n/a	n/a	VY358
FA3047-1MSD	Y8158.D	1	03/27/13	EP	n/a	n/a	VY358
FA3047-1	Y8151.D	1	03/27/13	EP	n/a	n/a	VY358

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3075-1, FA3075-2, FA3075-3

CAS No.	Compound	FA3047-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	4.6 U		62.7	60.1	96	61.5	98	2	87-131/27
100-41-4	Ethylbenzene	4.6 U		62.7	48.6	78*	48.6	77*	0	82-124/25
591-78-6	2-Hexanone	23 U		313	322	103	310	98	4	67-130/29
87-68-3	Hexachlorobutadiene	4.6 U		62.7	10.2	16*	9.8	16*	4	77-150/36
98-82-8	Isopropylbenzene	4.6 U		62.7	41.9	67*	38.6	61*	8	82-133/27
99-87-6	p-Isopropyltoluene	4.6 U		62.7	33.3	53*	33.8	54*	1	82-132/29
108-10-1	4-Methyl-2-pentanone	23 U		313	331	106	325	103	2	69-125/24
74-83-9	Methyl bromide	4.6 U		62.7	55.7	89	57.2	91	3	60-146/31
74-87-3	Methyl chloride	4.6 U		62.7	55.9	89	59.2	94	6	58-163/26
74-95-3	Methylene bromide	4.6 U		62.7	57.9	92	59.5	94	3	75-128/26
75-09-2	Methylene chloride	9.3 U		62.7	64.3	103	61.2	97	5	62-140/25
78-93-3	Methyl ethyl ketone	23 U		313	339	108	322	102	5	66-134/23
1634-04-4	Methyl Tert Butyl Ether	4.6 U		62.7	61.9	99	61.3	97	1	70-131/25
91-20-3	Naphthalene	4.6 U		62.7	33.5	53*	30.8	49*	8	59-143/31
103-65-1	n-Propylbenzene	4.6 U		62.7	48.1	77*	46.1	73*	4	78-129/29
100-42-5	Styrene	4.6 U		62.7	48.5	77*	48.4	77*	0	79-123/28
630-20-6	1,1,1,2-Tetrachloroethane	4.6 U		62.7	54.5	87	54.8	87	1	81-121/25
71-55-6	1,1,1-Trichloroethane	4.6 U		62.7	58.3	93	61.1	97	5	80-133/27
79-34-5	1,1,2,2-Tetrachloroethane	4.6 U		62.7	72.7	116	76.8	122	5	70-128/30
79-00-5	1,1,2-Trichloroethane	4.6 U		62.7	61.5	98	59.5	94	3	76-118/28
87-61-6	1,2,3-Trichlorobenzene	4.6 U		62.7	19.1	30*	21.1	33*	10	78-136/34
96-18-4	1,2,3-Trichloropropane	4.6 U		62.7	75.1	120	77.5	123	3	74-125/30
120-82-1	1,2,4-Trichlorobenzene	4.6 U		62.7	22.5	36*	22.7	36*	1	82-137/32
95-63-6	1,2,4-Trimethylbenzene	4.6 U		62.7	43.7	70*	43.3	69*	1	77-129/29
108-67-8	1,3,5-Trimethylbenzene	4.6 U		62.7	42.6	68*	44.6	71*	5	79-129/31
127-18-4	Tetrachloroethylene	4.6 U		62.7	50.9	81	49.4	78*	3	79-132/27
108-88-3	Toluene	4.6 U		62.7	56.9	91	57.2	91	1	80-123/26
79-01-6	Trichloroethylene	4.6 U		62.7	57.4	92	57.5	91	0	78-132/28
75-69-4	Trichlorofluoromethane	4.6 U		62.7	60.7	97	61.3	97	1	67-149/29
75-01-4	Vinyl chloride	4.6 U		62.7	62.5	100	64.5	102	3	60-145/29
108-05-4	Vinyl Acetate	23 U		313	61.5	20*	36.7	12*	51*	25-164/35
	m,p-Xylene	9.3 U		125	96.0	77*	96.6	77*	1	82-128/25
95-47-6	o-Xylene	4.6 U		62.7	49.6	79*	49.8	79*	0	82-126/25

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3075
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA3047-1MS	Y8157.D	1	03/27/13	EP	n/a	n/a	VY358
FA3047-1MSD	Y8158.D	1	03/27/13	EP	n/a	n/a	VY358
FA3047-1	Y8151.D	1	03/27/13	EP	n/a	n/a	VY358

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3075-1, FA3075-2, FA3075-3

CAS No.	Surrogate Recoveries	MS	MSD	FA3047-1	Limits
1868-53-7	Dibromofluoromethane	103%	101%	106%	80-121%
2037-26-5	Toluene-D8	109%	107%	108%	71-130%
460-00-4	4-Bromofluorobenzene	124%	127%	124%	59-148%
17060-07-0	1,2-Dichloroethane-D4	98%	97%	106%	77-123%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA3075
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24883
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 04/01/13

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.042	.0025	.0042	-0.0023	<0.042

Associated samples MP24883: FA3075-1, FA3075-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3075
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24883 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 04/01/13 04/01/13

Metal	FA3253-10 Original	DUP	RPD	QC Limits	FA3253-10 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.028	0.028	0.0	0-20	0.028	0.32	0.267	109.5	80-120

Associated samples MP24883: FA3075-1, FA3075-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3075
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24883 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 04/01/13

Metal	FA3253-10 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.028	0.34	0.271	115.1	6.1	20

Associated samples MP24883: FA3075-1, FA3075-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA3075
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24883
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 04/01/13

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	80-120

Associated samples MP24883: FA3075-1, FA3075-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA3075
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24883 Methods: SW846 7471B
Matrix Type: SOLID Units: ug/l

Prep Date: 04/01/13

Metal	FA3253-10 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.328	0.00	100.0(a)	0-10

Associated samples MP24883: FA3075-1, FA3075-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA3075
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24916
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/05/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.75	1	0.19	<10
Antimony	1.0	.065	.095	0.075	<1.0
Arsenic	0.50	.08	.08	-0.19	<0.50
Barium	10	.05	.25	-0.055	<10
Beryllium	0.25	.025	.025	-0.050	<0.25
Cadmium	0.20	.025	.025	-0.010	<0.20
Calcium	250	2.5	2.5	1.4	<250
Chromium	0.50	.09	.09	-0.0050	<0.50
Cobalt	2.5	.025	.025	-0.040	<2.5
Copper	1.3	.05	.09	0.035	<1.3
Iron	15	1.5	3.5	0.28	<15
Lead	1.0	.055	.055	0.18	<1.0
Magnesium	250	3.7	3.8	-1.2	<250
Manganese	0.75	.035	.045	-0.020	<0.75
Molybdenum	2.5	.03	.03		
Nickel	2.0	.025	.025	-0.060	<2.0
Potassium	500	10	10	0.55	<500
Selenium	1.0	.1	.15	-0.18	<1.0
Silver	0.50	.025	.025	-0.0050	<0.50
Sodium	500	25	25	-0.17	<500
Strontium	0.50	.025	.025		
Thallium	0.50	.065	.09	-0.20	<0.50
Tin	2.5	.035	.035		
Titanium	0.50	.045	.045		
Vanadium	2.5	.025	.025	-0.065	<2.5
Zinc	1.0	.15	.15	0.10	<1.0

Associated samples MP24916: FA3075-1, FA3075-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3075
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24916
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			04/05/13					04/05/13	
Metal	FA3358-1 Original	DUP	RPD	QC Limits	FA3358-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	47000	25500(a)	59.3*(b)	0-20	47000	30000(a)	1790	-947.1(d	80-120
Antimony	1.1	0.32 (a)	109.9(c)	0-20	1.1	5.5 (a)	33.2	13.2N(e)	80-120
Arsenic	0.0	0.0 (a)	NC	0-20	0.0	75.9 (a)	133	57.1N(e)	80-120
Barium	311	412 (a)	27.9*(b)	0-20	311	558 (a)	133	185.8N(e	80-120
Beryllium	0.49	0.58 (a)	16.8	0-20	0.49	3.6 (a)	3.32	93.6	80-120
Cadmium	1.9	1.0 (a)	62.1 (c)	0-20	1.9	4.2 (a)	3.32	69.2N(e)	80-120
Calcium	3920	3180 (a)	20.8 (c)	0-20	3920	5340 (a)	1660	85.4	80-120
Chromium	126	62.9 (a)	66.8*(b)	0-20	126	96.1 (a)	13.3	-224.9(d	80-120
Cobalt	41.2	121 (a)	98.4*(b)	0-20	41.2	136 (a)	33.2	285.2N(e	80-120
Copper	152	114 (a)	28.6*(b)	0-20	152	119 (a)	16.6	-198.6(d	80-120
Iron	79100	42200(a)	60.8*(b)	0-20	79100	48700(a)	1730	-1758.8d	80-120
Lead	3.2	6.1	62.4*(b)	0-20	3.2	34.9	33.2	95.4	80-120
Magnesium	17300	12700(a)	30.7*(b)	0-20	17300	17500(a)	1660	12.0 (d)	80-120
Manganese	1300	5280	121.0*(b	0-20	1300	4360	33.2	9205.7(d	80-120
Molybdenum									
Nickel	47.3	53.8 (a)	12.9	0-20	47.3	91.6 (a)	33.2	133.3N(e	80-120
Potassium	2880	2560 (a)	11.8	0-20	2880	5630 (a)	1660	165.5N(e	80-120
Selenium	0.0	0.0 (a)	NC	0-20	0.0	67.6 (a)	133	50.8N(e)	80-120
Silver	1.2	0.86 (a)	33.0 (c)	0-20	1.2	4.0 (a)	3.32	84.2	80-120
Sodium	0.00	0.00 (a)	NC	0-20	0.00	1680 (a)	1660	101.1	80-120
Strontium									
Thallium	0.0	0.0 (a)	NC	0-20	0.0	130 (a)	133	97.8	80-120
Tin	anr								
Titanium									
Vanadium	242	113 (a)	72.7*(b)	0-20	242	172 (a)	33.2	-210.6(d	80-120
Zinc	114	89.6 (a)	24.0*(b)	0-20	114	138 (a)	33.2	72.2N(e)	80-120

Associated samples MP24916: FA3075-1, FA3075-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) High RPD due to possible sample non-homogeneity.
(c) RPD acceptable due to low duplicate and sample concentrations.
(d) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(e) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3075
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24916 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date: 04/05/13

Metal	FA3358-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	47000	26300(a)	1450	-1428.3b	13.1	20
Antimony	1.1	3.5 (a)	26.8	8.9N (c)	44.4 (d)	20
Arsenic	0.0	48.5 (a)	107	45.2N(c)	44.1 (d)	20
Barium	311	381 (a)	107	65.2N(c)	37.7 (d)	20
Beryllium	0.49	2.8 (a)	2.68	86.1	25.0 (d)	20
Cadmium	1.9	3.3 (a)	2.68	52.2N(c)	24.0 (d)	20
Calcium	3920	4560 (a)	1340	47.7N(c)	15.8	20
Chromium	126	83.4 (a)	10.7	-396.8(b	14.2	20
Cobalt	41.2	59.4 (a)	26.8	67.8N(c)	78.4 (d)	20
Copper	152	96.1 (a)	13.4	-416.6(b	21.3 (d)	20
Iron	79100	43900(a)	1400	-2522.2b	10.4	20
Lead	3.2	26.6	26.8	87.2	27.0 (d)	20
Magnesium	17300	14400(a)	1340	-216.1(b	19.4	20
Manganese	1300	1390 (a)	26.8	335.3(b)	85.8 (d)	20
Molybdenum						
Nickel	47.3	62.1 (a)	26.8	55.1N(c)	38.4 (d)	20
Potassium	2880	4130 (a)	1340	93.2	30.7 (d)	20
Selenium	0.0	38.5 (a)	107	35.9N(c)	54.9 (d)	20
Silver	1.2	2.9 (a)	2.68	63.3N(c)	31.9 (d)	20
Sodium	0.00	1360 (a)	1340	101.3	21.1 (d)	20
Strontium						
Thallium	0.0	97.9 (a)	107	91.2	28.2 (d)	20
Tin	anr					
Titanium						
Vanadium	242	150 (a)	26.8	-342.8(b	13.7	20
Zinc	114	112 (a)	26.8	-7.5 (b)	20.8 (d)	20

Associated samples MP24916: FA3075-1, FA3075-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(c) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.
(d) High RPD due to possible sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA3075
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24916
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/05/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1350	1350	100.0	80-120
Antimony	24.7	25	98.8	80-120
Arsenic	96.7	100	96.7	80-120
Barium	105	100	105.0	80-120
Beryllium	2.6	2.5	104.0	80-120
Cadmium	2.5	2.5	100.0	80-120
Calcium	1230	1250	98.4	80-120
Chromium	10.4	10	104.0	80-120
Cobalt	25.6	25	102.4	80-120
Copper	12.8	12.5	102.4	80-120
Iron	1340	1300	103.1	80-120
Lead	23.6	25	94.4	80-120
Magnesium	1190	1250	95.2	80-120
Manganese	25.7	25	102.8	80-120
Molybdenum				
Nickel	25.6	25	102.4	80-120
Potassium	1280	1250	102.4	80-120
Selenium	88.5	100	88.5	80-120
Silver	2.4	2.5	96.0	80-120
Sodium	1280	1250	102.4	80-120
Strontium				
Thallium	93.5	100	93.5	80-120
Tin	anr			
Titanium				
Vanadium	25.1	25	100.4	80-120
Zinc	25.2	25	100.8	80-120

Associated samples MP24916: FA3075-1, FA3075-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA3075
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24916
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/05/13

Metal	FA3358-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	907000	777000	14.3*(a)	0-10
Antimony	22.1	0.00	100.0(b)	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	6000	11200	87.2*(a)	0-10
Beryllium	9.50	14.0	47.4 (b)	0-10
Cadmium	36.3	32.6	10.2 (b)	0-10
Calcium	75800	89600	18.3*(a)	0-10
Chromium	2430	1910	21.2*(a)	0-10
Cobalt	795	3450	333.8*(a	0-10
Copper	2940	3280	11.7*(a)	0-10
Iron	1530000	1320000	13.9*(a)	0-10
Lead	61.0	46.4	23.9*(a)	0-10
Magnesium	334000	362000	8.3	0-10
Manganese	25000	116000	362.9*(a	0-10
Molybdenum				
Nickel	914	1560	70.6*(a)	0-10
Potassium	55600	67500	21.2*(a)	0-10
Selenium	0.00	0.00	NC	0-10
Silver	22.3	36.9	65.5 (b)	0-10
Sodium	0.00	0.00	NC	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin	anr			
Titanium				
Vanadium	4670	3530	24.5*(a)	0-10
Zinc	2200	2580	17.3*(a)	0-10

Associated samples MP24916: FA3075-1, FA3075-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA3075
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24916
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/05/13

Metal	Sample ml	Final ml	FA3358-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	907300	889154	820700	0.2	125	2500	-2738.2*a	80-120
Antimony	9.8	10	22.1	21.658	101.7	0.2	5	100	80.0	80-120
Arsenic	9.8	10	0	0	70.5	0.2	5	100	70.5*(a)	80-120
Barium	9.8	10	5999	5879.02	5696	0.2	12.5	250	-73.2*(a	80-120
Beryllium	9.8	10	9.5	9.31	51.6	0.2	2.5	50	84.6	80-120
Cadmium	9.8	10	36.3	35.574	71.3	0.2	2.5	50	71.5*(a)	80-120
Calcium	9.8	10	75750	74235	72440	0.2	250	5000	-35.9*(a	80-120
Chromium	9.8	10	2429	2380.42	2242	0.2	2.5	50	-276.8*a	80-120
Cobalt	9.8	10	795.3	779.394	762.1	0.2	2.5	50	-34.6*(a	80-120
Copper	9.8	10	2936	2877.28	2794	0.2	5	100	-83.3*(a	80-120
Iron	9.8	10	1529000	1498420	1404000	0.2	150	3000	-3147.3*a	80-120
Lead	9.8	10	61	59.78	126.9	0.2	2.5	50	134.2*(a	80-120
Magnesium	9.8	10	334300	327614	307500	0.2	250	5000	-402.3*a	80-120
Manganese	9.8	10	25040	24539.2	23190	0.2	2.5	50	-2698.4*a	80-120
Molybdenum										
Nickel	9.8	10	914.2	895.916	926.3	0.2	5	100	30.4*(a)	80-120
Potassium	9.8	10	55640	54527.2	60040	0.2	500	10000	55.1*(a)	80-120
Selenium	9.8	10	0	0	46.5	0.2	5	100	46.5*(a)	80-120
Silver	9.8	10	22.3	21.854	59.9	0.2	2.5	50	76.1*(a)	80-120
Sodium	9.8	10	0	0	10090	0.2	500	10000	100.9	80-120
Strontium										
Thallium	9.8	10	0	0	0	0.2	5	100	0.0* (a)	80-120
Tin										
Titanium										
Vanadium	9.8	10	4674	4580.52	4322	0.2	2.5	50	-517.0*a	80-120
Zinc	9.8	10	2200	2156	2228	0.2	12.5	250	28.8*(a)	80-120

Associated samples MP24916: FA3075-1, FA3075-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

04/09/13

Technical Report for

Nation View

Holloman AFB; SD-08 Subsurface Soil Event

10-0004.10.010

Accutest Job Number: FA3118

Sampling Date: 03/26/13

Report to:

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Total number of pages in report: **44**

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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: Jean Dent-Smith 407-425-6700

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Sample Summary

Nation View

Job No: FA3118

Holloman AFB; SD-08 Subsurface Soil Event
Project No: 10-0004.10.010

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA3118-1	03/26/13	14:00	ZBTL	03/28/13	SO	Soil	SD08-MW11-SB-05'
FA3118-1D	03/26/13	14:00	ZBTL	03/28/13	SO	Soil Dup/MSD	SD08-MW11-SB-05'
FA3118-1S	03/26/13	14:00	ZBTL	03/28/13	SO	Soil Matrix Spike	SD08-MW11-SB-05'
FA3118-2	03/26/13	14:15	ZBTL	03/28/13	SO	Soil	SD08-MW11-SB-09'
FA3118-3	03/26/13	14:15	ZBTL	03/28/13	SO	Soil	SD08-MW11-SB-09' A

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA3118
Account: Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event
Collected: 03/26/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA3118-1	**SD08-MW11-SB-05'**					
Aluminum		1990	8.5	0.85	mg/kg	SW846 6010C
Arsenic		0.63	0.43	0.068	mg/kg	SW846 6010C
Barium		27.7	8.5	0.21	mg/kg	SW846 6010C
Beryllium		0.094 J	0.21	0.021	mg/kg	SW846 6010C
Calcium		143000	2100	21	mg/kg	SW846 6010C
Chromium [a]		2.5 J	4.3	0.77	mg/kg	SW846 6010C
Cobalt		0.87 J	2.1	0.021	mg/kg	SW846 6010C
Copper		1.1	1.1	0.077	mg/kg	SW846 6010C
Iron		1820	13	3.0	mg/kg	SW846 6010C
Lead [a]		4.0 J	8.5	0.47	mg/kg	SW846 6010C
Magnesium		1400	210	3.2	mg/kg	SW846 6010C
Manganese		24.9	0.64	0.038	mg/kg	SW846 6010C
Nickel		1.9	1.7	0.021	mg/kg	SW846 6010C
Potassium		760	430	8.5	mg/kg	SW846 6010C
Sodium		832	430	21	mg/kg	SW846 6010C
Vanadium		4.6	2.1	0.021	mg/kg	SW846 6010C
Zinc [a]		9.6	8.5	1.3	mg/kg	SW846 6010C
FA3118-2	**SD08-MW11-SB-09'**					
Aluminum		7010	12	1.2	mg/kg	SW846 6010C
Arsenic		1.6	0.58	0.093	mg/kg	SW846 6010C
Barium		66.8	12	0.29	mg/kg	SW846 6010C
Beryllium		0.56	0.29	0.029	mg/kg	SW846 6010C
Calcium [a]		152000	1500	15	mg/kg	SW846 6010C
Chromium		10.7	2.9	0.52	mg/kg	SW846 6010C
Cobalt		3.4	2.9	0.029	mg/kg	SW846 6010C
Copper		4.3	1.5	0.10	mg/kg	SW846 6010C
Iron		6110	17	4.1	mg/kg	SW846 6010C
Lead [a]		8.9	5.8	0.32	mg/kg	SW846 6010C
Magnesium		10300	290	4.4	mg/kg	SW846 6010C
Manganese		125	0.87	0.052	mg/kg	SW846 6010C
Nickel		9.1	2.3	0.029	mg/kg	SW846 6010C
Potassium		1820	580	12	mg/kg	SW846 6010C
Sodium		1060	580	29	mg/kg	SW846 6010C
Vanadium		10.7	2.9	0.029	mg/kg	SW846 6010C
Zinc [a]		31.2	5.8	0.87	mg/kg	SW846 6010C
FA3118-3	**SD08-MW11-SB-09'A**					
Aluminum		4000	9.0	0.90	mg/kg	SW846 6010C
Arsenic		2.1	0.45	0.072	mg/kg	SW846 6010C
Barium		54.1	9.0	0.23	mg/kg	SW846 6010C

Summary of Hits

Job Number: FA3118
Account: Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event
Collected: 03/26/13

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Beryllium	0.37	0.23	0.023	mg/kg	SW846 6010C
Calcium	135000	1100	11	mg/kg	SW846 6010C
Chromium [a]	7.4	2.3	0.41	mg/kg	SW846 6010C
Cobalt	2.5	2.3	0.023	mg/kg	SW846 6010C
Copper	3.6	1.1	0.081	mg/kg	SW846 6010C
Iron	4490	14	3.2	mg/kg	SW846 6010C
Lead [a]	7.7	4.5	0.25	mg/kg	SW846 6010C
Magnesium	7530	230	3.4	mg/kg	SW846 6010C
Manganese	99.9	0.68	0.041	mg/kg	SW846 6010C
Nickel	6.1	1.8	0.023	mg/kg	SW846 6010C
Potassium	1170	450	9.0	mg/kg	SW846 6010C
Sodium	1020	450	23	mg/kg	SW846 6010C
Vanadium	10.5	2.3	0.023	mg/kg	SW846 6010C
Zinc [a]	23.6	4.5	0.68	mg/kg	SW846 6010C

(a) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SD08-MW11-SB-05'		
Lab Sample ID:	FA3118-1	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/28/13
Method:	SW846 8260B	**Percent Solids:**	86.4
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0087951.D	1	03/28/13	EP	n/a	n/a	VG3160
Run #2							

	Initial Weight
Run #1	7.16 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	16	ug/kg	
107-02-8	Acrolein	ND	20	7.0	ug/kg	
107-13-1	Acrylonitrile	ND	20	8.1	ug/kg	
71-43-2	Benzene	ND	4.0	0.81	ug/kg	
108-86-1	Bromobenzene	ND	4.0	0.87	ug/kg	
74-97-5	Bromochloromethane	ND	4.0	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	4.0	1.1	ug/kg	
75-25-2	Bromoform	ND	4.0	0.81	ug/kg	
104-51-8	n-Butylbenzene	ND	4.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.0	0.98	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.0	0.96	ug/kg	
108-90-7	Chlorobenzene	ND	4.0	0.81	ug/kg	
75-00-3	Chloroethane	ND	4.0	1.6	ug/kg	
67-66-3	Chloroform	ND	4.0	0.81	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.0	0.81	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.0	0.93	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	20	8.1	ug/kg	
75-15-0	Carbon disulfide	ND	4.0	1.6	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.0	0.92	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.0	0.81	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.0	0.99	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.0	0.81	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.0	0.81	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.0	0.97	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.0	0.81	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.0	0.81	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.0	0.81	ug/kg	
124-48-1	Dibromochloromethane [a]	ND	4.0	0.81	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.0	0.81	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.0	0.81	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	0.81	ug/kg	

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:	SD08-MW11-SB-05'		
Lab Sample ID:	FA3118-1	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/28/13
Method:	SW846 8260B	**Percent Solids:**	86.4
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	4.0	0.81	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.0	0.88	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.0	0.81	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	0.81	ug/kg	
100-41-4	Ethylbenzene	ND	4.0	0.89	ug/kg	
591-78-6	2-Hexanone	ND	20	4.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.0	1.6	ug/kg	
98-82-8	Isopropylbenzene	ND	4.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.0	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	20	4.0	ug/kg	
74-83-9	Methyl bromide	ND	4.0	1.6	ug/kg	
74-87-3	Methyl chloride	ND	4.0	1.7	ug/kg	
74-95-3	Methylene bromide	ND	4.0	0.84	ug/kg	
75-09-2	Methylene chloride	ND	8.1	3.7	ug/kg	
78-93-3	Methyl ethyl ketone	ND	20	4.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	0.81	ug/kg	
91-20-3	Naphthalene	ND	4.0	1.6	ug/kg	
103-65-1	n-Propylbenzene	ND	4.0	0.83	ug/kg	
100-42-5	Styrene	ND	4.0	0.81	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.0	0.86	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.0	0.81	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	0.81	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.0	0.81	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.0	0.85	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.0	1.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	0.95	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.0	0.87	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.0	0.85	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.0	0.93	ug/kg	
108-88-3	Toluene	ND	4.0	0.81	ug/kg	
79-01-6	Trichloroethylene	ND	4.0	0.81	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.0	1.6	ug/kg	
75-01-4	Vinyl chloride	ND	4.0	0.81	ug/kg	
108-05-4	Vinyl Acetate	ND	20	3.3	ug/kg	
	m,p-Xylene	ND	8.1	1.7	ug/kg	
95-47-6	o-Xylene	ND	4.0	0.81	ug/kg	

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:	SD08-MW11-SB-05'		
Lab Sample ID:	FA3118-1	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/28/13
Method:	SW846 8260B	**Percent Solids:**	86.4
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-121%
2037-26-5	Toluene-D8	93%		71-130%
460-00-4	4-Bromofluorobenzene	90%		59-148%
17060-07-0	1,2-Dichloroethane-D4	101%		77-123%

(a) Associated BS recovery outside 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:	SD08-MW11-SB-05'		
Lab Sample ID:	FA3118-1	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/28/13
		Percent Solids:	86.4
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1990	8.5	0.85	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Antimony [a]	0.81 U	8.5	0.81	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Arsenic	0.63	0.43	0.068	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Barium	27.7	8.5	0.21	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Beryllium	0.094 J	0.21	0.021	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Cadmium [a]	0.21 U	1.7	0.21	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Calcium	143000	2100	21	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Chromium [a]	2.5 J	4.3	0.77	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Cobalt	0.87 J	2.1	0.021	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Copper	1.1	1.1	0.077	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Iron	1820	13	3.0	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Lead [a]	4.0 J	8.5	0.47	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Magnesium	1400	210	3.2	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Manganese	24.9	0.64	0.038	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Mercury	0.0047 U	0.047	0.0047	mg/kg	1	04/02/13	04/02/13	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	1.9	1.7	0.021	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Potassium	760	430	8.5	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Selenium [a]	1.3 U	8.5	1.3	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Silver	0.021 U	0.43	0.021	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Sodium	832	430	21	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Thallium [a]	0.77 U	4.3	0.77	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Vanadium	4.6	2.1	0.021	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Zinc [a]	9.6	8.5	1.3	mg/kg	10	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]

(1) Instrument QC Batch: MA10645
(2) Instrument QC Batch: MA10657
(3) Instrument QC Batch: MA10658
(4) Prep QC Batch: MP24896
(5) Prep QC Batch: MP24919

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SD08-MW11-SB-09'		
Lab Sample ID:	FA3118-2	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/28/13
Method:	SW846 8260B	**Percent Solids:**	81.8
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0087952.D	1	03/28/13	EP	n/a	n/a	VG3160
Run #2							

	Initial Weight
Run #1	7.33 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	42	17	ug/kg	
107-02-8	Acrolein	ND	21	7.2	ug/kg	
107-13-1	Acrylonitrile	ND	21	8.3	ug/kg	
71-43-2	Benzene	ND	4.2	0.83	ug/kg	
108-86-1	Bromobenzene	ND	4.2	0.90	ug/kg	
74-97-5	Bromochloromethane	ND	4.2	1.2	ug/kg	
75-27-4	Bromodichloromethane	ND	4.2	1.2	ug/kg	
75-25-2	Bromoform	ND	4.2	0.83	ug/kg	
104-51-8	n-Butylbenzene	ND	4.2	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.2	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.2	0.99	ug/kg	
108-90-7	Chlorobenzene	ND	4.2	0.83	ug/kg	
75-00-3	Chloroethane	ND	4.2	1.7	ug/kg	
67-66-3	Chloroform	ND	4.2	0.83	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.2	0.83	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.2	0.96	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	21	8.3	ug/kg	
75-15-0	Carbon disulfide	ND	4.2	1.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.2	0.95	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.2	0.83	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.2	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.2	0.83	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.2	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.2	0.83	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.2	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.2	0.83	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.2	0.83	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.2	0.83	ug/kg	
124-48-1	Dibromochloromethane [a]	ND	4.2	0.83	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.2	0.83	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.2	0.83	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.2	0.83	ug/kg	

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:	SD08-MW11-SB-09'		
Lab Sample ID:	FA3118-2	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/28/13
Method:	SW846 8260B	**Percent Solids:**	81.8
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	4.2	0.83	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.2	0.91	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.2	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.2	0.83	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.2	0.83	ug/kg	
100-41-4	Ethylbenzene	ND	4.2	0.92	ug/kg	
591-78-6	2-Hexanone	ND	21	4.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.2	1.7	ug/kg	
98-82-8	Isopropylbenzene	ND	4.2	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.2	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	21	4.2	ug/kg	
74-83-9	Methyl bromide	ND	4.2	1.7	ug/kg	
74-87-3	Methyl chloride	ND	4.2	1.7	ug/kg	
74-95-3	Methylene bromide	ND	4.2	0.87	ug/kg	
75-09-2	Methylene chloride	ND	8.3	3.8	ug/kg	
78-93-3	Methyl ethyl ketone	ND	21	4.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.2	0.83	ug/kg	
91-20-3	Naphthalene	ND	4.2	1.7	ug/kg	
103-65-1	n-Propylbenzene	ND	4.2	0.86	ug/kg	
100-42-5	Styrene	ND	4.2	0.83	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.2	0.89	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.2	0.83	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.2	0.83	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.2	0.83	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.2	0.88	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.2	1.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.2	0.98	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.2	0.90	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.2	0.88	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.2	0.96	ug/kg	
108-88-3	Toluene	ND	4.2	0.83	ug/kg	
79-01-6	Trichloroethylene	ND	4.2	0.83	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.2	1.7	ug/kg	
75-01-4	Vinyl chloride	ND	4.2	0.83	ug/kg	
108-05-4	Vinyl Acetate	ND	21	3.5	ug/kg	
	m,p-Xylene	ND	8.3	1.7	ug/kg	
95-47-6	o-Xylene	ND	4.2	0.83	ug/kg	

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:	SD08-MW11-SB-09'		
Lab Sample ID:	FA3118-2	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/28/13
Method:	SW846 8260B	**Percent Solids:**	81.8
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-121%
2037-26-5	Toluene-D8	93%		71-130%
460-00-4	4-Bromofluorobenzene	97%		59-148%
17060-07-0	1,2-Dichloroethane-D4	103%		77-123%

(a) Associated BS recovery outside 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:	SD08-MW11-SB-09'		
Lab Sample ID:	FA3118-2	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/28/13
		Percent Solids:	81.8
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7010	12	1.2	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Antimony [a]	0.55 U	5.8	0.55	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Arsenic	1.6	0.58	0.093	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Barium	66.8	12	0.29	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Beryllium	0.56	0.29	0.029	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Cadmium [a]	0.15 U	1.2	0.15	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Calcium [a]	152000	1500	15	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Chromium	10.7	2.9	0.52	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Cobalt	3.4	2.9	0.029	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Copper	4.3	1.5	0.10	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Iron	6110	17	4.1	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Lead [a]	8.9	5.8	0.32	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Magnesium	10300	290	4.4	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Manganese	125	0.87	0.052	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Mercury	0.0049 U	0.049	0.0049	mg/kg	1	04/02/13	04/02/13	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	9.1	2.3	0.029	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Potassium	1820	580	12	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Selenium [a]	0.87 U	5.8	0.87	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Silver	0.029 U	0.58	0.029	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Sodium	1060	580	29	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Thallium [a]	0.52 U	2.9	0.52	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Vanadium	10.7	2.9	0.029	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Zinc [a]	31.2	5.8	0.87	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]

(1) Instrument QC Batch: MA10645
(2) Instrument QC Batch: MA10657
(3) Instrument QC Batch: MA10658
(4) Prep QC Batch: MP24896
(5) Prep QC Batch: MP24919

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SD08-MW11-SB-09'A		
Lab Sample ID:	FA3118-3	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/28/13
Method:	SW846 8260B	**Percent Solids:**	79.0
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0087953.D	1	03/28/13	EP	n/a	n/a	VG3160
Run #2							

	Initial Weight
Run #1	7.19 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	44	18	ug/kg	
107-02-8	Acrolein	ND	22	7.6	ug/kg	
107-13-1	Acrylonitrile	ND	22	8.8	ug/kg	
71-43-2	Benzene	ND	4.4	0.88	ug/kg	
108-86-1	Bromobenzene	ND	4.4	0.95	ug/kg	
74-97-5	Bromochloromethane	ND	4.4	1.2	ug/kg	
75-27-4	Bromodichloromethane	ND	4.4	1.2	ug/kg	
75-25-2	Bromoform	ND	4.4	0.88	ug/kg	
104-51-8	n-Butylbenzene	ND	4.4	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.4	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.4	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	4.4	0.88	ug/kg	
75-00-3	Chloroethane	ND	4.4	1.8	ug/kg	
67-66-3	Chloroform	ND	4.4	0.88	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.4	0.88	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.4	1.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	22	8.8	ug/kg	
75-15-0	Carbon disulfide	ND	4.4	1.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.4	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.4	0.88	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.4	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.4	0.88	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.4	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.4	0.88	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.4	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.4	0.88	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.4	0.88	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.4	0.88	ug/kg	
124-48-1	Dibromochloromethane [a]	ND	4.4	0.88	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.4	0.88	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.4	0.88	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.4	0.88	ug/kg	

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:	SD08-MW11-SB-09'A		
Lab Sample ID:	FA3118-3	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/28/13
Method:	SW846 8260B	**Percent Solids:**	79.0
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	4.4	0.88	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.4	0.96	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.4	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.4	0.88	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.4	0.88	ug/kg	
100-41-4	Ethylbenzene	ND	4.4	0.97	ug/kg	
591-78-6	2-Hexanone	ND	22	4.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.4	1.8	ug/kg	
98-82-8	Isopropylbenzene	ND	4.4	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.4	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	22	4.4	ug/kg	
74-83-9	Methyl bromide	ND	4.4	1.8	ug/kg	
74-87-3	Methyl chloride	ND	4.4	1.8	ug/kg	
74-95-3	Methylene bromide	ND	4.4	0.92	ug/kg	
75-09-2	Methylene chloride	ND	8.8	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	22	4.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.4	0.88	ug/kg	
91-20-3	Naphthalene	ND	4.4	1.8	ug/kg	
103-65-1	n-Propylbenzene	ND	4.4	0.91	ug/kg	
100-42-5	Styrene	ND	4.4	0.88	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.4	0.94	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.4	0.88	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.4	0.88	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.4	0.88	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.4	0.92	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.4	1.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.4	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.4	0.95	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.4	0.92	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.4	1.0	ug/kg	
108-88-3	Toluene	ND	4.4	0.88	ug/kg	
79-01-6	Trichloroethylene	ND	4.4	0.88	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.4	1.8	ug/kg	
75-01-4	Vinyl chloride	ND	4.4	0.88	ug/kg	
108-05-4	Vinyl Acetate	ND	22	3.6	ug/kg	
	m,p-Xylene	ND	8.8	1.8	ug/kg	
95-47-6	o-Xylene	ND	4.4	0.88	ug/kg	

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:	SD08-MW11-SB-09' A		
Lab Sample ID:	FA3118-3	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/28/13
Method:	SW846 8260B	**Percent Solids:**	79.0
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-121%
2037-26-5	Toluene-D8	94%		71-130%
460-00-4	4-Bromofluorobenzene	95%		59-148%
17060-07-0	1,2-Dichloroethane-D4	103%		77-123%

(a) Associated BS recovery outside 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:	SD08-MW11-SB-09' A		
Lab Sample ID:	FA3118-3	**Date Sampled:**	03/26/13
Matrix:	SO - Soil	**Date Received:**	03/28/13
		Percent Solids:	79.0
Project:	Holloman AFB; SD-08 Subsurface Soil Event		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4000	9.0	0.90	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Antimony [a]	0.43 U	4.5	0.43	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Arsenic	2.1	0.45	0.072	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Barium	54.1	9.0	0.23	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Beryllium	0.37	0.23	0.023	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Cadmium [a]	0.11 U	0.90	0.11	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Calcium	135000	1100	11	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Chromium [a]	7.4	2.3	0.41	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Cobalt	2.5	2.3	0.023	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Copper	3.6	1.1	0.081	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Iron	4490	14	3.2	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Lead [a]	7.7	4.5	0.25	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Magnesium	7530	230	3.4	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Manganese	99.9	0.68	0.041	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Mercury	0.0048 U	0.048	0.0048	mg/kg	1	04/02/13	04/02/13	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	6.1	1.8	0.023	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Potassium	1170	450	9.0	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Selenium [a]	0.68 U	4.5	0.68	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Silver	0.023 U	0.45	0.023	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Sodium	1020	450	23	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Thallium [a]	0.41 U	2.3	0.41	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]
Vanadium	10.5	2.3	0.023	mg/kg	1	04/05/13	04/05/13	LM	SW846 6010C [2]	SW846 3050B [5]
Zinc [a]	23.6	4.5	0.68	mg/kg	5	04/05/13	04/08/13	LM	SW846 6010C [3]	SW846 3050B [5]

(1) Instrument QC Batch: MA10645
(2) Instrument QC Batch: MA10657
(3) Instrument QC Batch: MA10658
(4) Prep QC Batch: MP24896
(5) Prep QC Batch: MP24919

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

NATIONVIEW

FA3118

Chain of Custody and Analytical Request

Page: 1 of 1
Project No: 10-0004.10.010
COC Number(1): 03272013-1
LIMS Number:

Facility/Base I.D.: HAFB
Project/Site Name: SD-08 Subsurface Soil Event
Client Name: USACE- Omaha District
Collected by: Zachary Beck / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC's 8260	TAL Metals 6010B/7041A	% Solids						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SDO8-MW11-SB-05'	SDO8-MW11	26032013	1400	4 - 5	N	1	SO	4	[1]	[1]	[1]									1
	SDO8-MW11-SB-05' MS	SDO8-MW11	26032013	1400	4 - 5	N	1	SO	4	[1]	[1]	[1]									1
	SDO8-MW11-SB-05' MSD	SDO8-MW11	26032013	1400	4 - 5	N	1	SO	4	[1]	[1]	[1]									1
2	SDO8-MW11-SB-09'	SDO8-MW11	26032013	1415	8 - 9	N	1	SO	4	[1]	[1]	[1]									1
3	SDO8-MW10-SB-09'A	SDO8-MW11	26032013	1415	8 - 9	N	1	SO	4	[1]	[1]	[1]									1
	Trip Blank	Field QC	26032013		-	TB	1	AQ	1	[1]											1
					-																
					-																
					-																
					-																
					-																

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Tony Lucero	3272013	1600	1. FX		10:00
2.	FX			2. Leonard (ALSK)	3-28-13	
3.				3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest
Lab Recipient:
Shipped No.:
Airbill Number: 799380680747
Delivery Location: Orlando FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

3.6

4.1
4

FA3118: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 3118 CLIENT: NATIONVIEW PROJECT: SD-08

DATE/TIME RECEIVED: 3-28-13 10:00 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7993 8068 0747

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

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] 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 3 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.6

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: TB NOT PROVIDE.

TECHNICIAN SIGNATURE/DATE JC 3-28-13 REVIEWER SIGNATURE/DATE [signature] 03-28-13

NF 12/10

receipt confirmation 122910.xls

4.1

4

FA3118: Chain of Custody

Page 2 of 3

Job Change Order: FA3118_4/2/2013

Requested Date:	4/2/2013	**Received Date:**	3/28/2013
Account Name:	Nation View	**Due Date:**	4/11/2013
Project	Holloman AFB; SD-08 Subsurface Soil Event	**Deliverable:**	COMMB
CSR:	JDS	**TAT (Days):**	1

Sample #:
FA3118-3

Change: Please correct sample ID, per client COC is incorrect. ID should be, SD08-MW11-SB-09'A, it is a duplicate of sample FA3118-2.
Thank you.

SD08-MW10-SB-09'A

Above Changes Per: client, Marcia Olive, via e-mailed **Date:** 4/2/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

FA3118: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA3118
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3160-MB	G0087942.D	1	03/28/13	EP	n/a	n/a	VG3160

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3118-1, FA3118-2, FA3118-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
107-02-8	Acrolein	ND	25	8.7	ug/kg	
107-13-1	Acrylonitrile	ND	25	10	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.4	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.2	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.2	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: FA3118
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3160-MB	G0087942.D	1	03/28/13	EP	n/a	n/a	VG3160

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3118-1, FA3118-2, FA3118-3

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.1	ug/kg	
591-78-6	2-Hexanone	ND	25	5.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.1	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.0	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.2	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	4.1	ug/kg	
	m,p-Xylene	ND	10	2.1	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: FA3118
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3160-MB	G0087942.D	1	03/28/13	EP	n/a	n/a	VG3160

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3118-1, FA3118-2, FA3118-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	91%	80-121%
2037-26-5	Toluene-D8	96%	71-130%
460-00-4	4-Bromofluorobenzene	94%	59-148%
17060-07-0	1,2-Dichloroethane-D4	97%	77-123%

Blank Spike Summary

Job Number: FA3118
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3160-BS	G0087941.D	1	03/28/13	EP	n/a	n/a	VG3160

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3118-1, FA3118-2, FA3118-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	307	123	61-144
107-02-8	Acrolein	250	276	110	27-156
107-13-1	Acrylonitrile	250	259	104	55-144
71-43-2	Benzene	50	57.0	114	78-130
108-86-1	Bromobenzene	50	57.0	114	78-123
74-97-5	Bromochloromethane	50	52.6	105	72-122
75-27-4	Bromodichloromethane	50	59.8	120	73-122
75-25-2	Bromoform	50	52.3	105	70-139
104-51-8	n-Butylbenzene	50	54.6	109	80-138
135-98-8	sec-Butylbenzene	50	58.4	117	82-132
98-06-6	tert-Butylbenzene	50	59.9	120	79-130
108-90-7	Chlorobenzene	50	59.4	119	83-122
75-00-3	Chloroethane	50	51.9	104	61-153
67-66-3	Chloroform	50	53.9	108	79-129
95-49-8	o-Chlorotoluene	50	59.1	118	77-123
106-43-4	p-Chlorotoluene	50	61.2	122	78-129
110-75-8	2-Chloroethyl vinyl ether	250	299	120	52-142
75-15-0	Carbon disulfide	50	50.1	100	61-142
56-23-5	Carbon tetrachloride	50	57.1	114	79-135
75-34-3	1,1-Dichloroethane	50	49.1	98	77-132
75-35-4	1,1-Dichloroethylene	50	55.7	111	66-132
563-58-6	1,1-Dichloropropene	50	55.8	112	81-133
96-12-8	1,2-Dibromo-3-chloropropane	50	57.0	114	67-129
106-93-4	1,2-Dibromoethane	50	61.5	123	77-126
107-06-2	1,2-Dichloroethane	50	58.6	117	78-129
78-87-5	1,2-Dichloropropane	50	59.1	118	74-127
142-28-9	1,3-Dichloropropane	50	55.6	111	78-118
594-20-7	2,2-Dichloropropane	50	57.6	115	80-137
124-48-1	Dibromochloromethane	50	61.1	122*	78-117
75-71-8	Dichlorodifluoromethane	50	58.3	117	35-162
156-59-2	cis-1,2-Dichloroethylene	50	53.6	107	74-123
10061-01-5	cis-1,3-Dichloropropene	50	57.4	115	79-130
541-73-1	m-Dichlorobenzene	50	60.1	120	82-126
95-50-1	o-Dichlorobenzene	50	59.7	119	83-123
106-46-7	p-Dichlorobenzene	50	56.9	114	84-124
156-60-5	trans-1,2-Dichloroethylene	50	56.4	113	77-129

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA3118
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3160-BS	G0087941.D	1	03/28/13	EP	n/a	n/a	VG3160

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3118-1, FA3118-2, FA3118-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	60.0	120	87-131
100-41-4	Ethylbenzene	50	55.9	112	82-124
591-78-6	2-Hexanone	250	302	121	67-130
87-68-3	Hexachlorobutadiene	50	54.7	109	77-150
98-82-8	Isopropylbenzene	50	59.0	118	82-133
99-87-6	p-Isopropyltoluene	50	58.5	117	82-132
108-10-1	4-Methyl-2-pentanone	250	297	119	69-125
74-83-9	Methyl bromide	50	48.5	97	60-146
74-87-3	Methyl chloride	50	50.7	101	58-163
74-95-3	Methylene bromide	50	59.0	118	75-128
75-09-2	Methylene chloride	50	59.6	119	62-140
78-93-3	Methyl ethyl ketone	250	307	123	66-134
1634-04-4	Methyl Tert Butyl Ether	50	52.3	105	70-131
91-20-3	Naphthalene	50	56.6	113	59-143
103-65-1	n-Propylbenzene	50	61.3	123	78-129
100-42-5	Styrene	50	57.2	114	79-123
630-20-6	1,1,1,2-Tetrachloroethane	50	60.6	121	81-121
71-55-6	1,1,1-Trichloroethane	50	55.9	112	80-133
79-34-5	1,1,2,2-Tetrachloroethane	50	58.6	117	70-128
79-00-5	1,1,2-Trichloroethane	50	58.3	117	76-118
87-61-6	1,2,3-Trichlorobenzene	50	54.2	108	78-136
96-18-4	1,2,3-Trichloropropane	50	61.0	122	74-125
120-82-1	1,2,4-Trichlorobenzene	50	55.7	111	82-137
95-63-6	1,2,4-Trimethylbenzene	50	56.4	113	77-129
108-67-8	1,3,5-Trimethylbenzene	50	55.6	111	79-129
127-18-4	Tetrachloroethylene	50	54.2	108	79-132
108-88-3	Toluene	50	56.7	113	80-123
79-01-6	Trichloroethylene	50	56.3	113	78-132
75-69-4	Trichlorofluoromethane	50	61.7	123	67-149
75-01-4	Vinyl chloride	50	56.3	113	60-145
108-05-4	Vinyl Acetate	250	254	102	25-164
	m,p-Xylene	100	117	117	82-128
95-47-6	o-Xylene	50	59.3	119	82-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA3118
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3160-BS	G0087941.D	1	03/28/13	EP	n/a	n/a	VG3160

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3118-1, FA3118-2, FA3118-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	80-121%
2037-26-5	Toluene-D8	96%	71-130%
460-00-4	4-Bromofluorobenzene	98%	59-148%
17060-07-0	1,2-Dichloroethane-D4	94%	77-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3118
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA3118-1MS	G0087954.D	1	03/28/13	EP	n/a	n/a	VG3160
FA3118-1MSD	G0087955.D	1	03/28/13	EP	n/a	n/a	VG3160
FA3118-1	G0087951.D	1	03/28/13	EP	n/a	n/a	VG3160

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3118-1, FA3118-2, FA3118-3

CAS No.	Compound	FA3118-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		204	187	92	177	87	5	61-144/29
107-02-8	Acrolein	ND		204	174	85	177	87	2	27-156/39
107-13-1	Acrylonitrile	ND		204	195	96	179	88	9	55-144/24
71-43-2	Benzene	ND		40.8	34.7	85	34.6	85	0	78-130/25
108-86-1	Bromobenzene	ND		40.8	35.2	86	34.7	85	1	78-123/30
74-97-5	Bromochloromethane	ND		40.8	40.1	98	33.9	83	17	72-122/23
75-27-4	Bromodichloromethane	ND		40.8	37.2	91	36.0	88	3	73-122/25
75-25-2	Bromoform	ND		40.8	33.4	82	32.1	79	4	70-139/26
104-51-8	n-Butylbenzene	ND		40.8	31.6	77*	31.6	77*	0	80-138/31
135-98-8	sec-Butylbenzene	ND		40.8	33.9	83	34.0	83	0	82-132/29
98-06-6	tert-Butylbenzene	ND		40.8	33.9	83	32.9	81	3	79-130/29
108-90-7	Chlorobenzene	ND		40.8	36.9	90	35.7	87	3	83-122/23
75-00-3	Chloroethane	ND		40.8	32.7	80	33.2	81	2	61-153/31
67-66-3	Chloroform	ND		40.8	38.2	94	33.6	82	13	79-129/27
95-49-8	o-Chlorotoluene	ND		40.8	35.0	86	33.9	83	3	77-123/31
106-43-4	p-Chlorotoluene	ND		40.8	34.9	86	34.4	84	1	78-129/29
110-75-8	2-Chloroethyl vinyl ether	ND		204	187	92	172	84	8	52-142/25
75-15-0	Carbon disulfide	ND		40.8	31.5	77	32.3	79	3	61-142/27
56-23-5	Carbon tetrachloride	ND		40.8	35.9	88	36.0	88	0	79-135/29
75-34-3	1,1-Dichloroethane	ND		40.8	35.8	88	35.7	87	0	77-132/26
75-35-4	1,1-Dichloroethylene	ND		40.8	32.9	81	34.0	83	3	66-132/27
563-58-6	1,1-Dichloropropene	ND		40.8	33.8	83	34.1	83	1	81-133/26
96-12-8	1,2-Dibromo-3-chloropropane	ND		40.8	36.4	89	33.7	82	8	67-129/29
106-93-4	1,2-Dibromoethane	ND		40.8	39.2	96	36.0	88	9	77-126/24
107-06-2	1,2-Dichloroethane	ND		40.8	35.8	88	35.6	87	1	78-129/24
78-87-5	1,2-Dichloropropane	ND		40.8	34.5	85	34.4	84	0	74-127/27
142-28-9	1,3-Dichloropropane	ND		40.8	34.5	85	33.0	81	4	78-118/26
594-20-7	2,2-Dichloropropane	ND		40.8	39.5	97	33.2	81	17	80-137/28
124-48-1	Dibromochloromethane	ND		40.8	39.6	97	37.0	91	7	78-117/27
75-71-8	Dichlorodifluoromethane	ND		40.8	34.0	83	35.1	86	3	35-162/30
156-59-2	cis-1,2-Dichloroethylene	ND		40.8	39.9	98	33.9	83	16	74-123/26
10061-01-5	cis-1,3-Dichloropropene	ND		40.8	35.9	88	33.1	81	8	79-130/23
541-73-1	m-Dichlorobenzene	ND		40.8	36.4	89	35.9	88	1	82-126/29
95-50-1	o-Dichlorobenzene	ND		40.8	36.6	90	36.6	90	0	83-123/28
106-46-7	p-Dichlorobenzene	ND		40.8	35.0	86	34.9	85	0	84-124/28
156-60-5	trans-1,2-Dichloroethylene	ND		40.8	33.6	82	33.7	82	0	77-129/27

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3118
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA3118-1MS	G0087954.D	1	03/28/13	EP	n/a	n/a	VG3160
FA3118-1MSD	G0087955.D	1	03/28/13	EP	n/a	n/a	VG3160
FA3118-1	G0087951.D	1	03/28/13	EP	n/a	n/a	VG3160

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3118-1, FA3118-2, FA3118-3

CAS No.	Compound	FA3118-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		40.8	38.3	94	36.5	89	5	87-131/27
100-41-4	Ethylbenzene	ND		40.8	34.7	85	33.2	81*	4	82-124/25
591-78-6	2-Hexanone	ND		204	190	93	168	82	12	67-130/29
87-68-3	Hexachlorobutadiene	ND		40.8	28.4	70*	31.0	76*	9	77-150/36
98-82-8	Isopropylbenzene	ND		40.8	35.7	87	35.0	86	2	82-133/27
99-87-6	p-Isopropyltoluene	ND		40.8	33.7	83	34.1	83	1	82-132/29
108-10-1	4-Methyl-2-pentanone	ND		204	187	92	167	82	11	69-125/24
74-83-9	Methyl bromide	ND		40.8	32.5	80	33.2	81	2	60-146/31
74-87-3	Methyl chloride	ND		40.8	31.4	77	31.2	76	1	58-163/26
74-95-3	Methylene bromide	ND		40.8	36.9	90	35.1	86	5	75-128/26
75-09-2	Methylene chloride	ND		40.8	36.1	88	37.9	93	5	62-140/25
78-93-3	Methyl ethyl ketone	ND		204	187	92	175	86	7	66-134/23
1634-04-4	Methyl Tert Butyl Ether	ND		40.8	34.1	84	34.0	83	0	70-131/25
91-20-3	Naphthalene	ND		40.8	35.1	86	35.7	87	2	59-143/31
103-65-1	n-Propylbenzene	ND		40.8	35.0	86	34.3	84	2	78-129/29
100-42-5	Styrene	ND		40.8	35.5	87	34.3	84	3	79-123/28
630-20-6	1,1,1,2-Tetrachloroethane	ND		40.8	37.6	92	37.5	92	0	81-121/25
71-55-6	1,1,1-Trichloroethane	ND		40.8	34.4	84	34.7	85	1	80-133/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		40.8	35.8	88	33.7	82	6	70-128/30
79-00-5	1,1,2-Trichloroethane	ND		40.8	37.0	91	35.0	86	6	76-118/28
87-61-6	1,2,3-Trichlorobenzene	ND		40.8	33.4	82	35.0	86	5	78-136/34
96-18-4	1,2,3-Trichloropropane	ND		40.8	37.4	92	35.1	86	6	74-125/30
120-82-1	1,2,4-Trichlorobenzene	ND		40.8	34.7	85	35.8	88	3	82-137/32
95-63-6	1,2,4-Trimethylbenzene	ND		40.8	33.7	83	33.3	81	1	77-129/29
108-67-8	1,3,5-Trimethylbenzene	ND		40.8	32.6	80	32.8	80	1	79-129/31
127-18-4	Tetrachloroethylene	ND		40.8	36.1	88	34.7	85	4	79-132/27
108-88-3	Toluene	ND		40.8	34.6	85	33.4	82	4	80-123/26
79-01-6	Trichloroethylene	ND		40.8	35.4	87	34.4	84	3	78-132/28
75-69-4	Trichlorofluoromethane	ND		40.8	37.6	92	38.2	93	2	67-149/29
75-01-4	Vinyl chloride	ND		40.8	33.3	82	34.1	83	2	60-145/29
108-05-4	Vinyl Acetate	ND		204	162	79	161	79	1	25-164/35
	m,p-Xylene	ND		81.6	71.8	88	68.2	83	5	82-128/25
95-47-6	o-Xylene	ND		40.8	35.7	87	35.3	86	1	82-126/25

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3118
Account: NATVALB Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA3118-1MS	G0087954.D	1	03/28/13	EP	n/a	n/a	VG3160
FA3118-1MSD	G0087955.D	1	03/28/13	EP	n/a	n/a	VG3160
FA3118-1	G0087951.D	1	03/28/13	EP	n/a	n/a	VG3160

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3118-1, FA3118-2, FA3118-3

CAS No.	Surrogate Recoveries	MS	MSD	FA3118-1	Limits
1868-53-7	Dibromofluoromethane	96%	99%	97%	80-121%
2037-26-5	Toluene-D8	96%	90%	93%	71-130%
460-00-4	4-Bromofluorobenzene	95%	93%	90%	59-148%
17060-07-0	1,2-Dichloroethane-D4	96%	94%	101%	77-123%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA3118
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24896 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 04/02/13

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.042	.0025	.0042	-0.00036	<0.042

Associated samples MP24896: FA3118-1, FA3118-2, FA3118-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3118
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24896
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 04/02/13 04/02/13

Metal	FA3118-1 Original	DUP	RPD	QC Limits	FA3118-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	0.31	0.271	114.3	80-120

Associated samples MP24896: FA3118-1, FA3118-2, FA3118-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3118
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24896 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 04/02/13

Metal	FA3118-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.30	0.271	110.6	3.3	20

Associated samples MP24896: FA3118-1, FA3118-2, FA3118-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA3118
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24896
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 04/02/13

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	80-120

Associated samples MP24896: FA3118-1, FA3118-2, FA3118-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA3118
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24896
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date:			04/02/13				04/02/13	
Metal	FA3118-1 Original	SDL 1:5	%DIF	QC Limits	FA3119-6A Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10	0.205	0.00	100.0(a)	0-10

Associated samples MP24896: FA3118-1, FA3118-2, FA3118-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA3118
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24919
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/05/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.75	1	0.44	<10
Antimony	1.0	.065	.095	-0.11	<1.0
Arsenic	0.50	.08	.08	-0.035	<0.50
Barium	10	.05	.25	0.0050	<10
Beryllium	0.25	.025	.025	-0.0050	<0.25
Cadmium	0.20	.025	.025	-0.010	<0.20
Calcium	250	2.5	2.5	8.8	<250
Chromium	0.50	.09	.09	0.020	<0.50
Cobalt	2.5	.025	.025	-0.010	<2.5
Copper	1.3	.05	.09	0.0	<1.3
Iron	15	1.5	3.5	3.9	<15
Lead	1.0	.055	.055	-0.020	<1.0
Magnesium	250	3.7	3.8	0.80	<250
Manganese	0.75	.035	.045	0.020	<0.75
Molybdenum	2.5	.03	.03		
Nickel	2.0	.025	.025	0.045	<2.0
Potassium	500	10	10	1.5	<500
Selenium	1.0	.1	.15	0.030	<1.0
Silver	0.50	.025	.025	-0.015	<0.50
Sodium	500	25	25	0.78	<500
Strontium	0.50	.025	.025		
Thallium	0.50	.065	.09	-0.095	<0.50
Tin	2.5	.035	.035		
Titanium	0.50	.045	.045		
Vanadium	2.5	.025	.025	0.020	<2.5
Zinc	1.0	.15	.15	0.035	<1.0

Associated samples MP24919: FA3118-1, FA3118-2, FA3118-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3118
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24919
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			04/05/13					04/05/13	
Metal	FA3118-1 Original	DUP	RPD	QC Limits	FA3118-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1990	1940	2.5	0-20	1990	3030	1010	103.2	80-120
Antimony	0.0	0.0 (a)	NC	0-20	0.0	6.8 (a)	18.7	36.4N(d)	80-120
Arsenic	0.94	0.61	3.2	0-20	0.94	78.9	74.7	104.8	80-120
Barium	28.9	28.6	3.2	0-20	28.9	103	74.7	100.8	80-120
Beryllium	0.094	0.085	10.1	0-20	0.094	1.8	1.87	91.4	80-120
Cadmium	0.0	0.0 (a)	NC	0-20	0.0	0.80 (a)	1.87	42.9N(d)	80-120
Calcium	143000	113000	23.4*(b)	0-20	143000	141000	933	-214.3(e	80-120
Chromium	2.5	2.1 (a)	17.4	0-20	2.5	9.8 (a)	7.47	97.8	80-120
Cobalt	0.87	0.78	10.9	0-20	0.87	17.1	18.7	86.9	80-120
Copper	1.1	1.1	0.0	0-20	1.1	10.2	9.33	97.5	80-120
Iron	1820	1780	2.2	0-20	1820	2710	971	91.7	80-120
Lead	4.0	2.7 (a)	38.8 (c)	0-20	4.0	19.4 (a)	18.7	82.5	80-120
Magnesium	1590	1360	2.9	0-20	1590	2150	933	80.4	80-120
Manganese	24.9	21.8	13.3	0-20	24.9	40.0	18.7	80.9	80-120
Molybdenum									
Nickel	1.9	1.7	11.1	0-20	1.9	18.1	18.7	86.8	80-120
Potassium	777	735	3.3	0-20	777	1740	933	105.0	80-120
Selenium	0.0	0.0 (a)	NC	0-20	0.0	68.5 (a)	74.7	91.7	80-120
Silver	0.0	0.0	NC	0-20	0.0	1.6	1.87	85.7	80-120
Sodium	913	803	3.5	0-20	913	1800	933	103.7	80-120
Strontium									
Thallium	0.0	0.0 (a)	NC	0-20	0.0	59.9 (a)	74.7	80.2	80-120
Tin									
Titanium									
Vanadium	4.6	4.6	0.0	0-20	4.6	21.4	18.7	90.0	80-120
Zinc	9.6	7.4 (a)	25.9 (c)	0-20	9.6	26.9 (a)	18.7	92.7	80-120

Associated samples MP24919: FA3118-1, FA3118-2, FA3118-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) High RPD due to possible sample non-homogeneity.
(c) RPD acceptable due to low duplicate and sample concentrations.
(d) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.
(e) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3118
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24919 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date: 04/05/13

Metal	FA3118-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	1990	2930	1030	90.8	3.4	20
Antimony	0.0	7.7 (a)	19.2	40.2N(b)	12.4	20
Arsenic	0.94	76.4	76.6	98.9	3.2	20
Barium	28.9	98.1	76.6	91.8	4.9	20
Beryllium	0.094	1.7	1.92	83.8	5.7	20
Cadmium	0.0	0.81 (a)	1.92	42.3N(b)	1.2	20
Calcium	143000	133000	958	-1043.7c	5.8	20
Chromium	2.5	9.2 (a)	7.66	87.4	6.3	20
Cobalt	0.87	16.7	19.2	82.6	2.4	20
Copper	1.1	9.8	9.58	90.8	4.0	20
Iron	1820	2520	996	70.2N(b)	7.3	20
Lead	4.0	19.5 (a)	19.2	80.9	0.5	20
Magnesium	1590	2030	958	65.8N(b)	5.7	20
Manganese	24.9	39.0	19.2	73.6N(b)	2.5	20
Molybdenum						
Nickel	1.9	17.6	19.2	81.9	2.8	20
Potassium	777	1670	958	95.0	4.1	20
Selenium	0.0	69.3 (a)	76.6	90.4	1.2	20
Silver	0.0	1.5	1.92	78.3N(b)	6.5	20
Sodium	913	1700	958	90.6	5.7	20
Strontium						
Thallium	0.0	60.1 (a)	76.6	78.4N(b)	0.3	20
Tin						
Titanium						
Vanadium	4.6	20.7	19.2	84.0	3.3	20
Zinc	9.6	26.1 (a)	19.2	86.1	3.0	20

Associated samples MP24919: FA3118-1, FA3118-2, FA3118-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.
(c) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA3118
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24919
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/05/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1340	1350	99.3	80-120
Antimony	24.6	25	98.4	80-120
Arsenic	97.0	100	97.0	80-120
Barium	101	100	101.0	80-120
Beryllium	2.5	2.5	100.0	80-120
Cadmium	2.5	2.5	100.0	80-120
Calcium	1270	1250	101.6	80-120
Chromium	10.4	10	104.0	80-120
Cobalt	25.2	25	100.8	80-120
Copper	13.0	12.5	104.0	80-120
Iron	1310	1300	100.8	80-120
Lead	23.2	25	92.8	80-120
Magnesium	1230	1250	98.4	80-120
Manganese	25.5	25	102.0	80-120
Molybdenum				
Nickel	25.6	25	102.4	80-120
Potassium	1270	1250	101.6	80-120
Selenium	95.6	100	95.6	80-120
Silver	2.3	2.5	92.0	80-120
Sodium	1250	1250	100.0	80-120
Strontium				
Thallium	95.3	100	95.3	80-120
Tin				
Titanium				
Vanadium	24.8	25	99.2	80-120
Zinc	25.2	25	100.8	80-120

Associated samples MP24919: FA3118-1, FA3118-2, FA3118-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA3118
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24919
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/05/13

Metal	FA3118-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	46800	48500	3.7	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	22.2	27.0	81.2 (a)	0-10
Barium	679	679	4.3	0-10
Beryllium	2.20	0.00	100.0(a)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	3360000	3730000	10.9*(b)	0-10
Chromium	59.6	0.00	100.0(a)	0-10
Cobalt	20.4	19.8	2.9	0-10
Copper	26.6	35.7	34.2 (a)	0-10
Iron	42900	46800	9.3	0-10
Lead	93.4	0.00	100.0(a)	0-10
Magnesium	37300	37100	12.7*(b)	0-10
Manganese	586	639	9.1	0-10
Molybdenum				
Nickel	44.2	49.4	11.8*(b)	0-10
Potassium	18300	18500	3.8	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	21500	20700	5.9	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	108	116	6.8	0-10
Zinc	226	278	23.1 (a)	0-10

Associated samples MP24919: FA3118-1, FA3118-2, FA3118-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: FA3118
Account: NATVALB - Nation View
Project: Holloman AFB; SD-08 Subsurface Soil Event

QC Batch ID: MP24919
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/05/13

Metal	Sample ml	Final ml	FA3118-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	46750	45815	48290	0.2	125	2500	99.0	80-120
Antimony	9.8	10	0	0	99.1	0.2	5	100	99.1	80-120
Arsenic	9.8	10	22.2	14.602	117.5	0.2	5	100	102.9	80-120
Barium	9.8	10	678.5	638.372	884.1	0.2	12.5	250	98.3	80-120
Beryllium	9.8	10	2.2	2.156	47.6	0.2	2.5	50	90.9	80-120
Cadmium	9.8	10	0	0	33.8	0.2	2.5	50	67.6*(a)	80-120
Calcium	9.8	10	3363000	3295740	3067000	0.2	250	5000	-4574.8*a	80-120
Chromium	9.8	10	59.6	58.408	107.8	0.2	2.5	50	98.8	80-120
Cobalt	9.8	10	20.4	19.992	63.8	0.2	2.5	50	87.6	80-120
Copper	9.8	10	26.6	26.068	120.8	0.2	5	100	94.7	80-120
Iron	9.8	10	42850	41993	44550	0.2	150	3000	85.2	80-120
Lead	9.8	10	93.4	91.532	139.2	0.2	2.5	50	95.3	80-120
Magnesium	9.8	10	37290	32242	35960	0.2	250	5000	74.4*(a)	80-120
Manganese	9.8	10	585.9	574.182	614.9	0.2	2.5	50	81.4	80-120
Molybdenum										
Nickel	9.8	10	44.2	43.316	129.3	0.2	5	100	86.0	80-120
Potassium	9.8	10	18260	17502.8	27680	0.2	500	10000	101.8	80-120
Selenium	9.8	10	0	0	110.2	0.2	5	100	110.2	80-120
Silver	9.8	10	0	0	44.3	0.2	2.5	50	88.6	80-120
Sodium	9.8	10	21460	19168.8	29200	0.2	500	10000	100.3	80-120
Strontium										
Thallium	9.8	10	0	0	93.5	0.2	5	100	93.5	80-120
Tin										
Titanium										
Vanadium	9.8	10	108.4	106.232	150.9	0.2	2.5	50	89.3	80-120
Zinc	9.8	10	226	221.48	516.4	0.2	12.5	250	118.0	80-120

Associated samples MP24919: FA3118-1, FA3118-2, FA3118-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

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 04/22/2013

GCAL Report 213040904

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB

CASE NARRATIVE

Client: NationView LLC **Report:** 213040904

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 505235, the MS/MSD exhibited recovery failures. The LCS/LCSD recoveries are acceptable.

METALS

In the SW-846 6010C Dissolved analysis for prep batch 504941, the MS/MSD recoveries are not applicable for Calcium because the sample concentration is greater than four times the spike concentration.

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
Technical Director
GCAL REPORT 213040904

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304090401	MW-08-02	Water	04/08/2013 11:30	04/09/2013 09:00
21304090402	MW-08-02-A	Water	04/08/2013 11:30	04/09/2013 09:00
21304090403	TRIP BLANK	Water	04/08/2013 00:00	04/09/2013 09:00

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304090401	**MW-08-02**	Water	04/08/2013 11:30	04/09/2013 09:00

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.031	0.020	0.0050	mg/L
7440-39-3	Barium	0.013	0.010	0.0025	mg/L
7440-70-2	Calcium	643	0.80	0.20	mg/L
7440-50-8	Copper	0.018J	0.020	0.0050	mg/L
7439-89-6	Iron	0.77	0.20	0.050	mg/L
7439-95-4	Magnesium	172	0.20	0.050	mg/L
7439-96-5	Manganese	1.19	0.015	0.0038	mg/L
7440-09-7	Potassium	3.57	0.50	0.13	mg/L
7440-62-2	Vanadium	0.050	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	152	1.00	0.25	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	5.37	5.00	0.116	ug/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3770	10.0	4.39	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304090402	**MW-08-02-A**	Water	04/08/2013 11:30	04/09/2013 09:00

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.033	0.020	0.0050	mg/L
7440-39-3	Barium	0.012	0.010	0.0025	mg/L
7440-70-2	Calcium	601	0.80	0.20	mg/L
7440-50-8	Copper	0.020	0.020	0.0050	mg/L
7439-89-6	Iron	0.71	0.20	0.050	mg/L
7439-95-4	Magnesium	161	0.20	0.050	mg/L
7439-96-5	Manganese	1.12	0.015	0.0038	mg/L
7440-09-7	Potassium	3.40	0.50	0.13	mg/L
7440-28-0	Thallium	0.0051J	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.047	0.020	0.0050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304090402	**MW-08-02-A**	Water	04/08/2013 11:30	04/09/2013 09:00

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	140	1.00	0.25	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00007J	0.00020	0.000068	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	5.26	5.00	0.116	ug/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3550	10.0	4.39	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304090401	**MW-08-02**	Water	04/08/2013 11:30	04/09/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 11:28	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**5.37**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304090401	**MW-08-02**	Water	04/08/2013 11:30	04/09/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 11:28	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.1	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	49.3	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	54.8	ug/L	110	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.9	ug/L	98	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/09/2013 13:25	504843	SW-846 7470A Dissolved	1	04/10/2013 12:01	BAM	504892

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/09/2013 13:25	504843	SW-846 7470A	1	04/10/2013 12:02	BAM	504892

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304090401	**MW-08-02**	Water	04/08/2013 11:30	04/09/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2013 17:00	504941	SW-846 3005 Dissolved	1	04/17/2013 20:33	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.031**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.013**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**643**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	**Copper**	**0.018J**	**0.020**	**0.0050**	**mg/L**
7439-89-6	**Iron**	**0.77**	**0.20**	**0.050**	**mg/L**
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**172**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**1.19**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**3.57**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.050**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2013 17:00	504941	SW-846 3005 Dissolved	1	04/18/2013 12:56	BAM	505520

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**152**	**1.00**	**0.25**	**mg/L**

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2013 17:15	TRF	505041

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3770**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/09/2013 16:28	DJH	504851

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.115U	0.500	0.115	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304090402	**MW-08-02-A**	Water	04/08/2013 11:30	04/09/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 12:58	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**5.26**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304090402	**MW-08-02-A**	Water	04/08/2013 11:30	04/09/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 12:58	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	55	ug/L	110	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.7	ug/L	99	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/09/2013 13:25	504843	SW-846 7470A Dissolved	1	04/10/2013 12:04	BAM	504892

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00007J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/09/2013 13:25	504843	SW-846 7470A	1	04/10/2013 12:06	BAM	504892

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304090402	**MW-08-02-A**	Water	04/08/2013 11:30	04/09/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2013 17:00	504941	SW-846 3005 Dissolved	1	04/17/2013 20:41	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.033**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.012**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**601**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	**Copper**	**0.020**	**0.020**	**0.0050**	**mg/L**
7439-89-6	**Iron**	**0.71**	**0.20**	**0.050**	**mg/L**
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**161**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**1.12**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**3.40**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	**Thallium**	**0.0051J**	**0.020**	**0.0050**	**mg/L**
7440-62-2	**Vanadium**	**0.047**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2013 17:00	504941	SW-846 3005 Dissolved	1	04/18/2013 13:03	BAM	505520

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**140**	**1.00**	**0.25**	**mg/L**

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2013 17:15	TRF	505041

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3550**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/09/2013 17:21	DJH	504851

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.115U	0.500	0.115	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304090403	**TRIP BLANK**	Water	04/08/2013 00:00	04/09/2013 09:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 13:20	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304090403	**TRIP BLANK**	Water	04/08/2013 00:00	04/09/2013 09:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 13:20	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.1	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	54.8	ug/L	110	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.2	ug/L	100	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch	505235	**Client ID**	MB505235			LCS505235			LCSD505235		
Prep Batch	N/A	**GCAL ID**	1181765			1181766			1181767		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	04/17/2013 11:06			04/17/2013 09:37			04/17/2013 09:59		
		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	0.193U		0.193	50.0	37.0	74	59 - 134	41.0	82	10	30
74-97-5	Bromochloromethane	0.127U		0.127	50.0	51.4	103	78 - 112	54.3	109	5	30
75-27-4	Bromodichloromethane	0.083U		0.083	50.0	50.0	100	76 - 116	52.7	105	5	30
75-25-2	Bromoform	0.215U		0.215	50.0	49.6	99	68 - 128	51.5	103	4	30
74-83-9	Bromomethane	0.427U		0.427	50.0	54.8	110	55 - 151	57.6	115	5	30
75-15-0	Carbon disulfide	0.190U		0.190	50.0	51.5	103	67 - 147	57.4	115	11	30
56-23-5	Carbon tetrachloride	0.248U		0.248	50.0	53.1	106	74 - 139	57.7	115	8	30
75-00-3	Chloroethane	0.235U		0.235	50.0	55.1	110	54 - 166	60.3	121	9	30
136777-61-2	m,p-Xylene	0.123U		0.123	100	91.7	92	83 - 121	98.7	99	7	30
67-66-3	Chloroform	0.155U		0.155	50.0	47.5	95	85 - 123	50.4	101	6	30
74-87-3	Chloromethane	0.144U		0.144	50.0	54.5	109	55 - 173	55.0	110	0.9	30
124-48-1	Dibromochloromethane	0.054U		0.054	50.0	49.7	99	74 - 116	52.2	104	5	30
74-95-3	Dibromomethane	0.211U		0.211	50.0	50.2	100	81 - 116	52.6	105	5	30
75-71-8	Dichlorodifluoromethane	0.145U		0.145	50.0	55.3	111	34 - 158	57.3	115	4	30
75-34-3	1,1-Dichloroethane	0.171U		0.171	50.0	49.6	99	82 - 127	53.0	106	7	30
107-06-2	1,2-Dichloroethane	0.116U		0.116	50.0	49.5	99	76 - 122	51.7	103	4	30
156-59-2	cis-1,2-Dichloroethene	0.103U		0.103	50.0	45.2	90	81 - 114	48.6	97	7	30
156-60-5	trans-1,2-Dichloroethene	0.077U		0.077	50.0	44.7	89	82 - 126	48.9	98	9	30
75-09-2	Methylene chloride	0.149U		0.149	50.0	46.0	92	69 - 125	49.4	99	7	30
78-87-5	1,2-Dichloropropane	0.150U		0.150	50.0	49.3	99	81 - 120	52.0	104	5	30
10061-01-5	cis-1,3-Dichloropropene	0.124U		0.124	50.0	45.8	92	83 - 119	48.6	97	6	30
10061-02-6	trans-1,3-Dichloropropene	0.128U		0.128	50.0	47.1	94	87 - 123	49.8	100	6	30
100-41-4	Ethylbenzene	0.109U		0.109	50.0	51.8	104	87 - 118	56.7	113	9	30
591-78-6	2-Hexanone	0.122U		0.122	50.0	45.5	91	58 - 125	47.9	96	5	30
98-82-8	Isopropylbenzene (Cumene)	0.130U		0.130	50.0	45.4	91	87 - 131	50.0	100	10	30
78-93-3	2-Butanone	0.142U		0.142	50.0	44.2	88	61 - 127	45.7	91	3	30
74-88-4	Methyl iodide	0.084U		0.084	50.0	45.0	90	72 - 125	53.5	107	17	30
108-10-1	4-Methyl-2-pentanone	0.120U		0.120	50.0	47.5	95	62 - 125	49.5	99	4	30
103-65-1	n-Propylbenzene	0.727U		0.727	50.0	44.3	89	86 - 125	49.8	100	12	30
100-42-5	Styrene	0.089U		0.089	50.0	46.4	93	78 - 118	49.4	99	6	30
127-18-4	Tetrachloroethene	0.193U		0.193	50.0	47.0	94	80 - 131	51.8	104	10	30
630-20-6	1,1,1,2-Tetrachloroethane	0.120U		0.120	50.0	49.6	99	81 - 119	52.5	105	6	30
79-34-5	1,1,2,2-Tetrachloroethane	0.109U		0.109	50.0	47.1	94	71 - 120	49.0	98	4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	505235	**Client ID**	MB505235			LCS505235			LCSD505235		
Prep Batch	N/A	**GCAL ID**	1181765			1181766			1181767		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	04/17/2013 11:06			04/17/2013 09:37			04/17/2013 09:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
120-82-1	1,2,4-Trichlorobenzene		0.105U	0.105	50.0	44.3	89	68 - 123	51.3	103	15	30
71-55-6	1,1,1-Trichloroethane		0.123U	0.123	50.0	51.3	103	79 - 133	55.3	111	8	30
79-00-5	1,1,2-Trichloroethane		0.159U	0.159	50.0	48.1	96	80 - 114	50.2	100	4	30
75-69-4	Trichlorofluoromethane		0.157U	0.157	50.0	52.6	105	66 - 156	55.4	111	5	30
96-18-4	1,2,3-Trichloropropane		0.065U	0.065	50.0	49.8	100	77 - 115	48.1	96	3	30
95-63-6	1,2,4-Trimethylbenzene		0.084U	0.084	50.0	45.0	90	82 - 120	50.1	100	11	30
108-67-8	1,3,5-Trimethylbenzene		0.066U	0.066	50.0	44.7	89	83 - 123	49.7	99	11	30
75-01-4	Vinyl chloride		0.127U	0.127	50.0	58.9	118	57 - 153	59.4	119	0.8	30
95-47-6	o-Xylene		0.055U	0.055	50.0	45.3	91	83 - 121	49.6	99	9	30
96-12-8	1,2-Dibromo-3-chloropropane		0.194U	0.194	50.0	50.7	101	61 - 118	53.5	107	5	30
106-93-4	1,2-Dibromoethane		0.102U	0.102	50.0	50.3	101	80 - 115	53.2	106	6	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.078U	0.078	50.0	48.2	96	75 - 116	51.1	102	6	30
540-59-0	1,2-Dichloroethene(Total)		0.180U	0.180	100	89.9	90	74 - 128	97.5	98	8	30
99-87-6	4-Isopropyltoluene		0.070U	0.070	50.0	44.1	88	83 - 125	50.3	101	13	30
1330-20-7	Xylene (total)		0.179U	0.179	150	137	91	74 - 127	148	99	8	30
110-57-6	trans-1,4-Dichloro-2-butene		0.264U	0.264	50.0	52.3	105	51 - 137	53.9	108	3	30
594-20-7	2,2-Dichloropropane		0.170U	0.170	50.0	49.4	99	77 - 138	54.5	109	10	30
76-13-1	Trichlorotrifluoroethane		0.158U	0.158	50.0	52.0	104	74 - 139	56.3	113	8	30
563-58-6	1,1-Dichloropropene		0.052U	0.052	50.0	45.1	90	87 - 127	49.6	99	10	30
142-28-9	1,3-Dichloropropane		0.059U	0.059	50.0	50.4	101	81 - 113	52.8	106	5	30
108-86-1	Bromobenzene		0.145U	0.145	50.0	46.7	93	83 - 115	51.0	102	9	30
95-49-8	2-Chlorotoluene		0.080U	0.080	50.0	45.1	90	81 - 121	49.5	99	9	30
106-43-4	4-Chlorotoluene		0.124U	0.124	50.0	46.0	92	84 - 120	50.3	101	9	30
98-06-6	tert-Butylbenzene		0.087U	0.087	50.0	44.9	90	83 - 126	50.5	101	12	30
135-98-8	sec-Butylbenzene		0.107U	0.107	50.0	44.8	90	86 - 127	51.1	102	13	30
541-73-1	1,3-Dichlorobenzene		0.138U	0.138	50.0	51.1	102	86 - 115	56.4	113	10	30
106-46-7	1,4-Dichlorobenzene		0.083U	0.083	50.0	49.1	98	87 - 113	53.4	107	8	30
104-51-8	n-Butylbenzene		0.123U	0.123	50.0	44.4	89	84 - 124	51.6	103	15	30
95-50-1	1,2-Dichlorobenzene		0.135U	0.135	50.0	45.9	92	85 - 115	49.5	99	8	30
87-68-3	Hexachlorobutadiene		0.265U	0.265	50.0	48.3	97	71 - 133	55.1	110	13	30
91-20-3	Naphthalene		0.176U	0.176	50.0	43.4	87	59 - 125	48.9	98	12	35
75-35-4	1,1-Dichloroethene		0.208U	0.208	50.0	50.0	100	75 - 133	55.9	112	11	20
71-43-2	Benzene		0.111U	0.111	50.0	51.5	103	83 - 124	55.3	111	7	20

GC/MS Volatiles Quality Control Summary

Analytical Batch 505235		**Client ID**	MB505235			LCS505235			LCSD505235		
Prep Batch N/A		**GCAL ID**	1181765			1181766			1181767		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	04/17/2013 11:06			04/17/2013 09:37			04/17/2013 09:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.161U	0.161	50.0	47.0	94	85 - 124	50.7	101	8	20
108-88-3	Toluene		0.122U	0.122	50.0	49.4	99	86 - 116	52.9	106	7	20
108-90-7	Chlorobenzene		0.083U	0.083	50.0	49.2	98	87 - 115	52.7	105	7	20
Surrogate												
460-00-4	4-Bromofluorobenzene		49.2	98	50	51.2	102	84 - 120	50.6	101		
1868-53-7	Dibromofluoromethane		48.8	98	50	50.6	101	87 - 116	50.2	100		
2037-26-5	Toluene d8		54.3	109	50	48.5	97	86 - 112	48.6	97		
17060-07-0	1,2-Dichloroethane-d4		48.6	97	50	49.2	98	76 - 127	49	98		

Analytical Batch 505235		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21304100601			21304100602			21304100603		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	04/17/2013 11:50			04/17/2013 13:42			04/17/2013 14:05		
		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		0.00	0.193	50.0	29.3	59	59 - 134	30.4	61	4	14
74-97-5	Bromochloromethane		0.00	0.127	50.0	50.9	102	78 - 112	50.0	100	2	10
75-27-4	Bromodichloromethane		0.00	0.083	50.0	50.0	100	76 - 116	49.1	98	2	10
75-25-2	Bromoform		0.00	0.215	50.0	51.0	102	68 - 128	51.4	103	0.8	11
76-13-1	Trichlorotrifluoroethane		0.00	0.158	50.0	52.4	105	74 - 139	50.1	100	4	13
74-83-9	Bromomethane		0.00	0.427	50.0	41.8	84	55 - 151	42.3	85	1	21
75-15-0	Carbon disulfide		0.00	0.190	50.0	51.2	102	67 - 147	49.1	98	4	12
56-23-5	Carbon tetrachloride		0.00	0.248	50.0	51.7	103	74 - 139	50.5	101	2	13
75-00-3	Chloroethane		0.00	0.235	50.0	62.5	125	54 - 166	60.0	120	4	20
136777-61-2	m,p-Xylene		0.00	0.123	100	91.1	91	83 - 121	87.3	87	4	10
67-66-3	Chloroform		0.00	0.155	50.0	48.3	97	85 - 123	46.7	93	3	10
74-87-3	Chloromethane		0.00	0.144	50.0	56.0	112	55 - 173	55.2	110	1	22
124-48-1	Dibromochloromethane		0.00	0.054	50.0	49.0	98	74 - 116	50.7	101	3	11
74-95-3	Dibromomethane		0.00	0.211	50.0	51.0	102	81 - 116	50.4	101	1	10
75-71-8	Dichlorodifluoromethane		0.00	0.145	50.0	54.0	108	34 - 158	54.0	108	0	22
75-34-3	1,1-Dichloroethane		0.00	0.171	50.0	49.5	99	82 - 127	48.3	97	2	10

GC/MS Volatiles Quality Control Summary

Analytical Batch 505235	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD	
Prep Batch N/A	**GCAL ID**	21304100601	21304100602	21304100603	
	Sample Type	SAMPLE	MS	MSD	
	Analytical Date	04/17/2013 11:50	04/17/2013 13:42	04/17/2013 14:05	
	Matrix	Water	Water	Water	

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
107-06-2	1,2-Dichloroethane	0.00	0.116	50.0	50.1	100	76 - 122	49.7	99	0.8	11
75-09-2	Methylene chloride	0.00	0.149	50.0	46.5	93	69 - 125	45.1	90	3	11
78-87-5	1,2-Dichloropropane	0.00	0.150	50.0	49.1	98	81 - 120	48.2	96	2	11
10061-01-5	cis-1,3-Dichloropropene	0.00	0.124	50.0	43.7	87	83 - 119	43.0	86	2	10
10061-02-6	trans-1,3-Dichloropropene	0.00	0.128	50.0	47.9	96	87 - 123	47.3	95	1	10
100-41-4	Ethylbenzene	0.00	0.109	50.0	51.8	104	87 - 118	50.0	100	4	10
591-78-6	2-Hexanone	0.00	0.122	50.0	51.0	102	58 - 125	56.9	114	11	14
98-82-8	Isopropylbenzene (Cumene)	0.00	0.130	50.0	45.0	90	87 - 131	43.4	87	4	10
78-93-3	2-Butanone	0.00	0.142	50.0	42.7	85	61 - 127	45.6	91	7	13
74-88-4	Methyl iodide	0.00	0.084	50.0	41.8	84	72 - 125	44.0	88	5	11
108-10-1	4-Methyl-2-pentanone	0.00	0.120	50.0	58.5	117	62 - 125	60.9	122	4	13
103-65-1	n-Propylbenzene	0.00	0.727	50.0	43.7	87	86 - 125	42.7	**85***	2	10
100-42-5	Styrene	0.00	0.089	50.0	44.9	90	78 - 118	42.4	85	6	11
95-50-1	1,2-Dichlorobenzene	0.00	0.135	50.0	45.3	91	85 - 115	43.9	88	3	9
87-68-3	Hexachlorobutadiene	0.00	0.265	50.0	42.9	86	71 - 133	47.2	94	10	12
127-18-4	Tetrachloroethene	0.00	0.193	50.0	46.7	93	80 - 131	45.4	91	3	12
630-20-6	1,1,1,2-Tetrachloroethane	0.00	0.120	50.0	48.6	97	81 - 119	47.8	96	2	10
91-20-3	Naphthalene	0.00	0.176	50.0	44.2	88	59 - 125	48.2	96	9	15
79-34-5	1,1,2,2-Tetrachloroethane	0.00	0.109	50.0	50.1	100	71 - 120	51.6	103	3	11
120-82-1	1,2,4-Trichlorobenzene	0.00	0.105	50.0	41.4	83	68 - 123	42.8	86	3	11
71-55-6	1,1,1-Trichloroethane	0.00	0.123	50.0	52.1	104	79 - 133	50.1	100	4	11
79-00-5	1,1,2-Trichloroethane	0.00	0.159	50.0	49.1	98	80 - 114	49.2	98	0.2	11
156-60-5	trans-1,2-Dichloroethene	0.00	0.077	50.0	44.6	89	82 - 126	44.6	89	0	10
156-59-2	cis-1,2-Dichloroethene	0.00	0.103	50.0	45.0	90	81 - 114	43.9	88	2	10
75-69-4	Trichlorofluoromethane	0.00	0.157	50.0	53.1	106	66 - 156	50.3	101	5	15
96-18-4	1,2,3-Trichloropropane	0.00	0.065	50.0	49.7	99	77 - 115	53.8	108	8	12
563-58-6	1,1-Dichloropropene	0.00	0.052	50.0	45.8	92	87 - 127	44.4	89	3	10
95-63-6	1,2,4-Trimethylbenzene	0.00	0.084	50.0	44.2	88	82 - 120	42.7	85	3	10
142-28-9	1,3-Dichloropropane	0.00	0.059	50.0	50.8	102	81 - 113	51.8	104	2	11
108-67-8	1,3,5-Trimethylbenzene	0.00	0.066	50.0	43.7	87	83 - 123	42.6	85	3	10
75-01-4	Vinyl chloride	0.00	0.127	50.0	62.1	124	57 - 153	57.9	116	7	22
108-86-1	Bromobenzene	0.00	0.145	50.0	46.3	93	83 - 115	46.1	92	0.4	10
95-47-6	o-Xylene	0.00	0.055	50.0	45.7	91	83 - 121	44.4	89	3	10

GC/MS Volatiles Quality Control Summary

Analytical Batch	505235	**Client ID**	MW-08-06		MW-08-06-MS				MW-08-06-MSD		
Prep Batch	N/A	**GCAL ID**	21304100601		21304100602				21304100603		
		Sample Type	SAMPLE		MS				MSD		
		Analytical Date	04/17/2013 11:50		04/17/2013 13:42				04/17/2013 14:05		
		Matrix	Water		Water				Water		
SW-846 8260B		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**		**Result**	**% R**	**RPD**	**RPD Limit**
95-49-8	2-Chlorotoluene	0.00	0.080	50.0	44.0	88	81 - 121		43.1	86	2	10
96-12-8	1,2-Dibromo-3-chloropropane	0.00	0.194	50.0	57.4	115	61 - 118		61.4	**123***	7	15
106-43-4	4-Chlorotoluene	0.00	0.124	50.0	45.1	90	84 - 120		44.0	88	2	10
98-06-6	tert-Butylbenzene	0.00	0.087	50.0	44.9	90	83 - 126		43.7	87	3	10
106-93-4	1,2-Dibromoethane	0.00	0.102	50.0	51.5	103	80 - 115		51.6	103	0.2	10
135-98-8	sec-Butylbenzene	0.00	0.107	50.0	44.6	89	86 - 127		43.1	86	3	10
541-73-1	1,3-Dichlorobenzene	0.00	0.138	50.0	50.3	101	86 - 115		48.6	97	3	9
1634-04-4	tert-Butyl methyl ether (MTBE)	0.00	0.078	50.0	49.6	99	75 - 116		50.6	101	2	10
99-87-6	4-Isopropyltoluene	0.00	0.070	50.0	44.0	88	83 - 125		42.7	85	3	9
540-59-0	1,2-Dichloroethene(Total)	0.00	0.180	100	89.7	90	74 - 128		88.4	88	1	30
1330-20-7	Xylene (total)	0.00	0.179	150	137	91	74 - 127		132	88	4	30
106-46-7	1,4-Dichlorobenzene	0.00	0.083	50.0	47.7	95	87 - 113		46.4	93	3	10
110-57-6	trans-1,4-Dichloro-2-butene	0.00	0.264	50.0	57.1	114	51 - 137		58.3	117	2	24
104-51-8	n-Butylbenzene	0.00	0.123	50.0	44.0	88	84 - 124		42.9	86	3	10
594-20-7	2,2-Dichloropropane	0.00	0.170	50.0	51.3	103	77 - 138		48.8	98	5	12
75-35-4	1,1-Dichloroethene	0.00	0.208	50.0	51.2	102	75 - 133		50.1	100	2	13
71-43-2	Benzene	0.00	0.111	50.0	52.1	104	83 - 124		50.1	100	4	11
79-01-6	Trichloroethene	0.00	0.161	50.0	47.0	94	85 - 124		45.6	91	3	10
108-88-3	Toluene	0.00	0.122	50.0	48.5	97	86 - 116		47.7	95	2	10
108-90-7	Chlorobenzene	0.00	0.083	50.0	48.7	97	87 - 115		47.6	95	2	9
Surrogate												
460-00-4	4-Bromofluorobenzene			50	51.6	103	84 - 120		51.7	103		
1868-53-7	Dibromofluoromethane			50	50.9	102	87 - 116		50.3	101		
2037-26-5	Toluene d8			50	47.5	95	86 - 112		48.6	97		
17060-07-0	1,2-Dichloroethane-d4			50	49.8	100	76 - 127		49.8	100		

Inorganics Quality Control Summary

Analytical Batch	504892	**Client ID**	MB504843		LCS504843		
Prep Batch	504843	**GCAL ID**	1179603		1179604		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	04/09/2013 13:25		04/09/2013 13:25		
		Analytical Date	04/10/2013 11:39		04/10/2013 11:41		
		Matrix	Water		Water		
SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000068U	0.000068	0.0050	0.00530	106	88 - 111

Analytical Batch	504892	**Client ID**	MRD-1B-21		1176416MS			1176416MSD			
Prep Batch	504843	**GCAL ID**	21303301001		1179605			1179606			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	04/09/2013 13:25		04/09/2013 13:25			04/09/2013 13:25			
		Analytical Date	04/10/2013 11:43		04/10/2013 11:44			04/10/2013 11:46			
		Matrix	Water		Water			Water			
SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.0	0.000068	0.0050	0.00556	111	80 - 120	0.00539	108	3.0	20

Inorganics Quality Control Summary

Analytical Batch	504892	**Client ID**	MB504843			LCS504843		
Prep Batch	504843	**GCAL ID**	1179603			1179604		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	04/09/2013 13:25			04/09/2013 13:25		
		Analytical Date	04/10/2013 11:39			04/10/2013 11:41		
		Matrix	Water			Water		
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.000068U	0.000068	0.0050	0.00530	106	88 - 111

Analytical Batch	504892	**Client ID**	MRD-1B-21			1176416MS			1176416MSD			
Prep Batch	504843	**GCAL ID**	21303301001			1179605			1179606			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	04/09/2013 13:25			04/09/2013 13:25			04/09/2013 13:25			
		Analytical Date	04/10/2013 11:43			04/10/2013 11:44			04/10/2013 11:46			
		Matrix	Water			Water			Water			
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.0	0.000068	0.0050	0.00556	111	80 - 120	0.00539	108	3.0	10

Inorganics Quality Control Summary

Analytical Batch	505368	**Client ID**	MB504941	LCS504941
Prep Batch	504941	**GCAL ID**	1180244	1180245
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	04/10/2013 17:00	04/10/2013 17:00
		Analytical Date	04/17/2013 19:02	04/17/2013 19:09
		Matrix	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.050U	0.050	5.00	5.40	108	80 - 120
7440-36-0	Antimony	0.015U	0.015	0.50	0.51	101	80 - 120
7440-38-2	Arsenic	0.0050U	0.0050	0.50	0.53	106	80 - 120
7440-39-3	Barium	0.0025U	0.0025	0.50	0.52	103	80 - 120
7440-41-7	Beryllium	0.0010U	0.0010	0.50	0.52	105	80 - 120
7440-43-9	Cadmium	0.0013U	0.0013	0.50	0.52	104	80 - 120
7440-70-2	Calcium	0.20U	0.20	5.00	5.28	106	80 - 120
7440-47-3	Chromium	0.0025U	0.0025	0.50	0.52	103	80 - 120
7440-48-4	Cobalt	0.0025U	0.0025	0.50	0.52	105	80 - 120
7440-50-8	Copper	0.0050U	0.0050	0.50	0.52	104	80 - 120
7439-89-6	Iron	0.050U	0.050	5.00	5.34	107	80 - 120
7439-92-1	Lead	0.0038U	0.0038	0.50	0.52	104	80 - 120
7439-95-4	Magnesium	0.050U	0.050	5.00	5.30	106	80 - 120
7439-96-5	Manganese	0.0038U	0.0038	0.50	0.52	104	80 - 120
7440-02-0	Nickel	0.010U	0.010	0.50	0.52	105	80 - 120
7440-09-7	Potassium	0.13U	0.13	10.0	10.6	106	80 - 120
7782-49-2	Selenium	0.010U	0.010	0.50	0.54	107	80 - 120
7440-22-4	Silver	0.0025U	0.0025	0.50	0.52	105	80 - 120
7440-23-5	Sodium	0.25U	0.25	20.0	22.0	110	80 - 120
7440-28-0	Thallium	0.0050U	0.0050	0.50	0.52	104	80 - 120
7440-62-2	Vanadium	0.0050U	0.0050	0.50	0.51	102	80 - 120
7440-66-6	Zinc	0.0050U	0.0050	0.50	0.52	103	80 - 120

Inorganics Quality Control Summary

Analytical Batch	505368	**Client ID**	83 MW-01	1179624MS	1179624MSD
Prep Batch	504941	**GCAL ID**	21304091101	1180246	1180247
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	04/10/2013 17:00	04/10/2013 17:00	04/10/2013 17:00
		Analytical Date	04/17/2013 19:17	04/17/2013 19:24	04/17/2013 19:32
		Matrix	Water	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.050	5.00	5.49	110	80 - 120	5.81	116	6	20
7440-36-0	Antimony	0.0	0.015	0.50	0.52	105	80 - 120	0.54	108	3	20
7440-38-2	Arsenic	0.0	0.0050	0.50	0.56	112	80 - 120	0.57	115	3	20
7440-39-3	Barium	0.0032	0.0025	0.50	0.53	106	80 - 120	0.55	110	4	20
7440-41-7	Beryllium	0.0	0.0010	0.50	0.54	109	80 - 120	0.56	113	4	20
7440-43-9	Cadmium	0.0	0.0013	0.50	0.52	103	80 - 120	0.54	108	4	20
7440-70-2	Calcium	63.6	0.20	5.00	65.9	**45***	80 - 120	70.6	**140***	7	20
7440-47-3	Chromium	0.0	0.0025	0.50	0.52	105	80 - 120	0.54	109	4	20
7440-48-4	Cobalt	0.0	0.0025	0.50	0.52	104	80 - 120	0.53	106	2	20
7440-50-8	Copper	0.0	0.0050	0.50	0.53	106	80 - 120	0.55	110	4	20
7439-89-6	Iron	7.62	0.050	5.00	12.3	94	80 - 120	13.1	109	6	20
7439-92-1	Lead	0.0	0.0038	0.50	0.53	106	80 - 120	0.54	109	3	20
7439-95-4	Magnesium	2.33	0.050	5.00	7.49	103	80 - 120	8.01	114	7	20
7439-96-5	Manganese	0.30	0.0038	0.50	0.81	103	80 - 120	0.85	111	5	20
7440-02-0	Nickel	0.0	0.010	0.50	0.50	101	80 - 120	0.52	105	4	20
7440-09-7	Potassium	0.88	0.13	10.0	11.7	108	80 - 120	12.2	113	4	20
7782-49-2	Selenium	0.0	0.010	0.50	0.56	113	80 - 120	0.57	115	2	20
7440-22-4	Silver	0.0	0.0025	0.50	0.53	107	80 - 120	0.55	111	4	20
7440-23-5	Sodium	21.1	0.25	20.0	41.3	101	80 - 120	44.8	119	8	20
7440-28-0	Thallium	0.0089	0.0050	0.50	0.53	104	80 - 120	0.56	110	5	20
7440-62-2	Vanadium	0.0	0.0050	0.50	0.53	106	80 - 120	0.55	110	4	20
7440-66-6	Zinc	0.0	0.0050	0.50	0.52	104	80 - 120	0.54	108	4	20

General Chemistry Quality Control Summary

Analytical Batch 505041	**Client ID**	MB505041			LCS505041		
Prep Batch N/A	**GCAL ID**	1180743			1180744		
	Sample Type	Method Blank			LCS		
	Analytical Date	04/11/2013 17:15			04/11/2013 17:15		
	Matrix	Water			Water		
SM 2540 C - 1997		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	972	97.2	90 - 110

Analytical Batch 505041	**Client ID**	U43010B		1179683DUP		
Prep Batch N/A	**GCAL ID**	21304091701		1180745		
	Sample Type	SAMPLE		DUP		
	Analytical Date	04/11/2013 17:15		04/11/2013 17:15		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2850	4.39	2880	1	5

General Chemistry Quality Control Summary

Analytical Batch 504851	**Client ID**	MB504851			LCS504851		
Prep Batch N/A	**GCAL ID**	1179643			1179644		
	Sample Type	Method Blank			LCS		
	Analytical Date	04/09/2013 15:53			04/09/2013 16:10		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.115U	0.115	2.50	2.66	106	80 - 120

Analytical Batch 504851	**Client ID**	MW-08-02			1179529MS			1179529MSD			
Prep Batch N/A	**GCAL ID**	21304090401			1179657			1179658			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	04/09/2013 16:28			04/09/2013 16:46			04/09/2013 17:03			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.000	0.115	2.50	2.70	108	75 - 125	2.72	109	0.89	25

NATIONVIEW/4771/2130 40904/4/18/13

Page: 1 of 1

NV Project No: 10-0004

COC Number(1): 04082013-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q6)

Client Name: USACE Omaha District

Collected by: Tony Lucero / Randy Pochel/Dustin McNeil

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)	Nitrate (300/9056)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)									Quality Assurance Samples (6)			
MW-08-02		04/08/2013	1130	-	N	1	WG	6	X	X	X	X	X							1
MW-08-02-A		04/08/2013	1130	-	FD	1	WG	6	X	X	X	X	X							1
Trip Blank				-	TB	1	WQ	3	X											1
				-																
				-																
				-																
				-																
				-																
				-																

COMMENTS: Dissolved TAL Metals filtered in the field

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Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	4/8/13	1400	1.		
2. Fed Ex			2. Cjaucier	4/9/13	900
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 7944 6696 3190

Analytical Lab: GCAL Delivery Location: Baton Rogue, LA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

213040904

SAMPLE DELIVERY GROUP	213040904
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile Number 204817	**Received By** Saucier, Charlotte
Line Item(s) 3 - SD-08	**Receive Date(s)** 04/09/13

CHECKLIST

Were all samples received using proper thermal preservation?	☑ Yes	☐ No	☐ NA
When used, were all custody seals intact?	☑ Yes	☐ No	☐ NA
Were all samples received in proper containers?	☑ Yes	☐ No	☐ NA
Were all samples received using proper chemical preservation?	☑ Yes	☐ No	☐ NA
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ NA
Were all containers received in good condition?	☑ Yes	☐ No	☐ NA
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ NA
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ NA
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ NA
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑ Yes	☐ No	☐ NA

COOLERS

Airbill	Temp(oC)
7994 6696 3190	2.3

DISCREPANCIES

None

LABORATORY PRESERVATIONS

None

NOTES

Revision 1.4

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 04/24/2013

GCAL Report 213041006

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project Holloman AFB

CASE NARRATIVE

Client: NationView LLC **Report:** 213041006

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 505235, the MS/MSD exhibited recovery failures. The LCS/LCSD recoveries are acceptable.

METALS

In the SW-846 6010C analysis for prep batch 504939, the MS and/or MSD recovery is outside the control limits for Arsenic, Copper, Potassium, Selenium and Silver. 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 110% for Arsenic, 109% for Copper, 114% for Potassium, 110% for Selenium and 107% for Silver. The MS/MSD recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. The MS/MSD recoveries are not applicable for Sodium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010C analysis, several samples had to be diluted in order to bracket the concentration within the calibration range of the instrument.

In the SW-846 7470A analysis for prep batch 504937, the MS/MSD recoveries are outside the control limits for Mercury. The LCS recovery is above the upper control limit for Mercury. This analyte was not detected in the associated samples.

CONVENTIONALS

In the EPA 300.0 analysis, all samples had to be diluted in order to bracket the concentration within the calibration range of the instrument or to eliminate a chemical or physical interference. The dilution is reflected in elevated reporting limits.

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.

_____

Authorized Signature
GCAL REPORT 213041006

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100601	MW-08-06	Water	04/08/2013 14:40	04/10/2013 09:00
21304100602	MW-08-06-MS	Water	04/08/2013 14:40	04/10/2013 09:00
21304100603	MW-08-06-MSD	Water	04/08/2013 14:40	04/10/2013 09:00
21304100604	MW-08-07	Water	04/08/2013 15:10	04/10/2013 09:00
21304100605	MW-08-03	Water	04/08/2013 16:15	04/10/2013 09:00
21304100606	TRIP BLANK	Water	04/08/2013 10:00	04/10/2013 09:00
21304100607	MW-08-04	Water	04/08/2013 13:45	04/10/2013 09:00
21304100608	MW-08-01	Water	04/08/2013 14:00	04/10/2013 09:00
21304100609	MW-08-01-A	Water	04/08/2013 14:00	04/10/2013 09:00
21304100610	MW-08-08	Water	04/08/2013 15:55	04/10/2013 09:00
21304100611	TRIP BLANK	Water	04/08/2013 10:00	04/10/2013 09:00
21304100612	S10-MW02	Water	04/09/2013 08:35	04/10/2013 09:00
21304100613	SWMU183-MW03	Water	04/09/2013 09:50	04/10/2013 09:00
21304100614	S10-MW06	Water	04/09/2013 10:00	04/10/2013 09:00
21304100615	MW-08-05	Water	04/09/2013 10:45	04/10/2013 09:00
21304100616	S10-MW01	Water	04/09/2013 11:15	04/10/2013 09:00
21304100617	TRIP BLANK	Water	04/09/2013 08:00	04/10/2013 09:00

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100601	**MW-08-06**	Water	04/08/2013 14:40	04/10/2013 09:00

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	23800	10.0	4.39	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.023	0.020	0.0050	mg/L
7440-39-3	Barium	0.0061J	0.010	0.0025	mg/L
7440-70-2	Calcium	556	0.80	0.20	mg/L
7439-95-4	Magnesium	876	0.20	0.050	mg/L
7440-09-7	Potassium	26.3	0.50	0.13	mg/L
7440-28-0	Thallium	0.0065J	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.10	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4950	10.0	2.50	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	18.4	10.0	2.30	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100602	**MW-08-06-MS**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0043	0.00020	0.000068	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.56	0.20	0.050	mg/L
7440-36-0	Antimony	0.59	0.060	0.015	mg/L
7440-38-2	Arsenic	0.67	0.020	0.0050	mg/L
7440-39-3	Barium	0.56	0.010	0.0025	mg/L
7440-41-7	Beryllium	0.55	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.53	0.0050	0.0013	mg/L
7440-70-2	Calcium	550	0.80	0.20	mg/L
7440-47-3	Chromium	0.53	0.010	0.0025	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100602	**MW-08-06-MS**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	Cobalt	0.53	0.010	0.0025	mg/L
7440-50-8	Copper	0.62	0.020	0.0050	mg/L
7439-89-6	Iron	5.31	0.20	0.050	mg/L
7439-92-1	Lead	0.52	0.015	0.0038	mg/L
7439-95-4	Magnesium	860	0.20	0.050	mg/L
7439-96-5	Manganese	0.54	0.015	0.0038	mg/L
7440-02-0	Nickel	0.53	0.040	0.010	mg/L
7440-09-7	Potassium	38.8	0.50	0.13	mg/L
7782-49-2	Selenium	0.64	0.040	0.010	mg/L
7440-22-4	Silver	0.62	0.010	0.0025	mg/L
7440-28-0	Thallium	0.53	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.68	0.020	0.0050	mg/L
7440-66-6	Zinc	0.57	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4730	10.0	2.50	mg/L

SW-846 7470A Water

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0045	0.00020	0.000068	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	75.2	10.0	2.30	mg/L

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	48.6	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	52.1	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.1	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	49.1	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	49.5	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	51.2	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	45.8	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	49.7	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	41.4	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	44.2	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	57.4	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	51.5	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	45.3	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	50.1	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	89.7	10.0	0.180	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100602	**MW-08-06-MS**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
78-87-5	1,2-Dichloropropane	49.1	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	43.7	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	50.3	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	50.8	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	47.7	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	51.3	5.00	0.170	ug/L
78-93-3	2-Butanone	42.7	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	44.0	5.00	0.080	ug/L
591-78-6	2-Hexanone	51.0	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	45.1	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	44.0	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	58.5	5.00	0.120	ug/L
67-64-1	Acetone	29.3	5.00	0.193	ug/L
71-43-2	Benzene	52.1	5.00	0.111	ug/L
108-86-1	Bromobenzene	46.3	5.00	0.145	ug/L
74-97-5	Bromochloromethane	50.9	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	50.0	5.00	0.083	ug/L
75-25-2	Bromoform	51.0	5.00	0.215	ug/L
74-83-9	Bromomethane	41.8	5.00	0.427	ug/L
75-15-0	Carbon disulfide	51.2	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	51.7	5.00	0.248	ug/L
108-90-7	Chlorobenzene	48.7	5.00	0.083	ug/L
75-00-3	Chloroethane	62.5	5.00	0.235	ug/L
67-66-3	Chloroform	48.3	5.00	0.155	ug/L
74-87-3	Chloromethane	56.0	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	49.0	5.00	0.054	ug/L
74-95-3	Dibromomethane	51.0	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	54.0	5.00	0.145	ug/L
100-41-4	Ethylbenzene	51.8	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	42.9	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	45.0	5.00	0.130	ug/L
74-88-4	Methyl iodide	41.8	5.00	0.084	ug/L
75-09-2	Methylene chloride	46.5	5.00	0.149	ug/L
91-20-3	Naphthalene	44.2	5.00	0.176	ug/L
100-42-5	Styrene	44.9	5.00	0.089	ug/L
127-18-4	Tetrachloroethene	46.7	5.00	0.193	ug/L
108-88-3	Toluene	48.5	5.00	0.122	ug/L
79-01-6	Trichloroethene	47.0	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	53.1	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	52.4	5.00	0.158	ug/L
75-01-4	Vinyl chloride	62.1	5.00	0.127	ug/L
1330-20-7	Xylene (total)	137	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	45.0	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	43.7	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	91.1	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	44.0	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	43.7	5.00	0.727	ug/L
95-47-6	o-Xylene	45.7	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	44.6	5.00	0.107	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100602	**MW-08-06-MS**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
1634-04-4	tert-Butyl methyl ether (MTBE)	49.6	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	44.9	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	44.6	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	47.9	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	57.1	5.00	0.264	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100603	**MW-08-06-MSD**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.45	0.20	0.050	mg/L
7440-36-0	Antimony	0.59	0.060	0.015	mg/L
7440-38-2	Arsenic	0.65	0.020	0.0050	mg/L
7440-39-3	Barium	0.55	0.010	0.0025	mg/L
7440-41-7	Beryllium	0.54	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.52	0.0050	0.0013	mg/L
7440-70-2	Calcium	543	0.80	0.20	mg/L
7440-47-3	Chromium	0.53	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.53	0.010	0.0025	mg/L
7440-50-8	Copper	0.61	0.020	0.0050	mg/L
7439-89-6	Iron	5.28	0.20	0.050	mg/L
7439-92-1	Lead	0.52	0.015	0.0038	mg/L
7439-95-4	Magnesium	850	0.20	0.050	mg/L
7439-96-5	Manganese	0.53	0.015	0.0038	mg/L
7440-02-0	Nickel	0.53	0.040	0.010	mg/L
7440-09-7	Potassium	38.7	0.50	0.13	mg/L
7782-49-2	Selenium	0.65	0.040	0.010	mg/L
7440-22-4	Silver	0.61	0.010	0.0025	mg/L
7440-28-0	Thallium	0.53	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.67	0.020	0.0050	mg/L
7440-66-6	Zinc	0.57	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	4680	10.0	2.50	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0041	0.00020	0.000068	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100603	**MW-08-06-MSD**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 7470A Water

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0047	0.00020	0.000068	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	75.8	10.0	2.30	mg/L

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	47.8	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	50.1	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	51.6	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	49.2	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	48.3	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	50.1	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	44.4	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	53.8	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	42.8	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	42.7	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	61.4	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	51.6	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	43.9	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	49.7	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	88.4	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	48.2	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	42.6	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	48.6	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	51.8	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	46.4	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	48.8	5.00	0.170	ug/L
78-93-3	2-Butanone	45.6	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	43.1	5.00	0.080	ug/L
591-78-6	2-Hexanone	56.9	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	44.0	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	42.7	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	60.9	5.00	0.120	ug/L
67-64-1	Acetone	30.4	5.00	0.193	ug/L
71-43-2	Benzene	50.1	5.00	0.111	ug/L
108-86-1	Bromobenzene	46.1	5.00	0.145	ug/L
74-97-5	Bromochloromethane	50.0	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	49.1	5.00	0.083	ug/L
75-25-2	Bromoform	51.4	5.00	0.215	ug/L
74-83-9	Bromomethane	42.3	5.00	0.427	ug/L
75-15-0	Carbon disulfide	49.1	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	50.5	5.00	0.248	ug/L
108-90-7	Chlorobenzene	47.6	5.00	0.083	ug/L
75-00-3	Chloroethane	60.0	5.00	0.235	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100603	**MW-08-06-MSD**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
67-66-3	Chloroform	46.7	5.00	0.155	ug/L
74-87-3	Chloromethane	55.2	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	50.7	5.00	0.054	ug/L
74-95-3	Dibromomethane	50.4	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	54.0	5.00	0.145	ug/L
100-41-4	Ethylbenzene	50.0	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	47.2	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	43.4	5.00	0.130	ug/L
74-88-4	Methyl iodide	44.0	5.00	0.084	ug/L
75-09-2	Methylene chloride	45.1	5.00	0.149	ug/L
91-20-3	Naphthalene	48.2	5.00	0.176	ug/L
100-42-5	Styrene	42.4	5.00	0.089	ug/L
127-18-4	Tetrachloroethene	45.4	5.00	0.193	ug/L
108-88-3	Toluene	47.7	5.00	0.122	ug/L
79-01-6	Trichloroethene	45.6	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	50.3	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	50.1	5.00	0.158	ug/L
75-01-4	Vinyl chloride	57.9	5.00	0.127	ug/L
1330-20-7	Xylene (total)	132	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	43.9	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	43.0	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	87.3	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	42.9	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	42.7	5.00	0.727	ug/L
95-47-6	o-Xylene	44.4	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	43.1	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	50.6	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	43.7	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	44.6	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	47.3	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	58.3	5.00	0.264	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100604	**MW-08-07**	Water	04/08/2013 15:10	04/10/2013 09:00

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.056	0.020	0.0050	mg/L
7440-39-3	Barium	0.010	0.010	0.0025	mg/L
7440-70-2	Calcium	663	0.80	0.20	mg/L
7440-48-4	Cobalt	0.0032J	0.010	0.0025	mg/L
7440-50-8	Copper	0.018J	0.020	0.0050	mg/L
7439-95-4	Magnesium	199	0.20	0.050	mg/L
7439-96-5	Manganese	1.50	0.015	0.0038	mg/L
7440-09-7	Potassium	6.37	0.50	0.13	mg/L
7440-28-0	Thallium	0.0063J	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.055	0.020	0.0050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100604	**MW-08-07**	Water	04/08/2013 15:10	04/10/2013 09:00

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	569	1.00	0.25	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	4530	10.0	4.39	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.638J	2.50	0.575	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	89.2	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	1.34J	5.00	0.150	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100605	**MW-08-03**	Water	04/08/2013 16:15	04/10/2013 09:00

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	25500	10.0	4.39	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	729	8.00	2.00	mg/L
7440-50-8	Copper	0.26	0.20	0.050	mg/L
7439-95-4	Magnesium	1790	2.00	0.50	mg/L
7440-09-7	Potassium	35.5	5.00	1.25	mg/L
7440-62-2	Vanadium	0.68	0.20	0.050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	8390	100	25.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100605	**MW-08-03**	Water	04/08/2013 16:15	04/10/2013 09:00

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	20.0J	25.0	5.75	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-66-3	Chloroform	1.04J	5.00	0.155	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100607	**MW-08-04**	Water	04/08/2013 13:45	04/10/2013 09:00

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5210	10.0	4.39	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.013J	0.020	0.0050	mg/L
7440-39-3	Barium	0.014	0.010	0.0025	mg/L
7440-70-2	Calcium	549	0.80	0.20	mg/L
7440-50-8	Copper	0.019J	0.020	0.0050	mg/L
7439-95-4	Magnesium	300	0.20	0.050	mg/L
7440-09-7	Potassium	18.1	0.50	0.13	mg/L
7440-62-2	Vanadium	0.091	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	766	10.0	2.50	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	5.82	2.50	0.575	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100608	**MW-08-01**	Water	04/08/2013 14:00	04/10/2013 09:00

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.012J	0.020	0.0050	mg/L
7440-39-3	Barium	0.013	0.010	0.0025	mg/L
7440-70-2	Calcium	523	0.80	0.20	mg/L
7440-50-8	Copper	0.0051J	0.020	0.0050	mg/L
7439-89-6	Iron	7.14	0.20	0.050	mg/L
7439-95-4	Magnesium	634	0.20	0.050	mg/L
7439-96-5	Manganese	2.39	0.015	0.0038	mg/L
7440-09-7	Potassium	6.37	0.50	0.13	mg/L
7440-62-2	Vanadium	0.047	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1880	10.0	2.50	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	10000	10.0	4.39	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	27.2	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	5.38	5.00	0.150	ug/L
67-64-1	Acetone	3.17J	5.00	0.193	ug/L
71-43-2	Benzene	0.506J	5.00	0.111	ug/L
135-98-8	sec-Butylbenzene	3.57J	5.00	0.107	ug/L
98-06-6	tert-Butylbenzene	3.84J	5.00	0.087	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100609	**MW-08-01-A**	Water	04/08/2013 14:00	04/10/2013 09:00

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	24400	10.0	4.39	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.016J	0.020	0.0050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100609	**MW-08-01-A**	Water	04/08/2013 14:00	04/10/2013 09:00

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.013	0.010	0.0025	mg/L
7440-70-2	Calcium	524	0.80	0.20	mg/L
7440-50-8	Copper	0.0085J	0.020	0.0050	mg/L
7439-89-6	Iron	7.62	0.20	0.050	mg/L
7439-95-4	Magnesium	625	0.20	0.050	mg/L
7439-96-5	Manganese	2.38	0.015	0.0038	mg/L
7440-09-7	Potassium	6.22	0.50	0.13	mg/L
7440-62-2	Vanadium	0.047	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1830	10.0	2.50	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	27.9	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	5.79	5.00	0.150	ug/L
67-64-1	Acetone	6.52	5.00	0.193	ug/L
71-43-2	Benzene	0.409J	5.00	0.111	ug/L
135-98-8	sec-Butylbenzene	3.56J	5.00	0.107	ug/L
98-06-6	tert-Butylbenzene	3.77J	5.00	0.087	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100610	**MW-08-08**	Water	04/08/2013 15:55	04/10/2013 09:00

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	26900	10.0	4.39	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	841	8.00	2.00	mg/L
7440-50-8	Copper	0.24	0.20	0.050	mg/L
7439-95-4	Magnesium	1620	2.00	0.50	mg/L
7440-09-7	Potassium	44.9	5.00	1.25	mg/L
7440-62-2	Vanadium	0.63	0.20	0.050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100610	**MW-08-08**	Water	04/08/2013 15:55	04/10/2013 09:00

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	7330	100	25.0	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	38.0	25.0	5.75	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100612	**S10-MW02**	Water	04/09/2013 08:35	04/10/2013 09:00

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.016J	0.020	0.0050	mg/L
7440-39-3	Barium	0.0079J	0.010	0.0025	mg/L
7440-70-2	Calcium	567	0.80	0.20	mg/L
7440-50-8	Copper	0.016J	0.020	0.0050	mg/L
7439-95-4	Magnesium	250	0.20	0.050	mg/L
7440-09-7	Potassium	17.5	0.50	0.13	mg/L
7440-62-2	Vanadium	0.090	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	102	1.00	0.25	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3590	10.0	4.39	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	13.0	2.50	0.575	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100613	**SWMU183-MW03**	Water	04/09/2013 09:50	04/10/2013 09:00

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	6120	10.0	4.39	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.016J	0.020	0.0050	mg/L
7440-39-3	Barium	0.0089J	0.010	0.0025	mg/L
7440-70-2	Calcium	507	0.80	0.20	mg/L
7440-50-8	Copper	0.018J	0.020	0.0050	mg/L
7439-95-4	Magnesium	198	0.20	0.050	mg/L
7439-96-5	Manganese	0.70	0.015	0.0038	mg/L
7440-09-7	Potassium	6.94	0.50	0.13	mg/L
7440-28-0	Thallium	0.0059J	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.070	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1190	10.0	2.50	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	36.1	5.00	1.15	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100614	**S10-MW06**	Water	04/09/2013 10:00	04/10/2013 09:00

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	14900	10.0	4.39	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.028	0.020	0.0050	mg/L
7440-39-3	Barium	0.0073J	0.010	0.0025	mg/L
7440-70-2	Calcium	472	0.80	0.20	mg/L
7440-50-8	Copper	0.011J	0.020	0.0050	mg/L
7439-95-4	Magnesium	639	0.20	0.050	mg/L
7439-96-5	Manganese	0.059	0.015	0.0038	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100614	**S10-MW06**	Water	04/09/2013 10:00	04/10/2013 09:00

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-09-7	Potassium	37.9	0.50	0.13	mg/L
7440-28-0	Thallium	0.0050J	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.11	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	3600	10.0	2.50	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	49.3	10.0	2.30	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100615	**MW-08-05**	Water	04/09/2013 10:45	04/10/2013 09:00

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.011J	0.020	0.0050	mg/L
7440-39-3	Barium	0.021	0.010	0.0025	mg/L
7440-70-2	Calcium	688	0.80	0.20	mg/L
7440-50-8	Copper	0.013J	0.020	0.0050	mg/L
7439-95-4	Magnesium	114	0.20	0.050	mg/L
7439-96-5	Manganese	0.13	0.015	0.0038	mg/L
7440-09-7	Potassium	10.5	0.50	0.13	mg/L
7440-28-0	Thallium	0.0071J	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.054	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	142	1.00	0.25	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2890	10.0	4.39	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	2.34J	5.00	0.116	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100616	**S10-MW01**	Water	04/09/2013 11:15	04/10/2013 09:00

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9600	10.0	4.39	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.031	0.020	0.0050	mg/L
7440-39-3	Barium	0.0074J	0.010	0.0025	mg/L
7440-70-2	Calcium	579	0.80	0.20	mg/L
7440-50-8	Copper	0.013J	0.020	0.0050	mg/L
7439-95-4	Magnesium	534	0.20	0.050	mg/L
7439-96-5	Manganese	0.35	0.015	0.0038	mg/L
7440-09-7	Potassium	20.8	0.50	0.13	mg/L
7440-28-0	Thallium	0.0079J	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.098	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2620	10.0	2.50	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	3.79J	10.0	2.30	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	16.0	5.00	0.116	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100601	**MW-08-06**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 11:50	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100601	**MW-08-06**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 11:50	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.3	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	54.2	ug/L	108	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.2	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:29	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:03	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100601	**MW-08-06**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/17/2013 21:04	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.023**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.0061J**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**556**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	Copper	0.0050U	0.020	0.0050	mg/L
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**876**	**0.20**	**0.050**	**mg/L**
7439-96-5	Manganese	0.0038U	0.015	0.0038	mg/L
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**26.3**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	**Thallium**	**0.0065J**	**0.020**	**0.0050**	**mg/L**
7440-62-2	**Vanadium**	**0.10**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	10	04/18/2013 13:33	BAM	505520

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4950**	**10.0**	**2.50**	**mg/L**

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2013 17:15	TRF	505041

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**23800**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	04/10/2013 13:20	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**18.4**	**10.0**	**2.30**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100602	**MW-08-06-MS**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 13:42	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	48.6	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	52.1	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.1	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	49.1	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	49.5	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	51.2	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	45.8	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	49.7	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	41.4	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	44.2	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	57.4	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	51.5	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	45.3	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	50.1	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	89.7	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	49.1	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	43.7	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	50.3	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	50.8	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	47.7	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	51.3	5.00	0.170	ug/L
78-93-3	2-Butanone	42.7	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	44.0	5.00	0.080	ug/L
591-78-6	2-Hexanone	51.0	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	45.1	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	44.0	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	58.5	5.00	0.120	ug/L
67-64-1	Acetone	29.3	5.00	0.193	ug/L
71-43-2	Benzene	52.1	5.00	0.111	ug/L
108-86-1	Bromobenzene	46.3	5.00	0.145	ug/L
74-97-5	Bromochloromethane	50.9	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	50.0	5.00	0.083	ug/L
75-25-2	Bromoform	51.0	5.00	0.215	ug/L
74-83-9	Bromomethane	41.8	5.00	0.427	ug/L
75-15-0	Carbon disulfide	51.2	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	51.7	5.00	0.248	ug/L
108-90-7	Chlorobenzene	48.7	5.00	0.083	ug/L
75-00-3	Chloroethane	62.5	5.00	0.235	ug/L
67-66-3	Chloroform	48.3	5.00	0.155	ug/L
74-87-3	Chloromethane	56.0	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	49.0	5.00	0.054	ug/L
74-95-3	Dibromomethane	51.0	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	54.0	5.00	0.145	ug/L
100-41-4	Ethylbenzene	51.8	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	42.9	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	45.0	5.00	0.130	ug/L
74-88-4	Methyl iodide	41.8	5.00	0.084	ug/L
75-09-2	Methylene chloride	46.5	5.00	0.149	ug/L
91-20-3	Naphthalene	44.2	5.00	0.176	ug/L
100-42-5	Styrene	44.9	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100602	**MW-08-06-MS**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 13:42	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**46.7**	**5.00**	**0.193**	**ug/L**
108-88-3	**Toluene**	**48.5**	**5.00**	**0.122**	**ug/L**
79-01-6	**Trichloroethene**	**47.0**	**5.00**	**0.161**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**53.1**	**5.00**	**0.157**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**52.4**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**62.1**	**5.00**	**0.127**	**ug/L**
1330-20-7	**Xylene (total)**	**137**	**15.0**	**0.179**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**45.0**	**5.00**	**0.103**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**43.7**	**5.00**	**0.124**	**ug/L**
136777-61-2	**m,p-Xylene**	**91.1**	**10.0**	**0.123**	**ug/L**
104-51-8	**n-Butylbenzene**	**44.0**	**5.00**	**0.123**	**ug/L**
103-65-1	**n-Propylbenzene**	**43.7**	**5.00**	**0.727**	**ug/L**
95-47-6	**o-Xylene**	**45.7**	**5.00**	**0.055**	**ug/L**
135-98-8	**sec-Butylbenzene**	**44.6**	**5.00**	**0.107**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**49.6**	**5.00**	**0.078**	**ug/L**
98-06-6	**tert-Butylbenzene**	**44.9**	**5.00**	**0.087**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**44.6**	**5.00**	**0.077**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**47.9**	**5.00**	**0.128**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**57.1**	**5.00**	**0.264**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.6	ug/L	103	84 - 120
1868-53-7	Dibromofluoromethane	50	50.9	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	47.5	ug/L	95	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:31	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0043**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:05	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0045**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100602	**MW-08-06-MS**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	10	04/16/2013 23:28	BAM	505521

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4730**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/17/2013 21:11	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**5.56**	**0.20**	**0.050**	**mg/L**
7440-36-0	**Antimony**	**0.59**	**0.060**	**0.015**	**mg/L**
7440-38-2	**Arsenic**	**0.67**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.56**	**0.010**	**0.0025**	**mg/L**
7440-41-7	**Beryllium**	**0.55**	**0.0040**	**0.0010**	**mg/L**
7440-43-9	**Cadmium**	**0.53**	**0.0050**	**0.0013**	**mg/L**
7440-70-2	**Calcium**	**550**	**0.80**	**0.20**	**mg/L**
7440-47-3	**Chromium**	**0.53**	**0.010**	**0.0025**	**mg/L**
7440-48-4	**Cobalt**	**0.53**	**0.010**	**0.0025**	**mg/L**
7440-50-8	**Copper**	**0.62**	**0.020**	**0.0050**	**mg/L**
7439-89-6	**Iron**	**5.31**	**0.20**	**0.050**	**mg/L**
7439-92-1	**Lead**	**0.52**	**0.015**	**0.0038**	**mg/L**
7439-95-4	**Magnesium**	**860**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**0.54**	**0.015**	**0.0038**	**mg/L**
7440-02-0	**Nickel**	**0.53**	**0.040**	**0.010**	**mg/L**
7440-09-7	**Potassium**	**38.8**	**0.50**	**0.13**	**mg/L**
7782-49-2	**Selenium**	**0.64**	**0.040**	**0.010**	**mg/L**
7440-22-4	**Silver**	**0.62**	**0.010**	**0.0025**	**mg/L**
7440-28-0	**Thallium**	**0.53**	**0.020**	**0.0050**	**mg/L**
7440-62-2	**Vanadium**	**0.68**	**0.020**	**0.0050**	**mg/L**
7440-66-6	**Zinc**	**0.57**	**0.020**	**0.0050**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	04/10/2013 13:38	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**75.2**	**10.0**	**2.30**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100603	**MW-08-06-MSD**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 14:05	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	47.8	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	50.1	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	51.6	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	49.2	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	48.3	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	50.1	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	44.4	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	53.8	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	42.8	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	42.7	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	61.4	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	51.6	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	43.9	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	49.7	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	88.4	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	48.2	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	42.6	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	48.6	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	51.8	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	46.4	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	48.8	5.00	0.170	ug/L
78-93-3	2-Butanone	45.6	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	43.1	5.00	0.080	ug/L
591-78-6	2-Hexanone	56.9	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	44.0	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	42.7	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	60.9	5.00	0.120	ug/L
67-64-1	Acetone	30.4	5.00	0.193	ug/L
71-43-2	Benzene	50.1	5.00	0.111	ug/L
108-86-1	Bromobenzene	46.1	5.00	0.145	ug/L
74-97-5	Bromochloromethane	50.0	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	49.1	5.00	0.083	ug/L
75-25-2	Bromoform	51.4	5.00	0.215	ug/L
74-83-9	Bromomethane	42.3	5.00	0.427	ug/L
75-15-0	Carbon disulfide	49.1	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	50.5	5.00	0.248	ug/L
108-90-7	Chlorobenzene	47.6	5.00	0.083	ug/L
75-00-3	Chloroethane	60.0	5.00	0.235	ug/L
67-66-3	Chloroform	46.7	5.00	0.155	ug/L
74-87-3	Chloromethane	55.2	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	50.7	5.00	0.054	ug/L
74-95-3	Dibromomethane	50.4	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	54.0	5.00	0.145	ug/L
100-41-4	Ethylbenzene	50.0	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	47.2	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	43.4	5.00	0.130	ug/L
74-88-4	Methyl iodide	44.0	5.00	0.084	ug/L
75-09-2	Methylene chloride	45.1	5.00	0.149	ug/L
91-20-3	Naphthalene	48.2	5.00	0.176	ug/L
100-42-5	Styrene	42.4	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100603	**MW-08-06-MSD**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 14:05	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**45.4**	**5.00**	**0.193**	**ug/L**
108-88-3	**Toluene**	**47.7**	**5.00**	**0.122**	**ug/L**
79-01-6	**Trichloroethene**	**45.6**	**5.00**	**0.161**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**50.3**	**5.00**	**0.157**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**50.1**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**57.9**	**5.00**	**0.127**	**ug/L**
1330-20-7	**Xylene (total)**	**132**	**15.0**	**0.179**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**43.9**	**5.00**	**0.103**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**43.0**	**5.00**	**0.124**	**ug/L**
136777-61-2	**m,p-Xylene**	**87.3**	**10.0**	**0.123**	**ug/L**
104-51-8	**n-Butylbenzene**	**42.9**	**5.00**	**0.123**	**ug/L**
103-65-1	**n-Propylbenzene**	**42.7**	**5.00**	**0.727**	**ug/L**
95-47-6	**o-Xylene**	**44.4**	**5.00**	**0.055**	**ug/L**
135-98-8	**sec-Butylbenzene**	**43.1**	**5.00**	**0.107**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**50.6**	**5.00**	**0.078**	**ug/L**
98-06-6	**tert-Butylbenzene**	**43.7**	**5.00**	**0.087**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**44.6**	**5.00**	**0.077**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**47.3**	**5.00**	**0.128**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**58.3**	**5.00**	**0.264**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.7	ug/L	103	84 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	48.6	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:33	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0041**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:07	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0047**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100603	**MW-08-06-MSD**	Water	04/08/2013 14:40	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	10	04/16/2013 23:36	BAM	505521

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4680**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/17/2013 21:18	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**5.45**	**0.20**	**0.050**	**mg/L**
7440-36-0	**Antimony**	**0.59**	**0.060**	**0.015**	**mg/L**
7440-38-2	**Arsenic**	**0.65**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.55**	**0.010**	**0.0025**	**mg/L**
7440-41-7	**Beryllium**	**0.54**	**0.0040**	**0.0010**	**mg/L**
7440-43-9	**Cadmium**	**0.52**	**0.0050**	**0.0013**	**mg/L**
7440-70-2	**Calcium**	**543**	**0.80**	**0.20**	**mg/L**
7440-47-3	**Chromium**	**0.53**	**0.010**	**0.0025**	**mg/L**
7440-48-4	**Cobalt**	**0.53**	**0.010**	**0.0025**	**mg/L**
7440-50-8	**Copper**	**0.61**	**0.020**	**0.0050**	**mg/L**
7439-89-6	**Iron**	**5.28**	**0.20**	**0.050**	**mg/L**
7439-92-1	**Lead**	**0.52**	**0.015**	**0.0038**	**mg/L**
7439-95-4	**Magnesium**	**850**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**0.53**	**0.015**	**0.0038**	**mg/L**
7440-02-0	**Nickel**	**0.53**	**0.040**	**0.010**	**mg/L**
7440-09-7	**Potassium**	**38.7**	**0.50**	**0.13**	**mg/L**
7782-49-2	**Selenium**	**0.65**	**0.040**	**0.010**	**mg/L**
7440-22-4	**Silver**	**0.61**	**0.010**	**0.0025**	**mg/L**
7440-28-0	**Thallium**	**0.53**	**0.020**	**0.0050**	**mg/L**
7440-62-2	**Vanadium**	**0.67**	**0.020**	**0.0050**	**mg/L**
7440-66-6	**Zinc**	**0.57**	**0.020**	**0.0050**	**mg/L**

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	04/10/2013 13:55	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**75.8**	**10.0**	**2.30**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100604	**MW-08-07**	Water	04/08/2013 15:10	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 12:12	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**89.2**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**1.34J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100604	**MW-08-07**	Water	04/08/2013 15:10	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 12:12	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.1	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	48.2	ug/L	96	87 - 116
2037-26-5	Toluene d8	50	53.7	ug/L	107	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	47.2	ug/L	94	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:35	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:10	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100604	**MW-08-07**	Water	04/08/2013 15:10	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/17/2013 22:09	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.056**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.010**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**663**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	**Cobalt**	**0.0032J**	**0.010**	**0.0025**	**mg/L**
7440-50-8	**Copper**	**0.018J**	**0.020**	**0.0050**	**mg/L**
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**199**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**1.50**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**6.37**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	**Thallium**	**0.0063J**	**0.020**	**0.0050**	**mg/L**
7440-62-2	**Vanadium**	**0.055**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/18/2013 13:10	BAM	505520

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**569**	**1.00**	**0.25**	**mg/L**

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2013 17:15	TRF	505041

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**4530**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	04/10/2013 14:13	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.638J**	**2.50**	**0.575**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100605	**MW-08-03**	Water	04/08/2013 16:15	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 12:34	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	**Chloroform**	**1.04J**	**5.00**	**0.155**	**ug/L**
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100605	**MW-08-03**	Water	04/08/2013 16:15	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 12:34	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.5	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	54.1	ug/L	108	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.6	ug/L	101	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:36	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:12	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100605	**MW-08-03**	Water	04/08/2013 16:15	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	10	04/17/2013 00:23	BAM	505521

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**729**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.26**	**0.20**	**0.050**	**mg/L**
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**1790**	**2.00**	**0.50**	**mg/L**
7439-96-5	Manganese	0.038U	0.15	0.038	mg/L
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**35.5**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.68**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	100	04/22/2013 16:14	BAM	505807

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**8390**	**100**	**25.0**	**mg/L**

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2013 17:15	TRF	505041

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**25500**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	04/10/2013 14:48	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**20.0J**	**25.0**	**5.75**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100606	**TRIP BLANK**	Water	04/08/2013 10:00	04/10/2013 09:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 14:49	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100606	**TRIP BLANK**	Water	04/08/2013 10:00	04/10/2013 09:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 14:49	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	54.9	ug/L	110	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100607	**MW-08-04**	Water	04/08/2013 13:45	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 15:12	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100607	**MW-08-04**	Water	04/08/2013 13:45	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 15:12	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.5	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	54.5	ug/L	109	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.3	ug/L	99	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:38	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:14	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100607	**MW-08-04**	Water	04/08/2013 13:45	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	10	04/17/2013 00:30	BAM	505521

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**766**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/17/2013 22:24	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.013J**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.014**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**549**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	**Copper**	**0.019J**	**0.020**	**0.0050**	**mg/L**
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**300**	**0.20**	**0.050**	**mg/L**
7439-96-5	Manganese	0.0038U	0.015	0.0038	mg/L
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**18.1**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.091**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2013 17:15	TRF	505041

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5210**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	04/10/2013 12:27	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**5.82**	**2.50**	**0.575**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100608	**MW-08-01**	Water	04/08/2013 14:00	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 15:34	JCK	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**27.2**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**5.38**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**3.17J**	**5.00**	**0.193**	**ug/L**
71-43-2	**Benzene**	**0.506J**	**5.00**	**0.111**	**ug/L**
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100608	**MW-08-01**	Water	04/08/2013 14:00	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 15:34	JCK	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	**sec-Butylbenzene**	**3.57J**	**5.00**	**0.107**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	**tert-Butylbenzene**	**3.84J**	**5.00**	**0.087**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	46.7	ug/L	93	87 - 116
2037-26-5	Toluene d8	50	51.6	ug/L	103	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	47.2	ug/L	94	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:40	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:15	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100608	**MW-08-01**	Water	04/08/2013 14:00	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	10	04/17/2013 00:38	BAM	505521

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1880**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/17/2013 22:31	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.012J**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.013**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**523**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	**Copper**	**0.0051J**	**0.020**	**0.0050**	**mg/L**
7439-89-6	**Iron**	**7.14**	**0.20**	**0.050**	**mg/L**
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**634**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**2.39**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**6.37**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.047**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2013 17:15	TRF	505041

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**10000**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	04/10/2013 13:03	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.15U	5.00	1.15	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100609	**MW-08-01-A**	Water	04/08/2013 14:00	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 15:57	JCK	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**27.9**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**5.79**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**6.52**	**5.00**	**0.193**	**ug/L**
71-43-2	**Benzene**	**0.409J**	**5.00**	**0.111**	**ug/L**
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100609	**MW-08-01-A**	Water	04/08/2013 14:00	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 15:57	JCK	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	**sec-Butylbenzene**	**3.56J**	**5.00**	**0.107**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	**tert-Butylbenzene**	**3.77J**	**5.00**	**0.087**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	46.6	ug/L	93	87 - 116
2037-26-5	Toluene d8	50	52.3	ug/L	105	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	46.7	ug/L	93	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:45	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:21	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100609	**MW-08-01-A**	Water	04/08/2013 14:00	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	10	04/17/2013 01:01	BAM	505521

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1830**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/17/2013 22:38	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.016J**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.013**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**524**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	**Copper**	**0.0085J**	**0.020**	**0.0050**	**mg/L**
7439-89-6	**Iron**	**7.62**	**0.20**	**0.050**	**mg/L**
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**625**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**2.38**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**6.22**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.047**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/12/2013 16:45	TRF	505117

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**24400**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	04/10/2013 12:45	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.15U	5.00	1.15	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100610	**MW-08-08**	Water	04/08/2013 15:55	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 16:41	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100610	**MW-08-08**	Water	04/08/2013 15:55	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 16:41	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	53.7	ug/L	107	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:47	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:22	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100610	**MW-08-08**	Water	04/08/2013 15:55	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	10	04/17/2013 01:09	BAM	505521

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**841**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.24**	**0.20**	**0.050**	**mg/L**
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**1620**	**2.00**	**0.50**	**mg/L**
7439-96-5	Manganese	0.038U	0.15	0.038	mg/L
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**44.9**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.63**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	100	04/22/2013 16:21	BAM	505807

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**7330**	**100**	**25.0**	**mg/L**

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/12/2013 16:45	TRF	505117

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**26900**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	04/10/2013 14:31	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**38.0**	**25.0**	**5.75**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100611	**TRIP BLANK**	Water	04/08/2013 10:00	04/10/2013 09:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 17:06	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100611	**TRIP BLANK**	Water	04/08/2013 10:00	04/10/2013 09:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 17:06	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	54.7	ug/L	109	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49	ug/L	98	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100612	**S10-MW02**	Water	04/09/2013 08:35	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 17:28	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100612	**S10-MW02**	Water	04/09/2013 08:35	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 17:28	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.7	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	54.8	ug/L	110	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.5	ug/L	97	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:48	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:24	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100612	**S10-MW02**	Water	04/09/2013 08:35	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/17/2013 23:07	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-38-2	**Arsenic**	**0.016J**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.0079J**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**567**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	**Copper**	**0.016J**	**0.020**	**0.0050**	**mg/L**
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**250**	**0.20**	**0.050**	**mg/L**
7439-96-5	Manganese	0.0038U	0.015	0.0038	mg/L
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**17.5**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.090**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/18/2013 13:18	BAM	505520

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-23-5	**Sodium**	**102**	**1.00**	**0.25**	**mg/L**

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/12/2013 16:45	TRF	505117

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3590**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	04/10/2013 16:16	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**13.0**	**2.50**	**0.575**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100613	**SWMU183-MW03**	Water	04/09/2013 09:50	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 18:13	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100613	**SWMU183-MW03**	Water	04/09/2013 09:50	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 18:13	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	54.2	ug/L	108	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:50	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:26	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100613	**SWMU183-MW03**	Water	04/09/2013 09:50	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	10	04/17/2013 01:23	BAM	505521

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1190**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/17/2013 23:14	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-38-2	**Arsenic**	**0.016J**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.0089J**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**507**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	**Copper**	**0.018J**	**0.020**	**0.0050**	**mg/L**
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**198**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**0.70**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**6.94**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	**Thallium**	**0.0059J**	**0.020**	**0.0050**	**mg/L**
7440-62-2	**Vanadium**	**0.070**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/18/2013 15:32	BAM	505520

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/12/2013 16:45	TRF	505117

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**6120**	**10.0**	**4.39**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100613	**SWMU183-MW03**	Water	04/09/2013 09:50	04/10/2013 09:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	04/10/2013 16:34	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**36.1**	**5.00**	**1.15**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100614	**S10-MW06**	Water	04/09/2013 10:00	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 18:35	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100614	**S10-MW06**	Water	04/09/2013 10:00	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 18:35	LBH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	54.5	ug/L	109	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:52	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:28	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100614	**S10-MW06**	Water	04/09/2013 10:00	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	10	04/17/2013 01:31	BAM	505521

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**3600**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/17/2013 23:22	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-38-2	**Arsenic**	**0.028**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.0073J**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**472**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	**Copper**	**0.011J**	**0.020**	**0.0050**	**mg/L**
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**639**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**0.059**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**37.9**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	**Thallium**	**0.0050J**	**0.020**	**0.0050**	**mg/L**
7440-62-2	**Vanadium**	**0.11**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/18/2013 15:39	BAM	505520

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/12/2013 16:45	TRF	505117

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**14900**	**10.0**	**4.39**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100614	**S10-MW06**	Water	04/09/2013 10:00	04/10/2013 09:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	04/10/2013 16:52	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**49.3**	**10.0**	**2.30**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100615	**MW-08-05**	Water	04/09/2013 10:45	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 18:57	CLH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**2.34J**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100615	**MW-08-05**	Water	04/09/2013 10:45	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 18:57	CLH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.1	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	54.4	ug/L	109	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.9	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:54	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:30	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100615	**MW-08-05**	Water	04/09/2013 10:45	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/17/2013 23:29	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-38-2	**Arsenic**	**0.011J**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.021**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**688**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	**Copper**	**0.013J**	**0.020**	**0.0050**	**mg/L**
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**114**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**0.13**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**10.5**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	**Thallium**	**0.0071J**	**0.020**	**0.0050**	**mg/L**
7440-62-2	**Vanadium**	**0.054**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/18/2013 13:26	BAM	505520

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-23-5	**Sodium**	**142**	**1.00**	**0.25**	**mg/L**

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/12/2013 16:45	TRF	505117

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2890**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	04/10/2013 17:09	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.575U	2.50	0.575	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100616	**S10-MW01**	Water	04/09/2013 11:15	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 19:21	CLH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**16.0**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100616	**S10-MW01**	Water	04/09/2013 11:15	04/10/2013 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 19:21	CLH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	54	ug/L	108	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.2	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504937	SW-846 7470A Dissolved	1	04/12/2013 11:55	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 13:25	504936	SW-846 7470A	1	04/12/2013 10:31	CLB2	505065

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100616	**S10-MW01**	Water	04/09/2013 11:15	04/10/2013 09:00

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	10	04/17/2013 01:47	BAM	505521

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2620**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/17/2013 23:37	BAM	505368

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-38-2	**Arsenic**	**0.031**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.0074J**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**579**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	**Copper**	**0.013J**	**0.020**	**0.0050**	**mg/L**
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**534**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**0.35**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**20.8**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	**Thallium**	**0.0079J**	**0.020**	**0.0050**	**mg/L**
7440-62-2	**Vanadium**	**0.098**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2013 12:15	504939	SW-846 3005 Dissolved	1	04/18/2013 15:47	BAM	505520

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/12/2013 16:45	TRF	505117

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**9600**	**10.0**	**4.39**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100616	**S10-MW01**	Water	04/09/2013 11:15	04/10/2013 09:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	04/10/2013 17:27	AEL	504913

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**3.79J**	**10.0**	**2.30**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100617	**TRIP BLANK**	Water	04/09/2013 08:00	04/10/2013 09:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 19:44	CLH	505235

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21304100617	**TRIP BLANK**	Water	04/09/2013 08:00	04/10/2013 09:00

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/17/2013 19:44	CLH	505235

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	54.8	ug/L	110	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49	ug/L	98	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch	505235	**Client ID**	MB505235			LCS505235			LCSD505235		
Prep Batch	N/A	**GCAL ID**	1181765			1181766			1181767		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	04/17/2013 11:06			04/17/2013 09:37			04/17/2013 09:59		
		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	0.193U		0.193	50.0	37.0	74	59 - 134	41.0	82	10	30
74-97-5	Bromochloromethane	0.127U		0.127	50.0	51.4	103	78 - 112	54.3	109	5	30
75-27-4	Bromodichloromethane	0.083U		0.083	50.0	50.0	100	76 - 116	52.7	105	5	30
75-25-2	Bromoform	0.215U		0.215	50.0	49.6	99	68 - 128	51.5	103	4	30
74-83-9	Bromomethane	0.427U		0.427	50.0	54.8	110	55 - 151	57.6	115	5	30
75-15-0	Carbon disulfide	0.190U		0.190	50.0	51.5	103	67 - 147	57.4	115	11	30
56-23-5	Carbon tetrachloride	0.248U		0.248	50.0	53.1	106	74 - 139	57.7	115	8	30
75-00-3	Chloroethane	0.235U		0.235	50.0	55.1	110	54 - 166	60.3	121	9	30
136777-61-2	m,p-Xylene	0.123U		0.123	100	91.7	92	83 - 121	98.7	99	7	30
67-66-3	Chloroform	0.155U		0.155	50.0	47.5	95	85 - 123	50.4	101	6	30
74-87-3	Chloromethane	0.144U		0.144	50.0	54.5	109	55 - 173	55.0	110	0.9	30
124-48-1	Dibromochloromethane	0.054U		0.054	50.0	49.7	99	74 - 116	52.2	104	5	30
74-95-3	Dibromomethane	0.211U		0.211	50.0	50.2	100	81 - 116	52.6	105	5	30
75-71-8	Dichlorodifluoromethane	0.145U		0.145	50.0	55.3	111	34 - 158	57.3	115	4	30
75-34-3	1,1-Dichloroethane	0.171U		0.171	50.0	49.6	99	82 - 127	53.0	106	7	30
107-06-2	1,2-Dichloroethane	0.116U		0.116	50.0	49.5	99	76 - 122	51.7	103	4	30
156-59-2	cis-1,2-Dichloroethene	0.103U		0.103	50.0	45.2	90	81 - 114	48.6	97	7	30
156-60-5	trans-1,2-Dichloroethene	0.077U		0.077	50.0	44.7	89	82 - 126	48.9	98	9	30
75-09-2	Methylene chloride	0.149U		0.149	50.0	46.0	92	69 - 125	49.4	99	7	30
78-87-5	1,2-Dichloropropane	0.150U		0.150	50.0	49.3	99	81 - 120	52.0	104	5	30
10061-01-5	cis-1,3-Dichloropropene	0.124U		0.124	50.0	45.8	92	83 - 119	48.6	97	6	30
10061-02-6	trans-1,3-Dichloropropene	0.128U		0.128	50.0	47.1	94	87 - 123	49.8	100	6	30
100-41-4	Ethylbenzene	0.109U		0.109	50.0	51.8	104	87 - 118	56.7	113	9	30
591-78-6	2-Hexanone	0.122U		0.122	50.0	45.5	91	58 - 125	47.9	96	5	30
98-82-8	Isopropylbenzene (Cumene)	0.130U		0.130	50.0	45.4	91	87 - 131	50.0	100	10	30
78-93-3	2-Butanone	0.142U		0.142	50.0	44.2	88	61 - 127	45.7	91	3	30
74-88-4	Methyl iodide	0.084U		0.084	50.0	45.0	90	72 - 125	53.5	107	17	30
108-10-1	4-Methyl-2-pentanone	0.120U		0.120	50.0	47.5	95	62 - 125	49.5	99	4	30
103-65-1	n-Propylbenzene	0.727U		0.727	50.0	44.3	89	86 - 125	49.8	100	12	30
100-42-5	Styrene	0.089U		0.089	50.0	46.4	93	78 - 118	49.4	99	6	30
127-18-4	Tetrachloroethene	0.193U		0.193	50.0	47.0	94	80 - 131	51.8	104	10	30
630-20-6	1,1,1,2-Tetrachloroethane	0.120U		0.120	50.0	49.6	99	81 - 119	52.5	105	6	30
79-34-5	1,1,2,2-Tetrachloroethane	0.109U		0.109	50.0	47.1	94	71 - 120	49.0	98	4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 505235	**Client ID**	MB505235	LCS505235	LCSD505235	
Prep Batch N/A	**GCAL ID**	1181765	1181766	1181767	
	Sample Type	Method Blank	LCS	LCSD	
	Analytical Date	04/17/2013 11:06	04/17/2013 09:37	04/17/2013 09:59	
	Matrix	Water	Water	Water	

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
120-82-1	1,2,4-Trichlorobenzene	0.105U	0.105	50.0	44.3	89	68 - 123	51.3	103	15	30
71-55-6	1,1,1-Trichloroethane	0.123U	0.123	50.0	51.3	103	79 - 133	55.3	111	8	30
79-00-5	1,1,2-Trichloroethane	0.159U	0.159	50.0	48.1	96	80 - 114	50.2	100	4	30
75-69-4	Trichlorofluoromethane	0.157U	0.157	50.0	52.6	105	66 - 156	55.4	111	5	30
96-18-4	1,2,3-Trichloropropane	0.065U	0.065	50.0	49.8	100	77 - 115	48.1	96	3	30
95-63-6	1,2,4-Trimethylbenzene	0.084U	0.084	50.0	45.0	90	82 - 120	50.1	100	11	30
108-67-8	1,3,5-Trimethylbenzene	0.066U	0.066	50.0	44.7	89	83 - 123	49.7	99	11	30
75-01-4	Vinyl chloride	0.127U	0.127	50.0	58.9	118	57 - 153	59.4	119	0.8	30
95-47-6	o-Xylene	0.055U	0.055	50.0	45.3	91	83 - 121	49.6	99	9	30
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	0.194	50.0	50.7	101	61 - 118	53.5	107	5	30
106-93-4	1,2-Dibromoethane	0.102U	0.102	50.0	50.3	101	80 - 115	53.2	106	6	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078	50.0	48.2	96	75 - 116	51.1	102	6	30
540-59-0	1,2-Dichloroethene(Total)	0.180U	0.180	100	89.9	90	74 - 128	97.5	98	8	30
99-87-6	4-Isopropyltoluene	0.070U	0.070	50.0	44.1	88	83 - 125	50.3	101	13	30
1330-20-7	Xylene (total)	0.179U	0.179	150	137	91	74 - 127	148	99	8	30
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	0.264	50.0	52.3	105	51 - 137	53.9	108	3	30
594-20-7	2,2-Dichloropropane	0.170U	0.170	50.0	49.4	99	77 - 138	54.5	109	10	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158	50.0	52.0	104	74 - 139	56.3	113	8	30
563-58-6	1,1-Dichloropropene	0.052U	0.052	50.0	45.1	90	87 - 127	49.6	99	10	30
142-28-9	1,3-Dichloropropane	0.059U	0.059	50.0	50.4	101	81 - 113	52.8	106	5	30
108-86-1	Bromobenzene	0.145U	0.145	50.0	46.7	93	83 - 115	51.0	102	9	30
95-49-8	2-Chlorotoluene	0.080U	0.080	50.0	45.1	90	81 - 121	49.5	99	9	30
106-43-4	4-Chlorotoluene	0.124U	0.124	50.0	46.0	92	84 - 120	50.3	101	9	30
98-06-6	tert-Butylbenzene	0.087U	0.087	50.0	44.9	90	83 - 126	50.5	101	12	30
135-98-8	sec-Butylbenzene	0.107U	0.107	50.0	44.8	90	86 - 127	51.1	102	13	30
541-73-1	1,3-Dichlorobenzene	0.138U	0.138	50.0	51.1	102	86 - 115	56.4	113	10	30
106-46-7	1,4-Dichlorobenzene	0.083U	0.083	50.0	49.1	98	87 - 113	53.4	107	8	30
104-51-8	n-Butylbenzene	0.123U	0.123	50.0	44.4	89	84 - 124	51.6	103	15	30
95-50-1	1,2-Dichlorobenzene	0.135U	0.135	50.0	45.9	92	85 - 115	49.5	99	8	30
87-68-3	Hexachlorobutadiene	0.265U	0.265	50.0	48.3	97	71 - 133	55.1	110	13	30
91-20-3	Naphthalene	0.176U	0.176	50.0	43.4	87	59 - 125	48.9	98	12	35
75-35-4	1,1-Dichloroethene	0.208U	0.208	50.0	50.0	100	75 - 133	55.9	112	11	20
71-43-2	Benzene	0.111U	0.111	50.0	51.5	103	83 - 124	55.3	111	7	20

GC/MS Volatiles Quality Control Summary

Analytical Batch 505235		**Client ID**	MB505235			LCS505235			LCSD505235		
Prep Batch N/A		**GCAL ID**	1181765			1181766			1181767		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	04/17/2013 11:06			04/17/2013 09:37			04/17/2013 09:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.161U	0.161	50.0	47.0	94	85 - 124	50.7	101	8	20
108-88-3	Toluene		0.122U	0.122	50.0	49.4	99	86 - 116	52.9	106	7	20
108-90-7	Chlorobenzene		0.083U	0.083	50.0	49.2	98	87 - 115	52.7	105	7	20
Surrogate												
460-00-4	4-Bromofluorobenzene		49.2	98	50	51.2	102	84 - 120	50.6	101		
1868-53-7	Dibromofluoromethane		48.8	98	50	50.6	101	87 - 116	50.2	100		
2037-26-5	Toluene d8		54.3	109	50	48.5	97	86 - 112	48.6	97		
17060-07-0	1,2-Dichloroethane-d4		48.6	97	50	49.2	98	76 - 127	49	98		

Analytical Batch 505235		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21304100601			21304100602			21304100603		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	04/17/2013 11:50			04/17/2013 13:42			04/17/2013 14:05		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**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	0.120	50.0	48.6	97	81 - 119	47.8	96	2	10
71-55-6	1,1,1-Trichloroethane		0.00	0.123	50.0	52.1	104	79 - 133	50.1	100	4	11
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.109	50.0	50.1	100	71 - 120	51.6	103	3	11
79-00-5	1,1,2-Trichloroethane		0.00	0.159	50.0	49.1	98	80 - 114	49.2	98	0.2	11
75-34-3	1,1-Dichloroethane		0.00	0.171	50.0	49.5	99	82 - 127	48.3	97	2	10
75-35-4	1,1-Dichloroethene		0.00	0.208	50.0	51.2	102	75 - 133	50.1	100	2	13
563-58-6	1,1-Dichloropropene		0.00	0.052	50.0	45.8	92	87 - 127	44.4	89	3	10
96-18-4	1,2,3-Trichloropropane		0.00	0.065	50.0	49.7	99	77 - 115	53.8	108	8	12
120-82-1	1,2,4-Trichlorobenzene		0.00	0.105	50.0	41.4	83	68 - 123	42.8	86	3	11
95-63-6	1,2,4-Trimethylbenzene		0.00	0.084	50.0	44.2	88	82 - 120	42.7	85	3	10
96-12-8	1,2-Dibromo-3-chloropropane		0.00	0.194	50.0	57.4	115	61 - 118	61.4	**123***	7	15
106-93-4	1,2-Dibromoethane		0.00	0.102	50.0	51.5	103	80 - 115	51.6	103	0.2	10
95-50-1	1,2-Dichlorobenzene		0.00	0.135	50.0	45.3	91	85 - 115	43.9	88	3	9
107-06-2	1,2-Dichloroethane		0.00	0.116	50.0	50.1	100	76 - 122	49.7	99	0.8	11
540-59-0	1,2-Dichloroethene(Total)		0.00	0.180	100	89.7	90	74 - 128	88.4	88	1	30
78-87-5	1,2-Dichloropropane		0.00	0.150	50.0	49.1	98	81 - 120	48.2	96	2	11

GC/MS Volatiles Quality Control Summary

Analytical Batch	505235	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch	N/A	**GCAL ID**	21304100601			21304100602			21304100603		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	04/17/2013 11:50			04/17/2013 13:42			04/17/2013 14:05		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
108-67-8	1,3,5-Trimethylbenzene	0.00	0.066	50.0	43.7	87	83 - 123	42.6	85	3	10
541-73-1	1,3-Dichlorobenzene	0.00	0.138	50.0	50.3	101	86 - 115	48.6	97	3	9
142-28-9	1,3-Dichloropropane	0.00	0.059	50.0	50.8	102	81 - 113	51.8	104	2	11
106-46-7	1,4-Dichlorobenzene	0.00	0.083	50.0	47.7	95	87 - 113	46.4	93	3	10
594-20-7	2,2-Dichloropropane	0.00	0.170	50.0	51.3	103	77 - 138	48.8	98	5	12
78-93-3	2-Butanone	0.00	0.142	50.0	42.7	85	61 - 127	45.6	91	7	13
95-49-8	2-Chlorotoluene	0.00	0.080	50.0	44.0	88	81 - 121	43.1	86	2	10
591-78-6	2-Hexanone	0.00	0.122	50.0	51.0	102	58 - 125	56.9	114	11	14
106-43-4	4-Chlorotoluene	0.00	0.124	50.0	45.1	90	84 - 120	44.0	88	2	10
99-87-6	4-Isopropyltoluene	0.00	0.070	50.0	44.0	88	83 - 125	42.7	85	3	9
108-10-1	4-Methyl-2-pentanone	0.00	0.120	50.0	58.5	117	62 - 125	60.9	122	4	13
67-64-1	Acetone	0.00	0.193	50.0	29.3	59	59 - 134	30.4	61	4	14
71-43-2	Benzene	0.00	0.111	50.0	52.1	104	83 - 124	50.1	100	4	11
108-86-1	Bromobenzene	0.00	0.145	50.0	46.3	93	83 - 115	46.1	92	0.4	10
74-97-5	Bromochloromethane	0.00	0.127	50.0	50.9	102	78 - 112	50.0	100	2	10
75-27-4	Bromodichloromethane	0.00	0.083	50.0	50.0	100	76 - 116	49.1	98	2	10
75-25-2	Bromoform	0.00	0.215	50.0	51.0	102	68 - 128	51.4	103	0.8	11
74-83-9	Bromomethane	0.00	0.427	50.0	41.8	84	55 - 151	42.3	85	1	21
75-15-0	Carbon disulfide	0.00	0.190	50.0	51.2	102	67 - 147	49.1	98	4	12
56-23-5	Carbon tetrachloride	0.00	0.248	50.0	51.7	103	74 - 139	50.5	101	2	13
108-90-7	Chlorobenzene	0.00	0.083	50.0	48.7	97	87 - 115	47.6	95	2	9
75-00-3	Chloroethane	0.00	0.235	50.0	62.5	125	54 - 166	60.0	120	4	20
67-66-3	Chloroform	0.00	0.155	50.0	48.3	97	85 - 123	46.7	93	3	10
74-87-3	Chloromethane	0.00	0.144	50.0	56.0	112	55 - 173	55.2	110	1	22
124-48-1	Dibromochloromethane	0.00	0.054	50.0	49.0	98	74 - 116	50.7	101	3	11
74-95-3	Dibromomethane	0.00	0.211	50.0	51.0	102	81 - 116	50.4	101	1	10
75-71-8	Dichlorodifluoromethane	0.00	0.145	50.0	54.0	108	34 - 158	54.0	108	0	22
100-41-4	Ethylbenzene	0.00	0.109	50.0	51.8	104	87 - 118	50.0	100	4	10
87-68-3	Hexachlorobutadiene	0.00	0.265	50.0	42.9	86	71 - 133	47.2	94	10	12
98-82-8	Isopropylbenzene (Cumene)	0.00	0.130	50.0	45.0	90	87 - 131	43.4	87	4	10
74-88-4	Methyl iodide	0.00	0.084	50.0	41.8	84	72 - 125	44.0	88	5	11
75-09-2	Methylene chloride	0.00	0.149	50.0	46.5	93	69 - 125	45.1	90	3	11
91-20-3	Naphthalene	0.00	0.176	50.0	44.2	88	59 - 125	48.2	96	9	15

GC/MS Volatiles Quality Control Summary

Analytical Batch	505235	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch	N/A	**GCAL ID**	21304100601			21304100602			21304100603		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	04/17/2013 11:50			04/17/2013 13:42			04/17/2013 14:05		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
100-42-5	Styrene	0.00	0.089	50.0	44.9	90	78 - 118	42.4	85	6	11
127-18-4	Tetrachloroethene	0.00	0.193	50.0	46.7	93	80 - 131	45.4	91	3	12
108-88-3	Toluene	0.00	0.122	50.0	48.5	97	86 - 116	47.7	95	2	10
79-01-6	Trichloroethene	0.00	0.161	50.0	47.0	94	85 - 124	45.6	91	3	10
75-69-4	Trichlorofluoromethane	0.00	0.157	50.0	53.1	106	66 - 156	50.3	101	5	15
76-13-1	Trichlorotrifluoroethane	0.00	0.158	50.0	52.4	105	74 - 139	50.1	100	4	13
75-01-4	Vinyl chloride	0.00	0.127	50.0	62.1	124	57 - 153	57.9	116	7	22
1330-20-7	Xylene (total)	0.00	0.179	150	137	91	74 - 127	132	88	4	30
156-59-2	cis-1,2-Dichloroethene	0.00	0.103	50.0	45.0	90	81 - 114	43.9	88	2	10
10061-01-5	cis-1,3-Dichloropropene	0.00	0.124	50.0	43.7	87	83 - 119	43.0	86	2	10
136777-61-2	m,p-Xylene	0.00	0.123	100	91.1	91	83 - 121	87.3	87	4	10
104-51-8	n-Butylbenzene	0.00	0.123	50.0	44.0	88	84 - 124	42.9	86	3	10
103-65-1	n-Propylbenzene	0.00	0.727	50.0	43.7	87	86 - 125	42.7	**85***	2	10
95-47-6	o-Xylene	0.00	0.055	50.0	45.7	91	83 - 121	44.4	89	3	10
135-98-8	sec-Butylbenzene	0.00	0.107	50.0	44.6	89	86 - 127	43.1	86	3	10
1634-04-4	tert-Butyl methyl ether (MTBE)	0.00	0.078	50.0	49.6	99	75 - 116	50.6	101	2	10
98-06-6	tert-Butylbenzene	0.00	0.087	50.0	44.9	90	83 - 126	43.7	87	3	10
156-60-5	trans-1,2-Dichloroethene	0.00	0.077	50.0	44.6	89	82 - 126	44.6	89	0	10
10061-02-6	trans-1,3-Dichloropropene	0.00	0.128	50.0	47.9	96	87 - 123	47.3	95	1	10
110-57-6	trans-1,4-Dichloro-2-butene	0.00	0.264	50.0	57.1	114	51 - 137	58.3	117	2	24
Surrogate											
460-00-4	4-Bromofluorobenzene	49.3	99	50	51.6	103	84 - 120	51.7	103		
1868-53-7	Dibromofluoromethane	50.2	100	50	50.9	102	87 - 116	50.3	101		
2037-26-5	Toluene d8	54.2	108	50	47.5	95	86 - 112	48.6	97		
17060-07-0	1,2-Dichloroethane-d4	50.2	100	50	49.8	100	76 - 127	49.8	100		

Inorganics Quality Control Summary

Analytical Batch	505065	**Client ID**	MB504937	LCS504937
Prep Batch	504937	**GCAL ID**	1180236	1180237
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	7470A	**Prep Date**	04/11/2013 13:25	04/11/2013 13:25
		Analytical Date	04/12/2013 11:15	04/12/2013 11:17
		Matrix	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000068U	0.000068	0.0050	0.0057	**114***	88 - 111

Analytical Batch	505065	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	504937	**GCAL ID**	21304100601	21304100602	21304100603
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	7470A	**Prep Date**	04/11/2013 13:25	04/11/2013 13:25	04/11/2013 13:25
	Dissolved	**Analytical Date**	04/12/2013 10:03	04/12/2013 11:31	04/12/2013 11:33
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.0	0.000068	0.0050	0.0043	**86***	88 - 111	0.0041	**82***	4.8	10

Inorganics Quality Control Summary

Analytical Batch	505065	**Client ID**	MB504936		LCS504936		
Prep Batch	504936	**GCAL ID**	1180234		1180235		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	04/11/2013 13:25		04/11/2013 13:25		
		Analytical Date	04/12/2013 10:00		04/12/2013 10:01		
		Matrix	Water		Water		
SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000068U	0.000068	0.0050	0.0048	96	88 - 111

Analytical Batch	505065	**Client ID**	MW-08-06		MW-08-06-MS			MW-08-06-MSD			
Prep Batch	504936	**GCAL ID**	21304100601		21304100602			21304100603			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	04/11/2013 13:25		04/11/2013 13:25			04/11/2013 13:25			
		Analytical Date	04/12/2013 10:03		04/12/2013 10:05			04/12/2013 10:07			
		Matrix	Water		Water			Water			
SW-846 7470A Water		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.0	0.000068	0.0050	0.0045	90	80 - 120	0.0047	94	3.8	10

Inorganics Quality Control Summary

Analytical Batch	505368	**Client ID**	MB504939	LCS504939
Prep Batch	504939	**GCAL ID**	1180238	1180239
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	04/11/2013 12:15	04/11/2013 12:15
		Analytical Date	04/17/2013 20:49	04/17/2013 20:56
		Matrix	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.050U	0.050	5.00	5.08	102	80 - 120
7440-36-0	Antimony	0.015U	0.015	0.50	0.45	90	80 - 120
7440-38-2	Arsenic	0.0050U	0.0050	0.50	0.49	98	80 - 120
7440-39-3	Barium	0.0025U	0.0025	0.50	0.49	97	80 - 120
7440-41-7	Beryllium	0.0010U	0.0010	0.50	0.49	98	80 - 120
7440-43-9	Cadmium	0.0013U	0.0013	0.50	0.49	97	80 - 120
7440-70-2	Calcium	0.20U	0.20	5.00	4.94	99	80 - 120
7440-47-3	Chromium	0.0025U	0.0025	0.50	0.49	97	80 - 120
7440-48-4	Cobalt	0.0025U	0.0025	0.50	0.49	98	80 - 120
7440-50-8	Copper	0.0050U	0.0050	0.50	0.49	97	80 - 120
7439-89-6	Iron	0.050U	0.050	5.00	5.02	100	80 - 120
7439-92-1	Lead	0.0038U	0.0038	0.50	0.49	97	80 - 120
7439-95-4	Magnesium	0.050U	0.050	5.00	4.94	99	80 - 120
7439-96-5	Manganese	0.0038U	0.0038	0.50	0.49	98	80 - 120
7440-02-0	Nickel	0.010U	0.010	0.50	0.49	98	80 - 120
7440-09-7	Potassium	0.13U	0.13	10.0	10.0	100	80 - 120
7782-49-2	Selenium	0.010U	0.010	0.50	0.50	99	80 - 120
7440-22-4	Silver	0.0025U	0.0025	0.50	0.49	98	80 - 120
7440-23-5	Sodium	0.25U	0.25	20.0	19.9	99	80 - 120
7440-28-0	Thallium	0.0050U	0.0050	0.50	0.49	99	80 - 120
7440-62-2	Vanadium	0.0050U	0.0050	0.50	0.48	96	80 - 120
7440-66-6	Zinc	0.0050U	0.0050	0.50	0.48	97	80 - 120

Inorganics Quality Control Summary

Analytical Batch	505368	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	504939	**GCAL ID**	21304100601	21304100602	21304100603
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	04/11/2013 12:15	04/11/2013 12:15	04/11/2013 12:15
		Analytical Date	04/17/2013 21:04	04/17/2013 21:11	04/17/2013 21:18
		Matrix	Water	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	0.0	0.050	5.00	5.56	111	80 - 120	5.45	109	2	20
7440-36-0	Antimony	0.0	0.015	0.50	0.59	119	80 - 120	0.59	118	0.3	20
7440-38-2	Arsenic	0.023	0.0050	0.50	0.67	**129***	80 - 120	0.65	**126***	3	20
7440-39-3	Barium	0.0061	0.0025	0.50	0.56	110	80 - 120	0.55	109	1	20
7440-41-7	Beryllium	0.0	0.0010	0.50	0.55	109	80 - 120	0.54	108	1	20
7440-43-9	Cadmium	0.0	0.0013	0.50	0.53	105	80 - 120	0.52	105	0.6	20
7440-70-2	Calcium	556	0.20	5.00	550	**-118***	80 - 120	543	**-251***	1	20
7440-47-3	Chromium	0.0	0.0025	0.50	0.53	107	80 - 120	0.53	105	1	20
7440-48-4	Cobalt	0.0	0.0025	0.50	0.53	106	80 - 120	0.53	106	0.5	20
7440-50-8	Copper	0.0	0.0050	0.50	0.62	**125***	80 - 120	0.61	**123***	1	20
7439-89-6	Iron	0.0	0.050	5.00	5.31	106	80 - 120	5.28	106	0.6	20
7439-92-1	Lead	0.0	0.0038	0.50	0.52	104	80 - 120	0.52	104	0.02	20
7439-95-4	Magnesium	876	0.050	5.00	860	**-322***	80 - 120	850	**-517***	1	20
7439-96-5	Manganese	0.0	0.0038	0.50	0.54	107	80 - 120	0.53	106	1	20
7440-02-0	Nickel	0.0	0.010	0.50	0.53	106	80 - 120	0.53	105	0.4	20
7440-09-7	Potassium	26.3	0.13	10.0	38.8	**125***	80 - 120	38.7	**124***	0.4	20
7782-49-2	Selenium	0.0	0.010	0.50	0.64	**129***	80 - 120	0.65	**129***	0.6	20
7440-22-4	Silver	0.0	0.0025	0.50	0.62	**124***	80 - 120	0.61	**122***	2	20
7440-28-0	Thallium	0.0065	0.0050	0.50	0.53	105	80 - 120	0.53	104	1	20
7440-62-2	Vanadium	0.10	0.0050	0.50	0.68	115	80 - 120	0.67	114	1	20
7440-66-6	Zinc	0.0	0.0050	0.50	0.57	115	80 - 120	0.57	114	1	20

Analytical Batch	505521	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	504939	**GCAL ID**	21304100601	21304100602	21304100603
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	04/11/2013 12:15	04/11/2013 12:15	04/11/2013 12:15
		Analytical Date	04/18/2013 13:33	04/16/2013 23:28	04/16/2013 23:36
		Matrix	Water	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
7440-23-5	Sodium	4950	2.50	20.0	4730	**-1080***	80 - 120	4680	**-1360***	1	20

General Chemistry Quality Control Summary

Analytical Batch 505041	**Client ID**	MB505041			LCS505041		
Prep Batch N/A	**GCAL ID**	1180743			1180744		
	Sample Type	Method Blank			LCS		
	Analytical Date	04/11/2013 17:15			04/11/2013 17:15		
	Matrix	Water			Water		
SM 2540 C - 1997		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	972	97	90 - 110

Analytical Batch 505041	**Client ID**	U43010B		1179683DUP		
Prep Batch N/A	**GCAL ID**	21304091701		1180745		
	Sample Type	SAMPLE		DUP		
	Analytical Date	04/11/2013 17:15		04/11/2013 17:15		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2850	4.39	2880	1	5

Analytical Batch 505117	**Client ID**	MB505117			LCS505117		
Prep Batch N/A	**GCAL ID**	1181169			1181170		
	Sample Type	Method Blank			LCS		
	Analytical Date	04/12/2013 16:45			04/12/2013 16:45		
	Matrix	Water			Water		
SM 2540 C - 1997		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	1000	100	90 - 110

Analytical Batch 505117	**Client ID**	MW-08-08		1180073DUP		
Prep Batch N/A	**GCAL ID**	21304100610		1181171		
	Sample Type	SAMPLE		DUP		
	Analytical Date	04/12/2013 16:45		04/12/2013 16:45		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	26900	4.39	28100	4.4	5

General Chemistry Quality Control Summary

Analytical Batch 504913	**Client ID**	MB504913			LCS504913		
Prep Batch N/A	**GCAL ID**	1180096			1180097		
	Sample Type	Method Blank			LCS		
	Analytical Date	04/10/2013 15:06			04/10/2013 15:59		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.115U	0.115	2.50	2.71	108	80 - 120

Analytical Batch 504913	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD			
Prep Batch N/A	**GCAL ID**	21304100601			21304100602			21304100603			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	04/10/2013 13:20			04/10/2013 13:38			04/10/2013 13:55			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		18.4	2.30	50.0	75.2	113	75 - 125	75.8	115	0.82	25

Analytical Batch 504913	**Client ID**	MMW-460			1180105MS			1180105MSD			
Prep Batch N/A	**GCAL ID**	21304100904			1180098			1180099			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	04/10/2013 20:41			04/10/2013 20:58			04/10/2013 21:16			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		0.000	0.115	2.50	2.74	110	75 - 125	2.77	111	0.9	25

NATIONVIEW

Page: 1 of 1

NV Project No: 10-0004

COC Number(1): 04092013-02

LIMS Number:

Chain of Custody and Analytical Request

NATIONVIEW/4771/21304000/04/19/13

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q6)

Client Name: USACE Omaha District

Collected by: Tony Lucero / Randy Pochel/Dustin McNeil

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)	Nitrate (300/9056)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
MW-08-06	MW-08-06	4/8/2013	1440	-	N	1	WG	6	X	X	X	X	X							2
MW-08-06-MS	MW-08-06	4/8/2013	1440	-	MS	1	WG	6	X	X	X	X	X							2
MW-08-06-MSD	MW08-06	4/8/2013	1440	-	SD	1	WG	6	X	X	X	X	X							2
MW-08-07	MW08-07	4/8/2013	1510		N	1	WG	6	X	X	X	X	X							2
MW-08-03	MW08-03	4/8/2013	1615		N	1	WG	6	X	X	X	X	X							2
Trip Blank		4/8/13	10:00 BPR	-	TB	1	WQ ~~TB~~ JTM	3	X											2
				-																
				-																
				-																
				-																
				-																

Sample Analysis Requested (5) — Quality Assurance Samples (6)

3.0 COMMENTS: Dissolved TAL Metals filtered in the field

7994 7656 8077

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. A Moore	4/9/13	1400	1.		
2. FEDEX	4.10.13	09:00	2. Brittany	4/10/13	09:00
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	7994 7656 8695
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

*used time off container.

NATIONVIEW

Page: 1 of 1

NV Project No: 10-0004

COC Number(1): 04092013-01

LIMS Number:

Chain of Custody and Analytical Request

NATIONVIEW/4771/2B0410006/04/19/13

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q6)

Client Name: USACE Omaha District

Collected by: Tony Lucero / Randy Pochel/Dustin McNeil

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)	Nitrate (300/9056)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)									Quality Assurance Samples (6)			
MW-08-04	MW-08-04	4/8/2013	1345	-	N	1	WG	6	X	X	X	X	X							1
MW-08-01	MW-08-01	4/8/2013	1400	-	N	1	WG	6	X	X	X	X	X							1
MW-08-01-A	MW-08-01	4/8/2013	1400	-	FD	1	WG	6	X	X	X	X	X							1
MW-08-08	MW-08-08	4/8/2013	1555		N	1	WG	6	X	X	X	X	X							1
Trip Blank		4/8/13	10:00		TB	1	WQ	3	X										3043050	1
		RP		-																
				-																
				-																
				-																
				-																
				-																

38 COMMENTS: Dissolved TAL Metals filtered in the field

7994 7656 8077

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	4/9/2013	1400	1.		
2. FEDEX	4.10.13	09:00	2. [signature]	4.10.13	09:00
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	7994 7656 8077
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

* Used time off container.

NATIONVIEW

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NV Project No: 10-0004

COC Number(1): 04092013-03

LIMS Number:

Chain of Custody and Analytical Request

NATIONVIEW/4771/2130410061 04/19/13

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q6)

Client Name: USACE Omaha District

Collected by: Tony Lucero / Randy Pochel/Dustin McNeil

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)	Nitrate (300/9056)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)									Quality Assurance Samples (6)			
S10-MW02	S10-MW02	4/9/13	0835	-	N	1	WG	6	X	X	X	X	X						12	3
SWMU183-MW03	SWMU183-MW03	4/9/13	0950	-	N	1	WG	6	X	X	X	X	X						13	3
S10-MW06	S10-MW06	4/9/13	1000	-	N	1	WG	6	X	X	X	X	X						14	3
MW08-05	MW-08-05	4/9/13	1045		N	1	WG	6	X	X	X	X	X						15	3
S10-MW01	S10-MW01	4/9/13	1115		N	1	WG	6	X	X	X	X	X						16	3
TRIP Blank		4/9/13	08:00	-	TB	1	WQ	3	X										3043050	3
		RPP		-																
				-																
				-																
				-																
				-																

3.8 COMMENTS: Dissolved TAL Metals filtered in the field

7994 7656 8077

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	4/9/13	1400	1.		
2. FEDEX	4.10.13	09:00	2. [signature]	4/10/13	09:00
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	7994 7656 8732
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

* used time off container.

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

213041006

SAMPLE DELIVERY GROUP	213041006
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile Number 204817	**Received By** Law, Brittany P.
Line Item(s) 3 - SD-08	**Receive Date(s)** 04/10/13

CHECKLIST

Were all samples received using proper thermal preservation?	☑ Yes	☐ No	☐ NA
When used, were all custody seals intact?	☑ Yes	☐ No	☐ NA
Were all samples received in proper containers?	☑ Yes	☐ No	☐ NA
Were all samples received using proper chemical preservation?	☑ Yes	☐ No	☐ NA
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ NA
Were all containers received in good condition?	☑ Yes	☐ No	☐ NA
Were all VOA vials received with no head space?	☐ Yes	☑ No	☐ NA
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ NA
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ NA
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑ Yes	☐ No	☐ NA

COOLERS

Airbill	Temp(oC)
7994 7656 8077	3.6
	3.8
	3.8

DISCREPANCIES

21304100617 - TRIP BLANK
- Sample Discrepancy

21304100606 - TRIP BLANK
- Sample Discrepancy

21304100611 - TRIP BLANK
- Sample Discrepancy

LABORATORY PRESERVATIONS

None

NOTES

D-8

LTM Quarter 7 (Jul 2013, NationView)

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 07/31/2013

GCAL Report 213072319

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450 Ext. 104
Attn	Jim Moore

Project Holloman AFB

CASE NARRATIVE

Client: NationView LLC **Report:** 213072319

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 512414, the MS/MSD exhibited recovery failures. The LCS/LCSD recoveries are acceptable.

METALS

In the SW-846 6010C Dissolved analysis for prep batch 512143, the MS/MSD recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. The MS/MSD recoveries are not applicable for Sodium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010C Dissolved analysis, all samples had to be diluted to eliminate a chemical or physical interference and/or to bracket the concentration of target analytes within the linear dynamic range of the instrument. This is reflected in the elevated reporting limits.

CONVENTIONALS

In the EPA 300.0 analysis, all samples had to be diluted in order to bracket the concentration within the calibration range of the instrument.

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.

_____

Authorized Signature
GCAL REPORT 213072319

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231901	S10-MW06	Water	07/22/2013 09:00	07/23/2013 10:30
21307231902	S10-MW06-A	Water	07/22/2013 09:00	07/23/2013 10:30
21307231903	SD08-MW12	Water	07/22/2013 10:20	07/23/2013 10:30
21307231904	MW-08-06	Water	07/22/2013 11:00	07/23/2013 10:30
21307231905	MW-08-06-MS	Water	07/22/2013 11:00	07/23/2013 10:30
21307231906	MW-08-06-MSD	Water	07/22/2013 11:00	07/23/2013 10:30
21307231907	TRIP BLANK	Water	07/22/2013 00:00	07/23/2013 10:30

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231901	**S10-MW06**	Water	07/22/2013 09:00	07/23/2013 10:30

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	439	8.00	2.00	mg/L
7440-50-8	Copper	0.15J	0.20	0.050	mg/L
7439-95-4	Magnesium	588	2.00	0.50	mg/L
7439-96-5	Manganese	0.19	0.15	0.038	mg/L
7440-09-7	Potassium	29.4	5.00	1.25	mg/L
7440-23-5	Sodium	3210	10.0	2.50	mg/L
7440-62-2	Vanadium	0.45	0.20	0.050	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	46.7	10.0	0.400	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	15000	10.0	4.39	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231902	**S10-MW06-A**	Water	07/22/2013 09:00	07/23/2013 10:30

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	462	8.00	2.00	mg/L
7440-50-8	Copper	0.15J	0.20	0.050	mg/L
7439-95-4	Magnesium	654	2.00	0.50	mg/L
7439-96-5	Manganese	0.14J	0.15	0.038	mg/L
7440-09-7	Potassium	31.3	5.00	1.25	mg/L
7440-23-5	Sodium	3470	10.0	2.50	mg/L
7440-62-2	Vanadium	0.46	0.20	0.050	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	45.7	10.0	0.400	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	15200	10.0	4.39	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231903	**SD08-MW12**	Water	07/22/2013 10:20	07/23/2013 10:30

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50J	2.00	0.50	mg/L
7440-38-2	Arsenic	0.064J	0.20	0.050	mg/L
7440-39-3	Barium	0.026J	0.10	0.025	mg/L
7440-70-2	Calcium	753	8.00	2.00	mg/L
7440-50-8	Copper	0.24	0.20	0.050	mg/L
7439-95-4	Magnesium	3520	2.00	0.50	mg/L
7439-96-5	Manganese	0.069J	0.15	0.038	mg/L
7440-09-7	Potassium	85.3	5.00	1.25	mg/L
7440-62-2	Vanadium	0.83	0.20	0.050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	14300	100	25.0	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	69700	10.0	4.39	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.95J	50.0	2.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231904	**MW-08-06**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	583	8.00	2.00	mg/L
7440-50-8	Copper	0.19J	0.20	0.050	mg/L
7439-95-4	Magnesium	1230	2.00	0.50	mg/L
7440-09-7	Potassium	31.0	5.00	1.25	mg/L
7440-62-2	Vanadium	0.65	0.20	0.050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	6430	100	25.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231904	**MW-08-06**	Water	07/22/2013 11:00	07/23/2013 10:30

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	13.2J	25.0	1.00	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	25300	10.0	4.39	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-66-3	Chloroform	0.784J	5.00	0.155	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231905	**MW-08-06-MS**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0046	0.00020	0.000068	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.00	2.00	0.50	mg/L
7440-36-0	Antimony	0.53J	0.60	0.15	mg/L
7440-38-2	Arsenic	0.56	0.20	0.050	mg/L
7440-39-3	Barium	0.53	0.10	0.025	mg/L
7440-41-7	Beryllium	0.50	0.040	0.010	mg/L
7440-43-9	Cadmium	0.50	0.050	0.013	mg/L
7440-70-2	Calcium	602	8.00	2.00	mg/L
7440-47-3	Chromium	0.51	0.10	0.025	mg/L
7440-48-4	Cobalt	0.49	0.10	0.025	mg/L
7440-50-8	Copper	0.71	0.20	0.050	mg/L
7439-89-6	Iron	4.75	2.00	0.50	mg/L
7439-92-1	Lead	0.47	0.15	0.038	mg/L
7439-95-4	Magnesium	1260	2.00	0.50	mg/L
7439-96-5	Manganese	0.47	0.15	0.038	mg/L
7440-02-0	Nickel	0.51	0.40	0.10	mg/L
7440-09-7	Potassium	41.0	5.00	1.25	mg/L
7782-49-2	Selenium	0.52	0.40	0.10	mg/L
7440-22-4	Silver	0.51	0.10	0.025	mg/L
7440-28-0	Thallium	0.51	0.20	0.050	mg/L
7440-62-2	Vanadium	1.17	0.20	0.050	mg/L
7440-66-6	Zinc	0.49	0.20	0.050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231905	**MW-08-06-MS**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	6630	100	25.0	mg/L

SW-846 7470A Water

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0040	0.00020	0.000068	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	127	25.0	1.00	mg/L

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.6	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	50.1	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.8	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	50.6	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	46.9	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	50.9	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	48.6	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	53.8	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	48.4	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	45.7	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	68.3	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	53.6	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	47.3	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	49.7	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	95.3	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	50.1	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	44.1	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	47.7	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	49.3	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	45.7	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	44.8	5.00	0.170	ug/L
78-93-3	2-Butanone	55.6	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	44.9	5.00	0.080	ug/L
591-78-6	2-Hexanone	65.3	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	48.0	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	44.7	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	66.4	5.00	0.120	ug/L
67-64-1	Acetone	46.0	5.00	0.193	ug/L
71-43-2	Benzene	48.6	5.00	0.111	ug/L
108-86-1	Bromobenzene	44.8	5.00	0.145	ug/L
74-97-5	Bromochloromethane	52.2	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	51.5	5.00	0.083	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231905	**MW-08-06-MS**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
75-25-2	Bromoform	56.0	5.00	0.215	ug/L
74-83-9	Bromomethane	44.7	5.00	0.427	ug/L
75-15-0	Carbon disulfide	47.4	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	48.6	5.00	0.248	ug/L
108-90-7	Chlorobenzene	47.9	5.00	0.083	ug/L
75-00-3	Chloroethane	32.7	5.00	0.235	ug/L
67-66-3	Chloroform	48.7	5.00	0.155	ug/L
74-87-3	Chloromethane	51.8	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	53.0	5.00	0.054	ug/L
74-95-3	Dibromomethane	51.8	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	46.2	5.00	0.145	ug/L
100-41-4	Ethylbenzene	46.8	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	47.9	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	48.0	5.00	0.130	ug/L
74-88-4	Methyl iodide	54.6	5.00	0.084	ug/L
75-09-2	Methylene chloride	47.6	5.00	0.149	ug/L
91-20-3	Naphthalene	56.5	5.00	0.176	ug/L
100-42-5	Styrene	44.7	5.00	0.089	ug/L
127-18-4	Tetrachloroethene	50.0	5.00	0.193	ug/L
108-88-3	Toluene	49.0	5.00	0.122	ug/L
79-01-6	Trichloroethene	49.5	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	52.4	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	51.1	5.00	0.158	ug/L
75-01-4	Vinyl chloride	51.3	5.00	0.127	ug/L
1330-20-7	Xylene (total)	143	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	47.7	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	50.8	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	95.8	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	43.7	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	44.5	5.00	0.727	ug/L
95-47-6	o-Xylene	47.6	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	46.3	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	49.7	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	46.0	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	47.6	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	52.3	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	55.5	5.00	0.264	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231906	**MW-08-06-MSD**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.24	2.00	0.50	mg/L
7440-36-0	Antimony	0.54J	0.60	0.15	mg/L
7440-38-2	Arsenic	0.52	0.20	0.050	mg/L
7440-39-3	Barium	0.53	0.10	0.025	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231906	**MW-08-06-MSD**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-41-7	Beryllium	0.49	0.040	0.010	mg/L
7440-43-9	Cadmium	0.49	0.050	0.013	mg/L
7440-70-2	Calcium	590	8.00	2.00	mg/L
7440-47-3	Chromium	0.51	0.10	0.025	mg/L
7440-48-4	Cobalt	0.49	0.10	0.025	mg/L
7440-50-8	Copper	0.72	0.20	0.050	mg/L
7439-89-6	Iron	4.67	2.00	0.50	mg/L
7439-92-1	Lead	0.46	0.15	0.038	mg/L
7439-95-4	Magnesium	1240	2.00	0.50	mg/L
7439-96-5	Manganese	0.47	0.15	0.038	mg/L
7440-02-0	Nickel	0.50	0.40	0.10	mg/L
7440-09-7	Potassium	40.4	5.00	1.25	mg/L
7782-49-2	Selenium	0.50	0.40	0.10	mg/L
7440-22-4	Silver	0.51	0.10	0.025	mg/L
7440-28-0	Thallium	0.50	0.20	0.050	mg/L
7440-62-2	Vanadium	1.18	0.20	0.050	mg/L
7440-66-6	Zinc	0.49	0.20	0.050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	6460	100	25.0	mg/L

SW-846 7470A Water

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0041	0.00020	0.000068	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0045	0.00020	0.000068	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	123	25.0	1.00	mg/L

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.3	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	51.4	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.8	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	50.7	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	47.7	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	49.7	5.00	0.208	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231906	**MW-08-06-MSD**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
563-58-6	1,1-Dichloropropene	49.0	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	51.3	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	45.5	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	43.7	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	64.8	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	53.0	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	44.8	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	49.8	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	97.3	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	50.2	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	42.0	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	44.9	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	49.6	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	43.3	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	41.6	5.00	0.170	ug/L
78-93-3	2-Butanone	58.9	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	42.3	5.00	0.080	ug/L
591-78-6	2-Hexanone	64.7	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	45.1	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	41.8	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	66.9	5.00	0.120	ug/L
67-64-1	Acetone	49.9	5.00	0.193	ug/L
71-43-2	Benzene	48.8	5.00	0.111	ug/L
108-86-1	Bromobenzene	42.0	5.00	0.145	ug/L
74-97-5	Bromochloromethane	53.6	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	52.1	5.00	0.083	ug/L
75-25-2	Bromoform	56.6	5.00	0.215	ug/L
74-83-9	Bromomethane	45.6	5.00	0.427	ug/L
75-15-0	Carbon disulfide	47.3	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	49.0	5.00	0.248	ug/L
108-90-7	Chlorobenzene	47.2	5.00	0.083	ug/L
75-00-3	Chloroethane	33.4	5.00	0.235	ug/L
67-66-3	Chloroform	49.3	5.00	0.155	ug/L
74-87-3	Chloromethane	50.0	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	53.5	5.00	0.054	ug/L
74-95-3	Dibromomethane	52.5	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	46.5	5.00	0.145	ug/L
100-41-4	Ethylbenzene	46.2	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	44.7	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	48.5	5.00	0.130	ug/L
74-88-4	Methyl iodide	49.3	5.00	0.084	ug/L
75-09-2	Methylene chloride	48.4	5.00	0.149	ug/L
91-20-3	Naphthalene	54.5	5.00	0.176	ug/L
100-42-5	Styrene	44.8	5.00	0.089	ug/L
127-18-4	Tetrachloroethene	49.1	5.00	0.193	ug/L
108-88-3	Toluene	47.2	5.00	0.122	ug/L
79-01-6	Trichloroethene	48.0	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	51.7	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	50.4	5.00	0.158	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231906	**MW-08-06-MSD**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
75-01-4	Vinyl chloride	50.7	5.00	0.127	ug/L
1330-20-7	Xylene (total)	144	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	48.7	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	50.5	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	95.1	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	41.4	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	41.2	5.00	0.727	ug/L
95-47-6	o-Xylene	49.1	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	42.7	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	51.1	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	42.9	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	48.6	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	52.7	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	52.9	5.00	0.264	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231907	**TRIP BLANK**	Water	07/22/2013 00:00	07/23/2013 10:30

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.32J	5.00	0.193	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231901	**S10-MW06**	Water	07/22/2013 09:00	07/23/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 18:39	LBH	512414

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231901	**S10-MW06**	Water	07/22/2013 09:00	07/23/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 18:39	LBH	512414

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.5	ug/L	103	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	51.4	ug/L	103	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.9	ug/L	98	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 14:10	512290	SW-846 7470A Dissolved	1	07/25/2013 12:08	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 14:10	512290	SW-846 7470A	1	07/25/2013 12:14	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231901	**S10-MW06**	Water	07/22/2013 09:00	07/23/2013 10:30

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 13:10	512143	SW-846 3005 Dissolved	10	07/26/2013 20:30	BAM	512529

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**439**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.15J**	**0.20**	**0.050**	**mg/L**
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**588**	**2.00**	**0.50**	**mg/L**
7439-96-5	**Manganese**	**0.19**	**0.15**	**0.038**	**mg/L**
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**29.4**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-23-5	**Sodium**	**3210**	**10.0**	**2.50**	**mg/L**
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.45**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 10:50	DJH	512404

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**15000**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	07/23/2013 18:45	AEL	512294

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**46.7**	**10.0**	**0.400**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231902	**S10-MW06-A**	Water	07/22/2013 09:00	07/23/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 19:01	CEK	512414

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231902	**S10-MW06-A**	Water	07/22/2013 09:00	07/23/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 19:01	CEK	512414

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	52.2	ug/L	104	84 - 120
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	52.8	ug/L	106	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 14:10	512290	SW-846 7470A Dissolved	1	07/25/2013 12:15	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 14:10	512290	SW-846 7470A	1	07/25/2013 12:17	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231902	**S10-MW06-A**	Water	07/22/2013 09:00	07/23/2013 10:30

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 13:10	512143	SW-846 3005 Dissolved	10	07/26/2013 20:45	BAM	512529

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**462**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.15J**	**0.20**	**0.050**	**mg/L**
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**654**	**2.00**	**0.50**	**mg/L**
7439-96-5	**Manganese**	**0.14J**	**0.15**	**0.038**	**mg/L**
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**31.3**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-23-5	**Sodium**	**3470**	**10.0**	**2.50**	**mg/L**
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.46**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 10:50	DJH	512404

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**15200**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	07/23/2013 19:20	AEL	512294

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**45.7**	**10.0**	**0.400**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231903	**SD08-MW12**	Water	07/22/2013 10:20	07/23/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 19:23	CEK	512414

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231903	**SD08-MW12**	Water	07/22/2013 10:20	07/23/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 19:23	CEK	512414

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	53.2	ug/L	106	84 - 120
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	52.5	ug/L	105	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 14:10	512290	SW-846 7470A Dissolved	1	07/25/2013 12:19	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 14:10	512290	SW-846 7470A	1	07/25/2013 12:21	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231903	**SD08-MW12**	Water	07/22/2013 10:20	07/23/2013 10:30

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 13:10	512143	SW-846 3005 Dissolved	100	07/26/2013 18:29	BAM	512529

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**14300**	**100**	**25.0**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 13:10	512143	SW-846 3005 Dissolved	10	07/26/2013 21:00	BAM	512529

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.50J**	**2.00**	**0.50**	**mg/L**
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	**Arsenic**	**0.064J**	**0.20**	**0.050**	**mg/L**
7440-39-3	**Barium**	**0.026J**	**0.10**	**0.025**	**mg/L**
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**753**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.24**	**0.20**	**0.050**	**mg/L**
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**3520**	**2.00**	**0.50**	**mg/L**
7439-96-5	**Manganese**	**0.069J**	**0.15**	**0.038**	**mg/L**
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**85.3**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.83**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/23/2013 16:15	JEM	512286

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**69700**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	07/23/2013 19:54	AEL	512294

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**4.95J**	**50.0**	**2.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231904	**MW-08-06**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 12:48	LBH	512414

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	**Chloroform**	**0.784J**	**5.00**	**0.155**	**ug/L**
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231904	**MW-08-06**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 12:48	LBH	512414

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.6	ug/L	103	84 - 120
1868-53-7	Dibromofluoromethane	50	51.4	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	51.4	ug/L	103	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.6	ug/L	103	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 14:10	512290	SW-846 7470A Dissolved	1	07/25/2013 11:56	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 14:10	512290	SW-846 7470A	1	07/25/2013 11:58	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231904	**MW-08-06**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 13:10	512143	SW-846 3005 Dissolved	10	07/25/2013 16:05	BAM	512445

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**583**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.19J**	**0.20**	**0.050**	**mg/L**
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**1230**	**2.00**	**0.50**	**mg/L**
7439-96-5	Manganese	0.038U	0.15	0.038	mg/L
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**31.0**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.65**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 13:10	512143	SW-846 3005 Dissolved	100	07/26/2013 17:12	BAM	512529

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**6430**	**100**	**25.0**	**mg/L**

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/23/2013 16:15	JEM	512286

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**25300**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/23/2013 21:56	AEL	512294

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**13.2J**	**25.0**	**1.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231905	**MW-08-06-MS**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 16:26	LBH	512414

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.6	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	50.1	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.8	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	50.6	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	46.9	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	50.9	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	48.6	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	53.8	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	48.4	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	45.7	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	68.3	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	53.6	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	47.3	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	49.7	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	95.3	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	50.1	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	44.1	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	47.7	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	49.3	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	45.7	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	44.8	5.00	0.170	ug/L
78-93-3	2-Butanone	55.6	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	44.9	5.00	0.080	ug/L
591-78-6	2-Hexanone	65.3	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	48.0	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	44.7	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	66.4	5.00	0.120	ug/L
67-64-1	Acetone	46.0	5.00	0.193	ug/L
71-43-2	Benzene	48.6	5.00	0.111	ug/L
108-86-1	Bromobenzene	44.8	5.00	0.145	ug/L
74-97-5	Bromochloromethane	52.2	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	51.5	5.00	0.083	ug/L
75-25-2	Bromoform	56.0	5.00	0.215	ug/L
74-83-9	Bromomethane	44.7	5.00	0.427	ug/L
75-15-0	Carbon disulfide	47.4	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	48.6	5.00	0.248	ug/L
108-90-7	Chlorobenzene	47.9	5.00	0.083	ug/L
75-00-3	Chloroethane	32.7	5.00	0.235	ug/L
67-66-3	Chloroform	48.7	5.00	0.155	ug/L
74-87-3	Chloromethane	51.8	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	53.0	5.00	0.054	ug/L
74-95-3	Dibromomethane	51.8	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	46.2	5.00	0.145	ug/L
100-41-4	Ethylbenzene	46.8	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	47.9	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	48.0	5.00	0.130	ug/L
74-88-4	Methyl iodide	54.6	5.00	0.084	ug/L
75-09-2	Methylene chloride	47.6	5.00	0.149	ug/L
91-20-3	Naphthalene	56.5	5.00	0.176	ug/L
100-42-5	Styrene	44.7	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231905	**MW-08-06-MS**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 16:26	LBH	512414

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**50.0**	**5.00**	**0.193**	**ug/L**
108-88-3	**Toluene**	**49.0**	**5.00**	**0.122**	**ug/L**
79-01-6	**Trichloroethene**	**49.5**	**5.00**	**0.161**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**52.4**	**5.00**	**0.157**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**51.1**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**51.3**	**5.00**	**0.127**	**ug/L**
1330-20-7	**Xylene (total)**	**143**	**15.0**	**0.179**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**47.7**	**5.00**	**0.103**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**50.8**	**5.00**	**0.124**	**ug/L**
136777-61-2	**m,p-Xylene**	**95.8**	**10.0**	**0.123**	**ug/L**
104-51-8	**n-Butylbenzene**	**43.7**	**5.00**	**0.123**	**ug/L**
103-65-1	**n-Propylbenzene**	**44.5**	**5.00**	**0.727**	**ug/L**
95-47-6	**o-Xylene**	**47.6**	**5.00**	**0.055**	**ug/L**
135-98-8	**sec-Butylbenzene**	**46.3**	**5.00**	**0.107**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**49.7**	**5.00**	**0.078**	**ug/L**
98-06-6	**tert-Butylbenzene**	**46.0**	**5.00**	**0.087**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**47.6**	**5.00**	**0.077**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**52.3**	**5.00**	**0.128**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**55.5**	**5.00**	**0.264**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	53.7	ug/L	107	84 - 120
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	50.7	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49	ug/L	98	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 14:10	512290	SW-846 7470A Dissolved	1	07/25/2013 11:59	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0046**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 14:10	512290	SW-846 7470A	1	07/25/2013 12:01	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0040**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231905	**MW-08-06-MS**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 13:10	512143	SW-846 3005 Dissolved	10	07/25/2013 16:12	BAM	512445

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.00	2.00	0.50	mg/L
7440-36-0	Antimony	0.53J	0.60	0.15	mg/L
7440-38-2	Arsenic	0.56	0.20	0.050	mg/L
7440-39-3	Barium	0.53	0.10	0.025	mg/L
7440-41-7	Beryllium	0.50	0.040	0.010	mg/L
7440-43-9	Cadmium	0.50	0.050	0.013	mg/L
7440-70-2	Calcium	602	8.00	2.00	mg/L
7440-47-3	Chromium	0.51	0.10	0.025	mg/L
7440-48-4	Cobalt	0.49	0.10	0.025	mg/L
7440-50-8	Copper	0.71	0.20	0.050	mg/L
7439-89-6	Iron	4.75	2.00	0.50	mg/L
7439-92-1	Lead	0.47	0.15	0.038	mg/L
7439-95-4	Magnesium	1260	2.00	0.50	mg/L
7439-96-5	Manganese	0.47	0.15	0.038	mg/L
7440-02-0	Nickel	0.51	0.40	0.10	mg/L
7440-09-7	Potassium	41.0	5.00	1.25	mg/L
7782-49-2	Selenium	0.52	0.40	0.10	mg/L
7440-22-4	Silver	0.51	0.10	0.025	mg/L
7440-28-0	Thallium	0.51	0.20	0.050	mg/L
7440-62-2	Vanadium	1.17	0.20	0.050	mg/L
7440-66-6	Zinc	0.49	0.20	0.050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 13:10	512143	SW-846 3005 Dissolved	100	07/26/2013 17:20	BAM	512529

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	6630	100	25.0	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/23/2013 22:14	AEL	512294

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	127	25.0	1.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231906	**MW-08-06-MSD**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 16:48	LBH	512414

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.3	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	51.4	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.8	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	50.7	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	47.7	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	49.7	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	49.0	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	51.3	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	45.5	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	43.7	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	64.8	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	53.0	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	44.8	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	49.8	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	97.3	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	50.2	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	42.0	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	44.9	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	49.6	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	43.3	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	41.6	5.00	0.170	ug/L
78-93-3	2-Butanone	58.9	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	42.3	5.00	0.080	ug/L
591-78-6	2-Hexanone	64.7	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	45.1	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	41.8	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	66.9	5.00	0.120	ug/L
67-64-1	Acetone	49.9	5.00	0.193	ug/L
71-43-2	Benzene	48.8	5.00	0.111	ug/L
108-86-1	Bromobenzene	42.0	5.00	0.145	ug/L
74-97-5	Bromochloromethane	53.6	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	52.1	5.00	0.083	ug/L
75-25-2	Bromoform	56.6	5.00	0.215	ug/L
74-83-9	Bromomethane	45.6	5.00	0.427	ug/L
75-15-0	Carbon disulfide	47.3	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	49.0	5.00	0.248	ug/L
108-90-7	Chlorobenzene	47.2	5.00	0.083	ug/L
75-00-3	Chloroethane	33.4	5.00	0.235	ug/L
67-66-3	Chloroform	49.3	5.00	0.155	ug/L
74-87-3	Chloromethane	50.0	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	53.5	5.00	0.054	ug/L
74-95-3	Dibromomethane	52.5	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	46.5	5.00	0.145	ug/L
100-41-4	Ethylbenzene	46.2	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	44.7	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	48.5	5.00	0.130	ug/L
74-88-4	Methyl iodide	49.3	5.00	0.084	ug/L
75-09-2	Methylene chloride	48.4	5.00	0.149	ug/L
91-20-3	Naphthalene	54.5	5.00	0.176	ug/L
100-42-5	Styrene	44.8	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231906	**MW-08-06-MSD**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 16:48	LBH	512414

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**49.1**	**5.00**	**0.193**	**ug/L**
108-88-3	**Toluene**	**47.2**	**5.00**	**0.122**	**ug/L**
79-01-6	**Trichloroethene**	**48.0**	**5.00**	**0.161**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**51.7**	**5.00**	**0.157**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**50.4**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**50.7**	**5.00**	**0.127**	**ug/L**
1330-20-7	**Xylene (total)**	**144**	**15.0**	**0.179**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**48.7**	**5.00**	**0.103**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**50.5**	**5.00**	**0.124**	**ug/L**
136777-61-2	**m,p-Xylene**	**95.1**	**10.0**	**0.123**	**ug/L**
104-51-8	**n-Butylbenzene**	**41.4**	**5.00**	**0.123**	**ug/L**
103-65-1	**n-Propylbenzene**	**41.2**	**5.00**	**0.727**	**ug/L**
95-47-6	**o-Xylene**	**49.1**	**5.00**	**0.055**	**ug/L**
135-98-8	**sec-Butylbenzene**	**42.7**	**5.00**	**0.107**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**51.1**	**5.00**	**0.078**	**ug/L**
98-06-6	**tert-Butylbenzene**	**42.9**	**5.00**	**0.087**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**48.6**	**5.00**	**0.077**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**52.7**	**5.00**	**0.128**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**52.9**	**5.00**	**0.264**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	55.9	ug/L	112	84 - 120
1868-53-7	Dibromofluoromethane	50	52.5	ug/L	105	87 - 116
2037-26-5	Toluene d8	50	50.8	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 14:10	512290	SW-846 7470A Dissolved	1	07/25/2013 12:03	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0045**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 14:10	512290	SW-846 7470A	1	07/25/2013 12:05	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0041**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231906	**MW-08-06-MSD**	Water	07/22/2013 11:00	07/23/2013 10:30

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 13:10	512143	SW-846 3005 Dissolved	10	07/25/2013 16:19	BAM	512445

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5.24	2.00	0.50	mg/L
7440-36-0	Antimony	0.54J	0.60	0.15	mg/L
7440-38-2	Arsenic	0.52	0.20	0.050	mg/L
7440-39-3	Barium	0.53	0.10	0.025	mg/L
7440-41-7	Beryllium	0.49	0.040	0.010	mg/L
7440-43-9	Cadmium	0.49	0.050	0.013	mg/L
7440-70-2	Calcium	590	8.00	2.00	mg/L
7440-47-3	Chromium	0.51	0.10	0.025	mg/L
7440-48-4	Cobalt	0.49	0.10	0.025	mg/L
7440-50-8	Copper	0.72	0.20	0.050	mg/L
7439-89-6	Iron	4.67	2.00	0.50	mg/L
7439-92-1	Lead	0.46	0.15	0.038	mg/L
7439-95-4	Magnesium	1240	2.00	0.50	mg/L
7439-96-5	Manganese	0.47	0.15	0.038	mg/L
7440-02-0	Nickel	0.50	0.40	0.10	mg/L
7440-09-7	Potassium	40.4	5.00	1.25	mg/L
7782-49-2	Selenium	0.50	0.40	0.10	mg/L
7440-22-4	Silver	0.51	0.10	0.025	mg/L
7440-28-0	Thallium	0.50	0.20	0.050	mg/L
7440-62-2	Vanadium	1.18	0.20	0.050	mg/L
7440-66-6	Zinc	0.49	0.20	0.050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2013 13:10	512143	SW-846 3005 Dissolved	100	07/26/2013 17:27	BAM	512529

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	6460	100	25.0	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/23/2013 22:31	AEL	512294

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	123	25.0	1.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231907	**TRIP BLANK**	Water	07/22/2013 00:00	07/23/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 19:45	CEK	512414

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.32J**	**5.00**	**0.193**	**ug/L**
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307231907	**TRIP BLANK**	Water	07/22/2013 00:00	07/23/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 19:45	CEK	512414

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	52.5	ug/L	105	84 - 120
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	52.1	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.1	ug/L	100	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch	512414	**Client ID**	MB512414			LCS512414			LCSD512414		
Prep Batch	N/A	**GCAL ID**	1217152			1217153			1217154		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/25/2013 11:21			07/25/2013 09:14			07/25/2013 09:37		
		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	0.193U		0.193	50.0	53.4	107	59 - 134	49.9	100	7	30
74-97-5	Bromochloromethane	0.127U		0.127	50.0	55.2	110	78 - 112	54.4	109	1	30
75-27-4	Bromodichloromethane	0.083U		0.083	50.0	51.0	102	76 - 116	52.6	105	3	30
75-25-2	Bromoform	0.215U		0.215	50.0	55.0	110	68 - 128	53.3	107	3	30
74-83-9	Bromomethane	0.427U		0.427	50.0	42.9	86	55 - 151	44.4	89	3	30
75-15-0	Carbon disulfide	0.190U		0.190	50.0	45.9	92	67 - 147	47.4	95	3	30
56-23-5	Carbon tetrachloride	0.248U		0.248	50.0	49.2	98	74 - 139	48.6	97	1	30
75-00-3	Chloroethane	0.235U		0.235	50.0	47.7	95	54 - 166	48.0	96	1	30
136777-61-2	m,p-Xylene	0.123U		0.123	100	101	101	83 - 121	102	102	1	30
67-66-3	Chloroform	0.155U		0.155	50.0	49.6	99	85 - 123	49.3	99	1	30
74-87-3	Chloromethane	0.144U		0.144	50.0	53.5	107	55 - 173	56.4	113	5	30
124-48-1	Dibromochloromethane	0.054U		0.054	50.0	54.1	108	74 - 116	53.9	108	0	30
74-95-3	Dibromomethane	0.211U		0.211	50.0	51.6	103	81 - 116	52.1	104	1	30
75-71-8	Dichlorodifluoromethane	0.145U		0.145	50.0	48.0	96	34 - 158	49.5	99	3	30
75-34-3	1,1-Dichloroethane	0.171U		0.171	50.0	49.6	99	82 - 127	48.6	97	2	30
107-06-2	1,2-Dichloroethane	0.116U		0.116	50.0	51.1	102	76 - 122	49.5	99	3	30
156-59-2	cis-1,2-Dichloroethene	0.103U		0.103	50.0	49.7	99	81 - 114	48.9	98	2	30
156-60-5	trans-1,2-Dichloroethene	0.077U		0.077	50.0	49.2	98	82 - 126	49.9	100	1	30
75-09-2	Methylene chloride	0.149U		0.149	50.0	50.0	100	69 - 125	49.3	99	1	30
78-87-5	1,2-Dichloropropane	0.150U		0.150	50.0	51.3	103	81 - 120	52.8	106	3	30
10061-01-5	cis-1,3-Dichloropropene	0.124U		0.124	50.0	50.8	102	83 - 119	52.8	106	4	30
10061-02-6	trans-1,3-Dichloropropene	0.128U		0.128	50.0	52.6	105	87 - 123	53.9	108	2	30
100-41-4	Ethylbenzene	0.109U		0.109	50.0	50.8	102	87 - 118	49.7	99	2	30
591-78-6	2-Hexanone	0.122U		0.122	50.0	50.7	101	58 - 125	48.7	97	4	30
98-82-8	Isopropylbenzene (Cumene)	0.130U		0.130	50.0	52.5	105	87 - 131	51.4	103	2	30
78-93-3	2-Butanone	0.142U		0.142	50.0	52.5	105	61 - 127	51.0	102	3	30
74-88-4	Methyl iodide	0.084U		0.084	50.0	52.3	105	72 - 125	55.1	110	5	30
108-10-1	4-Methyl-2-pentanone	0.120U		0.120	50.0	51.3	103	62 - 125	49.4	99	4	30
103-65-1	n-Propylbenzene	0.727U		0.727	50.0	48.0	96	86 - 125	47.5	95	1	30
100-42-5	Styrene	0.089U		0.089	50.0	52.2	104	78 - 118	51.3	103	2	30
127-18-4	Tetrachloroethene	0.193U		0.193	50.0	52.4	105	80 - 131	54.0	108	3	30
630-20-6	1,1,1,2-Tetrachloroethane	0.120U		0.120	50.0	53.7	107	81 - 119	53.2	106	1	30
79-34-5	1,1,2,2-Tetrachloroethane	0.109U		0.109	50.0	47.4	95	71 - 120	46.8	94	1	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	512414	**Client ID**	MB512414			LCS512414			LCSD512414		
Prep Batch	N/A	**GCAL ID**	1217152			1217153			1217154		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/25/2013 11:21			07/25/2013 09:14			07/25/2013 09:37		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
120-82-1	1,2,4-Trichlorobenzene	0.105U	0.105	50.0	51.9	104	68 - 123	53.3	107	3	30
71-55-6	1,1,1-Trichloroethane	0.123U	0.123	50.0	51.4	103	79 - 133	51.9	104	1	30
79-00-5	1,1,2-Trichloroethane	0.159U	0.159	50.0	51.3	103	80 - 114	51.1	102	0	30
75-69-4	Trichlorofluoromethane	0.157U	0.157	50.0	50.2	100	66 - 156	51.7	103	3	30
96-18-4	1,2,3-Trichloropropane	0.065U	0.065	50.0	49.0	98	77 - 115	47.8	96	2	30
95-63-6	1,2,4-Trimethylbenzene	0.084U	0.084	50.0	48.7	97	82 - 120	50.2	100	3	30
108-67-8	1,3,5-Trimethylbenzene	0.066U	0.066	50.0	47.4	95	83 - 123	47.8	96	1	30
75-01-4	Vinyl chloride	0.127U	0.127	50.0	49.4	99	57 - 153	50.3	101	2	30
95-47-6	o-Xylene	0.055U	0.055	50.0	51.5	103	83 - 121	50.7	101	2	30
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	0.194	50.0	53.1	106	61 - 118	52.0	104	2	30
106-93-4	1,2-Dibromoethane	0.102U	0.102	50.0	51.7	103	80 - 115	51.5	103	0	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078	50.0	50.6	101	75 - 116	49.5	99	2	30
540-59-0	1,2-Dichloroethene(Total)	0.180U	0.180	100	98.9	99	74 - 128	98.8	99	0	30
99-87-6	4-Isopropyltoluene	0.070U	0.070	50.0	49.5	99	83 - 125	50.8	102	3	30
1330-20-7	Xylene (total)	0.179U	0.179	150	153	102	74 - 127	152	101	1	30
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	0.264	50.0	51.0	102	51 - 137	48.9	98	4	30
594-20-7	2,2-Dichloropropane	0.170U	0.170	50.0	52.5	105	77 - 138	53.4	107	2	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158	50.0	50.0	100	74 - 139	52.8	106	5	30
563-58-6	1,1-Dichloropropene	0.052U	0.052	50.0	50.4	101	87 - 127	50.6	101	0	30
142-28-9	1,3-Dichloropropane	0.059U	0.059	50.0	50.3	101	81 - 113	50.0	100	1	30
108-86-1	Bromobenzene	0.145U	0.145	50.0	47.3	95	83 - 115	46.1	92	3	30
95-49-8	2-Chlorotoluene	0.080U	0.080	50.0	46.8	94	81 - 121	47.1	94	1	30
106-43-4	4-Chlorotoluene	0.124U	0.124	50.0	49.6	99	84 - 120	49.6	99	0	30
98-06-6	tert-Butylbenzene	0.087U	0.087	50.0	49.3	99	83 - 126	48.5	97	2	30
135-98-8	sec-Butylbenzene	0.107U	0.107	50.0	50.2	100	86 - 127	51.6	103	3	30
541-73-1	1,3-Dichlorobenzene	0.138U	0.138	50.0	49.7	99	86 - 115	51.1	102	3	30
106-46-7	1,4-Dichlorobenzene	0.083U	0.083	50.0	48.1	96	87 - 113	49.1	98	2	30
104-51-8	n-Butylbenzene	0.123U	0.123	50.0	48.7	97	84 - 124	50.0	100	3	30
95-50-1	1,2-Dichlorobenzene	0.135U	0.135	50.0	50.2	100	85 - 115	49.6	99	1	30
87-68-3	Hexachlorobutadiene	0.265U	0.265	50.0	53.9	108	71 - 133	55.8	112	3	30
91-20-3	Naphthalene	0.176U	0.176	50.0	53.7	107	59 - 125	51.7	103	4	35
75-35-4	1,1-Dichloroethene	0.208U	0.208	50.0	48.5	97	75 - 133	49.3	99	2	20
71-43-2	Benzene	0.111U	0.111	50.0	49.5	99	83 - 124	49.8	100	1	20

GC/MS Volatiles Quality Control Summary

Analytical Batch 512414		**Client ID**	MB512414			LCS512414			LCSD512414		
Prep Batch N/A		**GCAL ID**	1217152			1217153			1217154		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/25/2013 11:21			07/25/2013 09:14			07/25/2013 09:37		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
79-01-6	Trichloroethene	0.161U		0.161	50.0	51.6	103	85 - 124	51.5	103	0	20
108-88-3	Toluene	0.122U		0.122	50.0	48.7	97	86 - 116	49.4	99	1	20
108-90-7	Chlorobenzene	0.083U		0.083	50.0	50.5	101	87 - 115	49.6	99	2	20
Surrogate												
460-00-4	4-Bromofluorobenzene	53.4		107	50	55.7	111	84 - 120	53.6	107		
1868-53-7	Dibromofluoromethane	50.8		102	50	49.9	100	87 - 116	50.7	101		
2037-26-5	Toluene d8	52.5		105	50	49.2	98	86 - 112	50.3	101		
17060-07-0	1,2-Dichloroethane-d4	49.3		99	50	49.5	99	76 - 127	49.8	100		

Analytical Batch 512414		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21307231904			21307231905			21307231906		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/25/2013 12:48			07/25/2013 16:26			07/25/2013 16:48		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
630-20-6	1,1,1,2-Tetrachloroethane	0.00		0.120	50.0	51.6	103	81 - 119	51.3	103	1	10
71-55-6	1,1,1-Trichloroethane	0.00		0.123	50.0	50.1	100	79 - 133	51.4	103	3	11
79-34-5	1,1,2,2-Tetrachloroethane	0.00		0.109	50.0	53.8	108	71 - 120	50.8	102	6	11
79-00-5	1,1,2-Trichloroethane	0.00		0.159	50.0	50.6	101	80 - 114	50.7	101	0	11
75-34-3	1,1-Dichloroethane	0.00		0.171	50.0	46.9	94	82 - 127	47.7	95	2	10
75-35-4	1,1-Dichloroethene	0.00		0.208	50.0	50.9	102	75 - 133	49.7	99	2	13
563-58-6	1,1-Dichloropropene	0.00		0.052	50.0	48.6	97	87 - 127	49.0	98	1	10
96-18-4	1,2,3-Trichloropropane	0.00		0.065	50.0	53.8	108	77 - 115	51.3	103	5	12
120-82-1	1,2,4-Trichlorobenzene	0.00		0.105	50.0	48.4	97	68 - 123	45.5	91	6	11
95-63-6	1,2,4-Trimethylbenzene	0.00		0.084	50.0	45.7	91	82 - 120	43.7	87	4	10
96-12-8	1,2-Dibromo-3-chloropropane	0.00		0.194	50.0	68.3	**137***	61 - 118	64.8	**130***	5	15
106-93-4	1,2-Dibromoethane	0.00		0.102	50.0	53.6	107	80 - 115	53.0	106	1	10
95-50-1	1,2-Dichlorobenzene	0.00		0.135	50.0	47.3	95	85 - 115	44.8	90	5	9
107-06-2	1,2-Dichloroethane	0.00		0.116	50.0	49.7	99	76 - 122	49.8	100	0	11
540-59-0	1,2-Dichloroethene(Total)	0.00		0.180	100	95.3	95	74 - 128	97.3	97	2	30
78-87-5	1,2-Dichloropropane	0.00		0.150	50.0	50.1	100	81 - 120	50.2	100	0	11

GC/MS Volatiles Quality Control Summary

Analytical Batch 512414		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21307231904			21307231905			21307231906		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/25/2013 12:48			07/25/2013 16:26			07/25/2013 16:48		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
108-67-8	1,3,5-Trimethylbenzene		0.00	0.066	50.0	44.1	88	83 - 123	42.0	84	5	10
541-73-1	1,3-Dichlorobenzene		0.00	0.138	50.0	47.7	95	86 - 115	44.9	90	6	9
142-28-9	1,3-Dichloropropane		0.00	0.059	50.0	49.3	99	81 - 113	49.6	99	1	11
106-46-7	1,4-Dichlorobenzene		0.00	0.083	50.0	45.7	91	87 - 113	43.3	87	5	10
594-20-7	2,2-Dichloropropane		0.00	0.170	50.0	44.8	90	77 - 138	41.6	83	7	12
78-93-3	2-Butanone		0.00	0.142	50.0	55.6	111	61 - 127	58.9	118	6	13
95-49-8	2-Chlorotoluene		0.00	0.080	50.0	44.9	90	81 - 121	42.3	85	6	10
591-78-6	2-Hexanone		0.00	0.122	50.0	65.3	**131***	58 - 125	64.7	**129***	1	14
106-43-4	4-Chlorotoluene		0.00	0.124	50.0	48.0	96	84 - 120	45.1	90	6	10
99-87-6	4-Isopropyltoluene		0.00	0.070	50.0	44.7	89	83 - 125	41.8	84	7	9
108-10-1	4-Methyl-2-pentanone		0.00	0.120	50.0	66.4	**133***	62 - 125	66.9	**134***	1	13
67-64-1	Acetone		0.00	0.193	50.0	46.0	92	59 - 134	49.9	100	8	14
71-43-2	Benzene		0.00	0.111	50.0	48.6	97	83 - 124	48.8	98	0	11
108-86-1	Bromobenzene		0.00	0.145	50.0	44.8	90	83 - 115	42.0	84	6	10
74-97-5	Bromochloromethane		0.00	0.127	50.0	52.2	104	78 - 112	53.6	107	3	10
75-27-4	Bromodichloromethane		0.00	0.083	50.0	51.5	103	76 - 116	52.1	104	1	10
75-25-2	Bromoform		0.00	0.215	50.0	56.0	112	68 - 128	56.6	113	1	11
74-83-9	Bromomethane		0.00	0.427	50.0	44.7	89	55 - 151	45.6	91	2	21
75-15-0	Carbon disulfide		0.00	0.190	50.0	47.4	95	67 - 147	47.3	95	0	12
56-23-5	Carbon tetrachloride		0.00	0.248	50.0	48.6	97	74 - 139	49.0	98	1	13
108-90-7	Chlorobenzene		0.00	0.083	50.0	47.9	96	87 - 115	47.2	94	1	9
75-00-3	Chloroethane		0.00	0.235	50.0	32.7	65	54 - 166	33.4	67	2	20
67-66-3	Chloroform		0.784	0.155	50.0	48.7	96	85 - 123	49.3	97	1	10
74-87-3	Chloromethane		0.00	0.144	50.0	51.8	104	55 - 173	50.0	100	4	22
124-48-1	Dibromochloromethane		0.00	0.054	50.0	53.0	106	74 - 116	53.5	107	1	11
74-95-3	Dibromomethane		0.00	0.211	50.0	51.8	104	81 - 116	52.5	105	1	10
75-71-8	Dichlorodifluoromethane		0.00	0.145	50.0	46.2	92	34 - 158	46.5	93	1	22
100-41-4	Ethylbenzene		0.00	0.109	50.0	46.8	94	87 - 118	46.2	92	1	10
87-68-3	Hexachlorobutadiene		0.00	0.265	50.0	47.9	96	71 - 133	44.7	89	7	12
98-82-8	Isopropylbenzene (Cumene)		0.00	0.130	50.0	48.0	96	87 - 131	48.5	97	1	10
74-88-4	Methyl iodide		0.00	0.084	50.0	54.6	109	72 - 125	49.3	99	10	11
75-09-2	Methylene chloride		0.00	0.149	50.0	47.6	95	69 - 125	48.4	97	2	11
91-20-3	Naphthalene		0.00	0.176	50.0	56.5	113	59 - 125	54.5	109	4	15

GC/MS Volatiles Quality Control Summary

Analytical Batch	512414	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch	N/A	**GCAL ID**	21307231904			21307231905			21307231906		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/25/2013 12:48			07/25/2013 16:26			07/25/2013 16:48		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-42-5	Styrene		0.00	0.089	50.0	44.7	89	78 - 118	44.8	90	0	11
127-18-4	Tetrachloroethene		0.00	0.193	50.0	50.0	100	80 - 131	49.1	98	2	12
108-88-3	Toluene		0.00	0.122	50.0	49.0	98	86 - 116	47.2	94	4	10
79-01-6	Trichloroethene		0.00	0.161	50.0	49.5	99	85 - 124	48.0	96	3	10
75-69-4	Trichlorofluoromethane		0.00	0.157	50.0	52.4	105	66 - 156	51.7	103	1	15
76-13-1	Trichlorotrifluoroethane		0.00	0.158	50.0	51.1	102	74 - 139	50.4	101	1	13
75-01-4	Vinyl chloride		0.00	0.127	50.0	51.3	103	57 - 153	50.7	101	1	22
1330-20-7	Xylene (total)		0.00	0.179	150	143	95	74 - 127	144	96	1	30
156-59-2	cis-1,2-Dichloroethene		0.00	0.103	50.0	47.7	95	81 - 114	48.7	97	2	10
10061-01-5	cis-1,3-Dichloropropene		0.00	0.124	50.0	50.8	102	83 - 119	50.5	101	1	10
136777-61-2	m,p-Xylene		0.00	0.123	100	95.8	96	83 - 121	95.1	95	1	10
104-51-8	n-Butylbenzene		0.00	0.123	50.0	43.7	87	84 - 124	41.4	**83***	5	10
103-65-1	n-Propylbenzene		0.00	0.727	50.0	44.5	89	86 - 125	41.2	**82***	8	10
95-47-6	o-Xylene		0.00	0.055	50.0	47.6	95	83 - 121	49.1	98	3	10
135-98-8	sec-Butylbenzene		0.00	0.107	50.0	46.3	93	86 - 127	42.7	**85***	8	10
1634-04-4	tert-Butyl methyl ether (MTBE)		0.00	0.078	50.0	49.7	99	75 - 116	51.1	102	3	10
98-06-6	tert-Butylbenzene		0.00	0.087	50.0	46.0	92	83 - 126	42.9	86	7	10
156-60-5	trans-1,2-Dichloroethene		0.00	0.077	50.0	47.6	95	82 - 126	48.6	97	2	10
10061-02-6	trans-1,3-Dichloropropene		0.00	0.128	50.0	52.3	105	87 - 123	52.7	105	1	10
110-57-6	trans-1,4-Dichloro-2-butene		0.00	0.264	50.0	55.5	111	51 - 137	52.9	106	5	24
Surrogate												
460-00-4	4-Bromofluorobenzene		51.6	103	50	53.7	107	84 - 120	55.9	112		
1868-53-7	Dibromofluoromethane		51.4	103	50	50.8	102	87 - 116	52.5	105		
2037-26-5	Toluene d8		51.4	103	50	50.7	101	86 - 112	50.8	102		
17060-07-0	1,2-Dichloroethane-d4		51.6	103	50	49	98	76 - 127	51.4	103		

Inorganics Quality Control Summary

Analytical Batch	512397	**Client ID**	MB512290	LCS512290
Prep Batch	512290	**GCAL ID**	1216412	1216413
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	07/24/2013 14:10	07/24/2013 14:10
		Analytical Date	07/25/2013 11:53	07/25/2013 11:54
		Matrix	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000068U	0.000068	0.0050	0.0048	96	88 - 111

Analytical Batch	512397	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	512290	**GCAL ID**	21307231904	21307231905	21307231906
Prep Method	SW-846 7470A Dissolved	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	07/24/2013 14:10	07/24/2013 14:10	07/24/2013 14:10
		Analytical Date	07/25/2013 11:56	07/25/2013 11:59	07/25/2013 12:03
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.0	0.000068	0.0050	0.0046	93	88 - 111	0.0045	89	4	10

Inorganics Quality Control Summary

Analytical Batch	512397	**Client ID**	MB512290			LCS512290		
Prep Batch	512290	**GCAL ID**	1216412			1216413		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	07/24/2013 14:10			07/24/2013 14:10		
		Analytical Date	07/25/2013 11:53			07/25/2013 11:54		
		Matrix	Water			Water		
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.000068U	0.000068	0.0050	0.0048	96	88 - 111

Analytical Batch	512397	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD			
Prep Batch	512290	**GCAL ID**	21307231904			21307231905			21307231906			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	07/24/2013 14:10			07/24/2013 14:10			07/24/2013 14:10			
		Analytical Date	07/25/2013 11:58			07/25/2013 12:01			07/25/2013 12:05			
		Matrix	Water			Water			Water			
SW-846 7470A Water			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.0	0.000068	0.0050	0.0040	80	80 - 120	0.0041	82	3	10

Inorganics Quality Control Summary

Analytical Batch	512445	**Client ID**	MB512143	LCS512143
Prep Batch	512143	**GCAL ID**	1215806	1215807
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	07/24/2013 13:10	07/24/2013 13:10
		Analytical Date	07/26/2013 11:33	07/26/2013 11:41
		Matrix	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.050U	0.050	5.00	5.09	102	80 - 120
7440-36-0	Antimony	0.015U	0.015	0.50	0.49	99	80 - 120
7440-38-2	Arsenic	0.0050U	0.0050	0.50	0.49	98	80 - 120
7440-39-3	Barium	0.0025U	0.0025	0.50	0.51	101	80 - 120
7440-41-7	Beryllium	0.0010U	0.0010	0.50	0.50	100	80 - 120
7440-43-9	Cadmium	0.0013U	0.0013	0.50	0.51	102	80 - 120
7440-70-2	Calcium	0.20U	0.20	5.00	5.06	101	80 - 120
7440-47-3	Chromium	0.0025U	0.0025	0.50	0.50	100	80 - 120
7440-48-4	Cobalt	0.0025U	0.0025	0.50	0.50	100	80 - 120
7440-50-8	Copper	0.0050U	0.0050	0.50	0.51	102	80 - 120
7439-89-6	Iron	0.050U	0.050	5.00	5.11	102	80 - 120
7439-92-1	Lead	0.0038U	0.0038	0.50	0.50	100	80 - 120
7439-95-4	Magnesium	0.050U	0.050	5.00	5.06	101	80 - 120
7439-96-5	Manganese	0.0038U	0.0038	0.50	0.51	102	80 - 120
7440-02-0	Nickel	0.010U	0.010	0.50	0.51	102	80 - 120
7440-09-7	Potassium	0.13U	0.13	10.0	10.2	102	80 - 120
7782-49-2	Selenium	0.010U	0.010	0.50	0.51	102	80 - 120
7440-22-4	Silver	0.0025U	0.0025	0.50	0.51	102	80 - 120
7440-23-5	Sodium	0.25U	0.25	20.0	21.0	105	80 - 120
7440-28-0	Thallium	0.0050U	0.0050	0.50	0.50	100	80 - 120
7440-62-2	Vanadium	0.0050U	0.0050	0.50	0.50	100	80 - 120
7440-66-6	Zinc	0.0050U	0.0050	0.50	0.51	101	80 - 120

Inorganics Quality Control Summary

Analytical Batch	512445	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	512143	**GCAL ID**	21307231904	21307231905	21307231906
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/24/2013 13:10	07/24/2013 13:10	07/24/2013 13:10
		Analytical Date	07/25/2013 16:05	07/25/2013 16:12	07/25/2013 16:19
		Matrix	Water	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.50	5.00	5.00	100	80 - 120	5.24	105	5	20
7440-36-0	Antimony	0.032	0.15	0.50	0.53	101	80 - 120	0.54	102	1	20
7440-38-2	Arsenic	0.022	0.050	0.50	0.56	107	80 - 120	0.52	99	7	20
7440-39-3	Barium	0.011	0.025	0.50	0.53	103	80 - 120	0.53	103	0	20
7440-41-7	Beryllium	0.0	0.010	0.50	0.50	100	80 - 120	0.49	99	1	20
7440-43-9	Cadmium	0.0	0.013	0.50	0.50	99	80 - 120	0.49	99	1	20
7440-70-2	Calcium	583	2.00	5.00	602	**383***	80 - 120	590	**139***	2	20
7440-47-3	Chromium	0.0075	0.025	0.50	0.51	100	80 - 120	0.51	100	0	20
7440-48-4	Cobalt	0.0	0.025	0.50	0.49	98	80 - 120	0.49	98	0	20
7440-50-8	Copper	0.19	0.050	0.50	0.71	103	80 - 120	0.72	105	2	20
7439-89-6	Iron	0.0	0.50	5.00	4.75	95	80 - 120	4.67	93	2	20
7439-92-1	Lead	0.0	0.038	0.50	0.47	94	80 - 120	0.46	93	1	20
7439-95-4	Magnesium	1230	0.50	5.00	1260	**632***	80 - 120	1240	**145***	2	20
7439-96-5	Manganese	0.0	0.038	0.50	0.47	94	80 - 120	0.47	93	1	20
7440-02-0	Nickel	0.0	0.10	0.50	0.51	101	80 - 120	0.50	101	0	20
7440-09-7	Potassium	31.0	1.25	10.0	41.0	99	80 - 120	40.4	94	1	20
7782-49-2	Selenium	0.0	0.10	0.50	0.52	104	80 - 120	0.50	99	4	20
7440-22-4	Silver	0.0026	0.025	0.50	0.51	102	80 - 120	0.51	101	1	20
7440-28-0	Thallium	0.035	0.050	0.50	0.51	96	80 - 120	0.50	92	3	20
7440-62-2	Vanadium	0.65	0.050	0.50	1.17	104	80 - 120	1.18	107	1	20
7440-66-6	Zinc	0.0	0.050	0.50	0.49	97	80 - 120	0.49	97	0	20

Analytical Batch	512529	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	512143	**GCAL ID**	21307231904	21307231905	21307231906
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/24/2013 13:10	07/24/2013 13:10	07/24/2013 13:10
		Analytical Date	07/26/2013 17:12	07/26/2013 17:20	07/26/2013 17:27
		Matrix	Water	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	6430	25.0	20.0	6630	**971***	80 - 120	6460	**141***	3	20

General Chemistry Quality Control Summary

Analytical Batch 512286	**Client ID**	MB512286			LCS512286		
Prep Batch N/A	**GCAL ID**	1216397			1216398		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/23/2013 16:15			07/23/2013 16:15		
	Matrix	Water			Water		
SM 2540 C - 1997		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	992	99	90 - 110

Analytical Batch 512286	**Client ID**	BV-14		1216062DUP		
Prep Batch N/A	**GCAL ID**	21307223801		1216399		
	Sample Type	SAMPLE		DUP		
	Analytical Date	07/23/2013 16:15		07/23/2013 16:15		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	434	4.39	424	2	5

Analytical Batch 512286	**Client ID**	MW-08-06		1216257DUP		
Prep Batch N/A	**GCAL ID**	21307231904		1216400		
	Sample Type	SAMPLE		DUP		
	Analytical Date	07/23/2013 16:15		07/23/2013 16:15		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	25300	4.39	24600	3	5

Analytical Batch 512404	**Client ID**	MB512404			LCS512404		
Prep Batch N/A	**GCAL ID**	1217127			1217128		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/25/2013 10:50			07/25/2013 10:50		
	Matrix	Water			Water		
SM 2540 C - 1997		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	1060	106	90 - 110

General Chemistry Quality Control Summary

Analytical Batch 512404	**Client ID**	MW-08-04		1216725DUP		
Prep Batch N/A	**GCAL ID**	21307240701		1217129		
	Sample Type	SAMPLE		DUP		
	Analytical Date	07/25/2013 10:50		07/25/2013 10:50		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	5590	4.39	5590	0	5

Analytical Batch 512404	**Client ID**	U43010B		1216201DUP		
Prep Batch N/A	**GCAL ID**	21307230603		1217459		
	Sample Type	SAMPLE		DUP		
	Analytical Date	07/25/2013 10:50		07/25/2013 10:50		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	4650	4.39	4660	0	5

General Chemistry Quality Control Summary

Analytical Batch 512294	**Client ID**	MB512294			LCS512294		
Prep Batch N/A	**GCAL ID**	1216422			1216423		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/23/2013 18:10			07/23/2013 18:28		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.020U	0.020	2.50	2.36	95	80 - 120

Analytical Batch 512294	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD			
Prep Batch N/A	**GCAL ID**	21307231904			21307231905			21307231906			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	07/23/2013 21:56			07/23/2013 22:14			07/23/2013 22:31			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		13.2	1.00	125	127	91	75 - 125	123	88	3	25

NATIONVIEW / 4771 / 213072319 / 8/1/13

NV Project No: 10-0004

COC Number(1): 07222013-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q7)

Client Name: USACE Omaha District

Collected by: Tony Lucero / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)	Nitrate (300/9056)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	
								Sample Analysis Requested (5)									Quality Assurance Samples (6)			
~~SD08-MW13~~ S10-MW06 *		22-07-2013	900	-	N		WG		Ξ	Ξ	Ξ	Ξ	Ξ				per Brian	Parrish 7/25 SH		1
~~SD08-MW13-A~~ S10-MW06-A *		22-07-2013	900	-	FD		WG		Ξ	Ξ	Ξ	Ξ	Ξ				per Brian	Parrish 7/25 SH		2
SD08-MW12		22-07-2013	1020	-	N		WG		Ξ	Ξ	Ξ	Ξ	Ξ							3
MW-08-06		22-07-2013	1100		N		WG		Ξ	Ξ	Ξ	Ξ	Ξ							4
MW-08-06-MS		22-07-2013	1100		MS		WG		Ξ	Ξ	Ξ	Ξ *	Ξ				removed per client SH 7/24			5
MW-08-06-MSD		22-07-2013	1100	-	MSD		WG		Ξ	Ξ	Ξ	Ξ *	Ξ				removed per client SH 7/24			6
Trip Blank				-					X*										HA3151020	7
				-																
				-																
				-																
				-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

* added per client SH 7/23 email confirmation

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	07/22/2013	1235	1. FedEx	7/22/13	
2. FedEx	7/23/13	10:30	2. [illegible]	7/23/13	10:35
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.: 5.4 E 22

Method of Shipment: Fed Ex Airbill Number: 796283983410

Analytical Lab: GCAL Delivery Location: Baton Rogue, LA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-c)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

213072319

SAMPLE DELIVERY GROUP	213072319
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile Number 204817	**Received By** Saucier, Charlotte
Line Item(s) 3 - SD-08	**Receive Date(s)** 07/23/13

CHECKLIST

	Yes	No	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☑	☐	☐
Was preservative added to any container at the lab?	☐	☑	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☑	☐	☐
Do all sample labels match the Chain of Custody?	☑	☐	☐
Did the Chain of Custody list the sampling technician?	☑	☐	☐
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑	☐	☐

COOLERS

Airbill	Temp(oC)
796283983410	5.4 (E22)

DISCREPANCIES

None

LABORATORY PRESERVATIONS

None

NOTES

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 07/30/2013

GCAL Report 213072407

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450 Ext. 104
Attn	Jim Moore

Project Holloman AFB

CASE NARRATIVE

Client: NationView LLC **Report:** 213072407

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 512531, the LCS and/or LCSD recoveries are above the upper control limit for 2-Hexanone, 4-Methyl-2-pentanone and Styrene. These compounds were not detected in the associated samples.

METALS

In the SW-846 6010C analysis, all samples had to be diluted to eliminate a chemical or physical interference and/or to bracket the concentration of target analytes within the linear dynamic range of the instrument. This is reflected in the elevated reporting limits.

In the SW-846 6010C analysis for prep batch 512427, the MS/MSD 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 7470A analysis for prep batch 512428, the MS/MSD recoveries are not applicable for Mercury because the sample concentration is greater than four times the spike concentration.

CONVENTIONALS

In the SM 2540 C - 1997 (TDS) analysis, sample 21307240702 (MW-08-08) had to be diluted prior to filtration in order not to exceed the maximum residue allowed by the method.

In the EPA 300.0 analysis, all sample had to be diluted in order to bracket the concentration within the calibration range of the instrument or to eliminate a chemical or physical interference. This is reflected in the elevated reporting limits.

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.

_____

Authorized Signature
GCAL REPORT 213072407

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240701	MW-08-04	Water	07/23/2013 08:35	07/24/2013 09:45
21307240702	MW-08-08	Water	07/23/2013 09:35	07/24/2013 09:45
21307240703	MW-08-05	Water	07/23/2013 10:25	07/24/2013 09:45
21307240704	S10-MW01	Water	07/23/2013 11:20	07/24/2013 09:45
21307240705	S10-MW01-A	Water	07/23/2013 11:20	07/24/2013 09:45
21307240706	TRIP BLANK	Water	07/23/2013 00:00	07/24/2013 09:45

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240701	**MW-08-04**	Water	07/23/2013 08:35	07/24/2013 09:45

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00010J	0.00020	0.000068	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.010	0.010	0.0025	mg/L
7440-70-2	Calcium	483	0.80	0.20	mg/L
7440-09-7	Potassium	15.5	0.50	0.13	mg/L
7440-62-2	Vanadium	0.025	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	Magnesium	292	2.00	0.50	mg/L
7440-23-5	Sodium	668	10.0	2.50	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5590	10.0	4.39	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	6.10	2.50	0.100	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240702	**MW-08-08**	Water	07/23/2013 09:35	07/24/2013 09:45

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	644	4.00	1.00	mg/L
7439-96-5	Manganese	0.095	0.075	0.019	mg/L
7440-09-7	Potassium	39.9	2.50	0.63	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240702	**MW-08-08**	Water	07/23/2013 09:35	07/24/2013 09:45

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	Magnesium	1770	4.00	1.00	mg/L
7440-23-5	Sodium	7730	20.0	5.00	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00010J	0.00020	0.000068	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00011J	0.00020	0.000068	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	39500	100	43.9	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	15.9J	25.0	1.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240703	**MW-08-05**	Water	07/23/2013 10:25	07/24/2013 09:45

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.016	0.010	0.0025	mg/L
7440-70-2	Calcium	544	0.80	0.20	mg/L
7439-96-5	Manganese	0.016	0.015	0.0038	mg/L
7440-09-7	Potassium	6.90	0.50	0.13	mg/L
7440-23-5	Sodium	77.8	1.00	0.25	mg/L
7440-62-2	Vanadium	0.0075J	0.020	0.0050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240703	**MW-08-05**	Water	07/23/2013 10:25	07/24/2013 09:45

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	Magnesium	58.4	2.00	0.50	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.351J	1.00	0.040	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2950	10.0	4.39	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240704	**S10-MW01**	Water	07/23/2013 11:20	07/24/2013 09:45

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0071J	0.010	0.0025	mg/L
7440-70-2	Calcium	461	0.80	0.20	mg/L
7439-96-5	Manganese	0.16	0.015	0.0038	mg/L
7440-09-7	Potassium	20.8	0.50	0.13	mg/L
7440-62-2	Vanadium	0.039	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	Magnesium	571	2.00	0.50	mg/L
7440-23-5	Sodium	2860	10.0	2.50	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	13700	10.0	4.39	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.10J	10.0	0.400	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240704	**S10-MW01**	Water	07/23/2013 11:20	07/24/2013 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	12.7	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	0.269J	5.00	0.150	ug/L
79-01-6	Trichloroethene	0.443J	5.00	0.161	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240705	**S10-MW01-A**	Water	07/23/2013 11:20	07/24/2013 09:45

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000090J	0.00020	0.000068	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0063J	0.010	0.0025	mg/L
7440-70-2	Calcium	443	0.80	0.20	mg/L
7439-96-5	Manganese	0.16	0.015	0.0038	mg/L
7440-09-7	Potassium	19.8	0.50	0.13	mg/L
7440-62-2	Vanadium	0.039	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	Magnesium	521	2.00	0.50	mg/L
7440-23-5	Sodium	2580	10.0	2.50	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	13100	10.0	4.39	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.23J	10.0	0.400	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	12.4	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	0.456J	5.00	0.150	ug/L
79-01-6	Trichloroethene	2.38J	5.00	0.161	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240701	**MW-08-04**	Water	07/23/2013 08:35	07/24/2013 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2013 19:27	JCK	512531

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240701	**MW-08-04**	Water	07/23/2013 08:35	07/24/2013 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2013 19:27	JCK	512531

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.7	ug/L	103	84 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	52.9	ug/L	106	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 15:35	512429	SW-846 7470A Dissolved	1	07/26/2013 13:08	AWG	512537

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512428	SW-846 7470A	1	07/25/2013 17:48	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00010J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240701	**MW-08-04**	Water	07/23/2013 08:35	07/24/2013 09:45

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512427	SW-846 3005 Dissolved	10	07/29/2013 17:16	BAM	512669

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-95-4	**Magnesium**	**292**	**2.00**	**0.50**	**mg/L**
7440-23-5	**Sodium**	**668**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512427	SW-846 3005 Dissolved	1	07/29/2013 19:18	BAM	512669

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	Arsenic	0.0050U	0.020	0.0050	mg/L
7440-39-3	**Barium**	**0.010**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**483**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	Copper	0.0050U	0.020	0.0050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-96-5	Manganese	0.0038U	0.015	0.0038	mg/L
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**15.5**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.025**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 10:50	DJH	512404

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5590**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	07/24/2013 17:36	MCP	512358

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**6.10**	**2.50**	**0.100**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240702	**MW-08-08**	Water	07/23/2013 09:35	07/24/2013 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2013 19:50	JCK	512531

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240702	**MW-08-08**	Water	07/23/2013 09:35	07/24/2013 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2013 19:50	JCK	512531

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.6	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	52.4	ug/L	105	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.6	ug/L	99	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 15:35	512429	SW-846 7470A Dissolved	1	07/26/2013 13:10	AWG	512537

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00010J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512428	SW-846 7470A	1	07/25/2013 17:50	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00011J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240702	**MW-08-08**	Water	07/23/2013 09:35	07/24/2013 09:45

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512427	SW-846 3005 Dissolved	20	07/29/2013 18:57	BAM	512669

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	1.00U	4.00	1.00	mg/L
7439-95-4	**Magnesium**	**1770**	**4.00**	**1.00**	**mg/L**
7440-23-5	**Sodium**	**7730**	**20.0**	**5.00**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512427	SW-846 3005 Dissolved	5	07/29/2013 19:53	BAM	512669

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.25U	1.00	0.25	mg/L
7440-36-0	Antimony	0.075U	0.30	0.075	mg/L
7440-38-2	Arsenic	0.025U	0.10	0.025	mg/L
7440-39-3	Barium	0.013U	0.050	0.013	mg/L
7440-41-7	Beryllium	0.0050U	0.020	0.0050	mg/L
7440-43-9	Cadmium	0.0063U	0.025	0.0063	mg/L
7440-70-2	**Calcium**	**644**	**4.00**	**1.00**	**mg/L**
7440-47-3	Chromium	0.013U	0.050	0.013	mg/L
7440-48-4	Cobalt	0.013U	0.050	0.013	mg/L
7440-50-8	Copper	0.025U	0.10	0.025	mg/L
7439-92-1	Lead	0.019U	0.075	0.019	mg/L
7439-96-5	**Manganese**	**0.095**	**0.075**	**0.019**	**mg/L**
7440-02-0	Nickel	0.050U	0.20	0.050	mg/L
7440-09-7	**Potassium**	**39.9**	**2.50**	**0.63**	**mg/L**
7782-49-2	Selenium	0.050U	0.20	0.050	mg/L
7440-22-4	Silver	0.013U	0.050	0.013	mg/L
7440-28-0	Thallium	0.025U	0.10	0.025	mg/L
7440-62-2	Vanadium	0.025U	0.10	0.025	mg/L
7440-66-6	Zinc	0.025U	0.10	0.025	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/25/2013 10:50	DJH	512404

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**39500**	**100**	**43.9**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/24/2013 18:28	MCP	512358

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**15.9J**	**25.0**	**1.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240703	**MW-08-05**	Water	07/23/2013 10:25	07/24/2013 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2013 20:13	JCK	512531

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240703	**MW-08-05**	Water	07/23/2013 10:25	07/24/2013 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2013 20:13	JCK	512531

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.3	ug/L	103	84 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	53.3	ug/L	107	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 15:35	512429	SW-846 7470A Dissolved	1	07/26/2013 13:12	AWG	512537

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512428	SW-846 7470A	1	07/25/2013 17:52	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240703	**MW-08-05**	Water	07/23/2013 10:25	07/24/2013 09:45

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512427	SW-846 3005 Dissolved	10	07/29/2013 17:55	BAM	512669

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-95-4	**Magnesium**	**58.4**	**2.00**	**0.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512427	SW-846 3005 Dissolved	1	07/29/2013 20:00	BAM	512669

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	Arsenic	0.0050U	0.020	0.0050	mg/L
7440-39-3	**Barium**	**0.016**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**544**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	Copper	0.0050U	0.020	0.0050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-96-5	**Manganese**	**0.016**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**6.90**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-23-5	**Sodium**	**77.8**	**1.00**	**0.25**	**mg/L**
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.0075J**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 10:50	DJH	512404

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2950**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	07/24/2013 18:46	MCP	512358

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.351J**	**1.00**	**0.040**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240704	**S10-MW01**	Water	07/23/2013 11:20	07/24/2013 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2013 20:36	JCK	512531

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**12.7**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**0.269J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240704	**S10-MW01**	Water	07/23/2013 11:20	07/24/2013 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2013 20:36	JCK	512531

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	**Trichloroethene**	**0.443J**	**5.00**	**0.161**	**ug/L**
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.1	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	49	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	52.6	ug/L	105	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.6	ug/L	97	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 15:35	512429	SW-846 7470A Dissolved	1	07/26/2013 11:54	AWG	512494

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512428	SW-846 7470A	1	07/25/2013 17:53	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240704	**S10-MW01**	Water	07/23/2013 11:20	07/24/2013 09:45

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512427	SW-846 3005 Dissolved	10	07/29/2013 18:02	BAM	512669

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-95-4	**Magnesium**	**571**	**2.00**	**0.50**	**mg/L**
7440-23-5	**Sodium**	**2860**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512427	SW-846 3005 Dissolved	1	07/29/2013 20:06	BAM	512669

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	Arsenic	0.0050U	0.020	0.0050	mg/L
7440-39-3	**Barium**	**0.0071J**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**461**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	Copper	0.0050U	0.020	0.0050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-96-5	**Manganese**	**0.16**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**20.8**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.039**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 10:50	DJH	512404

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**13700**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	07/24/2013 19:03	MCP	512358

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**4.10J**	**10.0**	**0.400**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240705	**S10-MW01-A**	Water	07/23/2013 11:20	07/24/2013 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2013 20:59	JCK	512531

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**12.4**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**0.456J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240705	**S10-MW01-A**	Water	07/23/2013 11:20	07/24/2013 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2013 20:59	JCK	512531

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	**Trichloroethene**	**2.38J**	**5.00**	**0.161**	**ug/L**
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	52.9	ug/L	106	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 15:35	512429	SW-846 7470A Dissolved	1	07/26/2013 13:13	AWG	512537

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.000090J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512428	SW-846 7470A	1	07/25/2013 17:55	AWG	512397

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240705	**S10-MW01-A**	Water	07/23/2013 11:20	07/24/2013 09:45

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512427	SW-846 3005 Dissolved	10	07/29/2013 18:22	BAM	512669

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-95-4	**Magnesium**	**521**	**2.00**	**0.50**	**mg/L**
7440-23-5	**Sodium**	**2580**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/25/2013 13:50	512427	SW-846 3005 Dissolved	1	07/29/2013 20:13	BAM	512669

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	Arsenic	0.0050U	0.020	0.0050	mg/L
7440-39-3	**Barium**	**0.0063J**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**443**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	Copper	0.0050U	0.020	0.0050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-96-5	**Manganese**	**0.16**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**19.8**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.039**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/25/2013 10:50	DJH	512404

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**13100**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	07/24/2013 19:20	MCP	512358

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**4.23J**	**10.0**	**0.400**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240706	**TRIP BLANK**	Water	07/23/2013 00:00	07/24/2013 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2013 21:21	JCK	512531

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307240706	**TRIP BLANK**	Water	07/23/2013 00:00	07/24/2013 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2013 21:21	JCK	512531

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	53.1	ug/L	106	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	47.8	ug/L	96	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch	512531	**Client ID**	MB512531			LCS512531			LCSD512531		
Prep Batch	N/A	**GCAL ID**	1217749			1217750			1217751		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/26/2013 15:47			07/26/2013 14:08			07/26/2013 21:44		
		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	0.193U	0.193		50.0	50.4	101	59 - 134	51.1	102	1	30
74-97-5	Bromochloromethane	0.127U	0.127		50.0	50.0	100	78 - 112	51.2	102	2	30
75-27-4	Bromodichloromethane	0.083U	0.083		50.0	49.8	100	76 - 116	51.0	102	2	30
75-25-2	Bromoform	0.215U	0.215		50.0	53.3	107	68 - 128	50.3	101	6	30
74-83-9	Bromomethane	0.427U	0.427		50.0	37.8	76	55 - 151	34.8	70	8	30
75-15-0	Carbon disulfide	0.190U	0.190		50.0	49.2	98	67 - 147	53.1	106	8	30
56-23-5	Carbon tetrachloride	0.248U	0.248		50.0	44.2	88	74 - 139	46.3	93	5	30
75-00-3	Chloroethane	0.235U	0.235		50.0	49.6	99	54 - 166	50.8	102	2	30
136777-61-2	m,p-Xylene	0.123U	0.123		100	113	113	83 - 121	113	113	0	30
67-66-3	Chloroform	0.155U	0.155		50.0	47.1	94	85 - 123	49.1	98	4	30
74-87-3	Chloromethane	0.144U	0.144		50.0	43.9	88	55 - 173	43.5	87	1	30
124-48-1	Dibromochloromethane	0.054U	0.054		50.0	53.2	106	74 - 116	50.4	101	5	30
74-95-3	Dibromomethane	0.211U	0.211		50.0	51.1	102	81 - 116	52.1	104	2	30
75-71-8	Dichlorodifluoromethane	0.145U	0.145		50.0	45.5	91	34 - 158	44.9	90	1	30
75-34-3	1,1-Dichloroethane	0.171U	0.171		50.0	49.5	99	82 - 127	51.8	104	5	30
107-06-2	1,2-Dichloroethane	0.116U	0.116		50.0	45.6	91	76 - 122	47.4	95	4	30
156-59-2	cis-1,2-Dichloroethene	0.103U	0.103		50.0	53.0	106	81 - 114	52.9	106	0	30
156-60-5	trans-1,2-Dichloroethene	0.077U	0.077		50.0	49.3	99	82 - 126	50.9	102	3	30
75-09-2	Methylene chloride	0.149U	0.149		50.0	49.7	99	69 - 125	52.4	105	5	30
78-87-5	1,2-Dichloropropane	0.150U	0.150		50.0	54.9	110	81 - 120	56.1	112	2	30
10061-01-5	cis-1,3-Dichloropropene	0.124U	0.124		50.0	55.4	111	83 - 119	56.1	112	1	30
10061-02-6	trans-1,3-Dichloropropene	0.128U	0.128		50.0	53.1	106	87 - 123	53.8	108	1	30
100-41-4	Ethylbenzene	0.109U	0.109		50.0	54.4	109	87 - 118	53.5	107	2	30
591-78-6	2-Hexanone	0.122U	0.122		50.0	66.5	**133***	58 - 125	60.4	121	10	30
98-82-8	Isopropylbenzene (Cumene)	0.130U	0.130		50.0	55.8	112	87 - 131	55.5	111	1	30
78-93-3	2-Butanone	0.142U	0.142		50.0	59.7	119	61 - 127	61.6	123	3	30
74-88-4	Methyl iodide	0.084U	0.084		50.0	47.8	96	72 - 125	48.4	97	1	30
108-10-1	4-Methyl-2-pentanone	0.120U	0.120		50.0	65.1	**130***	62 - 125	63.5	**127***	2	30
103-65-1	n-Propylbenzene	0.727U	0.727		50.0	53.3	107	86 - 125	53.3	107	0	30
100-42-5	Styrene	0.089U	0.089		50.0	61.0	**122***	78 - 118	59.5	**119***	2	30
127-18-4	Tetrachloroethene	0.193U	0.193		50.0	51.1	102	80 - 131	50.8	102	1	30
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	0.120		50.0	52.6	105	81 - 119	50.3	101	4	30
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	0.109		50.0	60.0	120	71 - 120	58.6	117	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	512531	**Client ID**	MB512531			LCS512531			LCSD512531		
Prep Batch	N/A	**GCAL ID**	1217749			1217750			1217751		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/26/2013 15:47			07/26/2013 14:08			07/26/2013 21:44		
		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	0.105U	0.105	50.0	61.2	122	68 - 123	55.7	111	9	30
71-55-6	1,1,1-Trichloroethane	0.123U	0.123	50.0	45.1	90	79 - 133	46.9	94	4	30
79-00-5	1,1,2-Trichloroethane	0.159U	0.159	50.0	54.8	110	80 - 114	53.0	106	3	30
75-69-4	Trichlorofluoromethane	0.157U	0.157	50.0	43.9	88	66 - 156	47.5	95	8	30
96-18-4	1,2,3-Trichloropropane	0.065U	0.065	50.0	54.9	110	77 - 115	55.9	112	2	30
95-63-6	1,2,4-Trimethylbenzene	0.084U	0.084	50.0	54.8	110	82 - 120	53.7	107	2	30
108-67-8	1,3,5-Trimethylbenzene	0.066U	0.066	50.0	53.0	106	83 - 123	53.0	106	0	30
75-01-4	Vinyl chloride	0.127U	0.127	50.0	43.3	87	57 - 153	45.2	90	4	30
95-47-6	o-Xylene	0.055U	0.055	50.0	59.7	119	83 - 121	58.6	117	2	30
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	0.194	50.0	57.2	114	61 - 118	51.7	103	10	30
106-93-4	1,2-Dibromoethane	0.102U	0.102	50.0	55.6	111	80 - 115	52.4	105	6	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078	50.0	52.3	105	75 - 116	49.8	100	5	30
540-59-0	1,2-Dichloroethene(Total)	0.180U	0.180	100	102	102	74 - 128	104	104	2	30
99-87-6	4-Isopropyltoluene	0.070U	0.070	50.0	55.3	111	83 - 125	54.7	109	1	30
1330-20-7	Xylene (total)	0.179U	0.179	150	173	115	74 - 127	172	115	1	30
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	0.264	50.0	53.9	108	51 - 137	52.2	104	3	30
594-20-7	2,2-Dichloropropane	0.170U	0.170	50.0	47.5	95	77 - 138	47.3	95	0	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158	50.0	47.9	96	74 - 139	50.7	101	6	30
563-58-6	1,1-Dichloropropene	0.052U	0.052	50.0	48.9	98	87 - 127	50.9	102	4	30
142-28-9	1,3-Dichloropropane	0.059U	0.059	50.0	55.0	110	81 - 113	52.9	106	4	30
108-86-1	Bromobenzene	0.145U	0.145	50.0	52.8	106	83 - 115	51.9	104	2	30
95-49-8	2-Chlorotoluene	0.080U	0.080	50.0	53.9	108	81 - 121	52.6	105	2	30
106-43-4	4-Chlorotoluene	0.124U	0.124	50.0	53.2	106	84 - 120	51.7	103	3	30
98-06-6	tert-Butylbenzene	0.087U	0.087	50.0	50.7	101	83 - 126	49.8	100	2	30
135-98-8	sec-Butylbenzene	0.107U	0.107	50.0	53.3	107	86 - 127	53.7	107	1	30
541-73-1	1,3-Dichlorobenzene	0.138U	0.138	50.0	56.2	112	86 - 115	54.9	110	2	30
106-46-7	1,4-Dichlorobenzene	0.083U	0.083	50.0	52.0	104	87 - 113	51.4	103	1	30
104-51-8	n-Butylbenzene	0.123U	0.123	50.0	55.0	110	84 - 124	55.6	111	1	30
95-50-1	1,2-Dichlorobenzene	0.135U	0.135	50.0	57.1	114	85 - 115	55.3	111	3	30
87-68-3	Hexachlorobutadiene	0.265U	0.265	50.0	51.7	103	71 - 133	51.6	103	0	30
91-20-3	Naphthalene	0.176U	0.176	50.0	55.6	111	59 - 125	48.9	98	13	35
75-35-4	1,1-Dichloroethene	0.208U	0.208	50.0	51.2	102	75 - 133	52.7	105	3	20
71-43-2	Benzene	0.111U	0.111	50.0	52.8	106	83 - 124	55.2	110	4	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	512531	**Client ID**	MB512531			LCS512531			LCSD512531		
Prep Batch	N/A	**GCAL ID**	1217749			1217750			1217751		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/26/2013 15:47			07/26/2013 14:08			07/26/2013 21:44		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
79-01-6	Trichloroethene	0.161U		0.161	50.0	52.4	105	85 - 124	53.9	108	3	20
108-88-3	Toluene	0.122U		0.122	50.0	51.9	104	86 - 116	51.6	103	1	20
108-90-7	Chlorobenzene	0.083U		0.083	50.0	53.5	107	87 - 115	53.0	106	1	20
Surrogate												
460-00-4	4-Bromofluorobenzene	51.2		102	50	52.3	105	84 - 120	50	100		
1868-53-7	Dibromofluoromethane	49.4		99	50	48.8	98	87 - 116	49.6	99		
2037-26-5	Toluene d8	52.4		105	50	48.1	96	86 - 112	46.6	93		
17060-07-0	1,2-Dichloroethane-d4	48.7		97	50	46.7	93	76 - 127	48.4	97		

Inorganics Quality Control Summary

Analytical Batch	512494	**Client ID**	MB512429		LCS512429		
Prep Batch	512429	**GCAL ID**	1217201		1217202		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	07/25/2013 15:35		07/25/2013 15:35		
		Analytical Date	07/26/2013 11:47		07/26/2013 11:49		
		Matrix	Water		Water		
SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000068U	0.000068	0.0050	0.0048	96	88 - 111

Analytical Batch	512494	**Client ID**	S10-MW01		1216728MS			1216728MSD			
Prep Batch	512429	**GCAL ID**	21307240704		1217203			1217204			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	07/25/2013 15:35		07/25/2013 15:35			07/25/2013 15:35			
		Analytical Date	07/26/2013 11:54		07/26/2013 11:56			07/26/2013 11:57			
		Matrix	Water		Water			Water			
SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.0	0.000068	0.0050	0.0044	88	80 - 120	0.0045	90	3	20

Inorganics Quality Control Summary

Analytical Batch	512397	**Client ID**	MB512428			LCS512428		
Prep Batch	512428	**GCAL ID**	1217197			1217198		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	07/25/2013 13:50			07/25/2013 13:50		
		Analytical Date	07/25/2013 17:06			07/25/2013 17:08		
		Matrix	Water			Water		
SW-846 7470A			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.000068U	0.000068	0.0050	0.0055	110	88 - 111

Analytical Batch	512397	**Client ID**	0356-19 19 DAY			1216945MS			1216945MSD			
Prep Batch	512428	**GCAL ID**	21307245702			1217199			1217200			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	07/25/2013 13:50			07/25/2013 13:50			07/25/2013 13:50			
		Analytical Date	07/25/2013 18:15			07/25/2013 18:17			07/25/2013 18:19			
		Matrix	Water			Water			Water			
SW-846 7470A			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		8.8	0.14	0.0050	8.5	**-6230***	80 - 120	8.6	**-3830***	1	10

Inorganics Quality Control Summary

Analytical Batch	512669	**Client ID**	MB512427	LCS512427
Prep Batch	512427	**GCAL ID**	1217193	1217194
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	07/25/2013 13:50	07/25/2013 13:50
		Analytical Date	07/29/2013 17:01	07/29/2013 17:09
		Matrix	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.050U	0.050	5.00	4.98	100	80 - 120
7440-36-0	Antimony	0.015U	0.015	0.50	0.52	103	80 - 120
7440-38-2	Arsenic	0.0050U	0.0050	0.50	0.55	109	80 - 120
7440-39-3	Barium	0.0025U	0.0025	0.50	0.52	104	80 - 120
7440-41-7	Beryllium	0.0010U	0.0010	0.50	0.51	103	80 - 120
7440-43-9	Cadmium	0.0013U	0.0013	0.50	0.53	107	80 - 120
7440-70-2	Calcium	0.25J	0.20	5.00	5.34	107	80 - 120
7440-47-3	Chromium	0.0025U	0.0025	0.50	0.51	103	80 - 120
7440-48-4	Cobalt	0.0025U	0.0025	0.50	0.53	106	80 - 120
7440-50-8	Copper	0.0050U	0.0050	0.50	0.49	97	80 - 120
7439-89-6	Iron	0.050U	0.050	5.00	4.79	96	80 - 120
7439-92-1	Lead	0.0038U	0.0038	0.50	0.54	107	80 - 120
7439-95-4	Magnesium	0.050U	0.050	5.00	5.53	111	80 - 120
7439-96-5	Manganese	0.0038U	0.0038	0.50	0.51	103	80 - 120
7440-02-0	Nickel	0.010U	0.010	0.50	0.53	106	80 - 120
7440-09-7	Potassium	0.13U	0.13	10.0	9.57	96	80 - 120
7782-49-2	Selenium	0.010U	0.010	0.50	0.56	111	80 - 120
7440-22-4	Silver	0.0025U	0.0025	0.50	0.49	98	80 - 120
7440-23-5	Sodium	0.25U	0.25	20.0	20.8	104	80 - 120
7440-28-0	Thallium	0.0050U	0.0050	0.50	0.51	102	80 - 120
7440-62-2	Vanadium	0.0050U	0.0050	0.50	0.51	102	80 - 120
7440-66-6	Zinc	0.0056J	0.0050	0.50	0.52	103	80 - 120

Inorganics Quality Control Summary

Analytical Batch	512669	**Client ID**	MW-08-04	1216725MS	1216725MSD
Prep Batch	512427	**GCAL ID**	21307240701	1217195	1217196
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/25/2013 13:50	07/25/2013 13:50	07/25/2013 13:50
		Analytical Date	07/29/2013 19:18	07/29/2013 19:25	07/29/2013 19:32
		Matrix	Water	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.050	5.00	4.85	97	80 - 120	4.76	95	2	20
7440-36-0	Antimony	0.0	0.015	0.50	0.54	109	80 - 120	0.55	110	1	20
7440-38-2	Arsenic	0.0	0.0050	0.50	0.54	107	80 - 120	0.55	111	3	20
7440-39-3	Barium	0.010	0.0025	0.50	0.50	98	80 - 120	0.50	98	0	20
7440-41-7	Beryllium	0.0	0.0010	0.50	0.50	99	80 - 120	0.50	100	1	20
7440-43-9	Cadmium	0.0	0.0013	0.50	0.46	91	80 - 120	0.47	93	2	20
7440-70-2	Calcium	483	0.20	5.00	448	**-705***	80 - 120	451	**-636***	1	20
7440-47-3	Chromium	0.0	0.0025	0.50	0.47	95	80 - 120	0.48	95	1	20
7440-48-4	Cobalt	0.0	0.0025	0.50	0.48	97	80 - 120	0.47	95	3	20
7440-50-8	Copper	0.0	0.0050	0.50	0.50	100	80 - 120	0.50	99	1	20
7439-92-1	Lead	0.0	0.0038	0.50	0.46	91	80 - 120	0.46	91	0	20
7439-96-5	Manganese	0.0	0.0038	0.50	0.49	98	80 - 120	0.49	98	0	20
7440-02-0	Nickel	0.0	0.010	0.50	0.46	91	80 - 120	0.46	92	1	20
7440-09-7	Potassium	15.5	0.13	10.0	26.0	106	80 - 120	25.3	98	3	20
7782-49-2	Selenium	0.0	0.010	0.50	0.52	104	80 - 120	0.53	107	3	20
7440-22-4	Silver	0.0	0.0025	0.50	0.51	103	80 - 120	0.51	102	1	20
7440-28-0	Thallium	0.0	0.0050	0.50	0.44	88	80 - 120	0.45	90	2	20
7440-62-2	Vanadium	0.025	0.0050	0.50	0.54	104	80 - 120	0.54	103	0	20
7440-66-6	Zinc	0.0	0.0050	0.50	0.49	99	80 - 120	0.50	100	1	20

Analytical Batch	512669	**Client ID**	MW-08-04	1216725MS	1216725MSD
Prep Batch	512427	**GCAL ID**	21307240701	1217195	1217196
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/25/2013 13:50	07/25/2013 13:50	07/25/2013 13:50
		Analytical Date	07/29/2013 17:16	07/29/2013 17:22	07/29/2013 17:29
		Matrix	Water	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-89-6	Iron	0.14	0.50	5.00	4.92	96	80 - 120	4.92	96	0	20
7439-95-4	Magnesium	292	0.50	5.00	292	**-11***	80 - 120	295	**59***	1	20
7440-23-5	Sodium	668	2.50	20.0	682	**70***	80 - 120	694	**129***	2	20

General Chemistry Quality Control Summary

Analytical Batch 512404	**Client ID**	MB512404			LCS512404		
Prep Batch N/A	**GCAL ID**	1217127			1217128		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/25/2013 10:50			07/25/2013 10:50		
	Matrix	Water			Water		
SM 2540 C - 1997		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	1060	106	90 - 110

Analytical Batch 512404	**Client ID**	MW-08-04		1216725DUP		
Prep Batch N/A	**GCAL ID**	21307240701		1217129		
	Sample Type	SAMPLE		DUP		
	Analytical Date	07/25/2013 10:50		07/25/2013 10:50		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	5590	4.39	5590	0	5

Analytical Batch 512404	**Client ID**	U43010B		1216201DUP		
Prep Batch N/A	**GCAL ID**	21307230603		1217459		
	Sample Type	SAMPLE		DUP		
	Analytical Date	07/25/2013 10:50		07/25/2013 10:50		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	4650	4.39	4660	0	5

General Chemistry Quality Control Summary

Analytical Batch 512358	**Client ID**	MB512358			LCS512358		
Prep Batch N/A	**GCAL ID**	1216906			1216907		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/24/2013 16:39			07/24/2013 17:19		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.020U	0.020	2.50	2.62	105	80 - 120

Analytical Batch 512358	**Client ID**	MW-08-04			1216725MS			1216725MSD			
Prep Batch N/A	**GCAL ID**	21307240701			1216908			1216909			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	07/24/2013 17:36			07/24/2013 17:54			07/24/2013 18:11			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	6.10	0.100	12.5	17.8	93	75 - 125	17.7	93	0	25

NATIONVIEW / 4771/213072407/8/2/13

NV Project No: 10-0004

COC Number(1): 07232013-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q7)

Client Name: USACE Omaha District

Collected by: Tony Lucero / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)	Nitrate (300/9056)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	
								Sample Analysis Requested (5)									Quality Assurance Samples (6)			
MW-08-04	MW-08-04	23-07-2013	835		N		WG	7	☒	☒	☒	☒	☒							1
MW-08-08	MW-08-08	23-07-2013	935		N		WG	7	☒	☒	☒	☒	☒							2
MW-08-05	MW-08-05	23-07-2013	1025		N		WG	7	☒	☒	☒	☒	☒							3
S10-MW01	S10-MW01	23-07-2013	1120		N		WG	7	☒	☒	☒	☒	☒							4
S10-MW01-A	S10-MW01-A	23-07-2013	1120		FD		WG	7	☒	☒	☒	☒	☒							5
TRIP BLANK					TB		WQ	3	X*										HA3151020	6
				-																
				-																
				-																
				-																

COMMENTS: Dissolved TAL Metals filtered in the field

* added per client (SH) 7/24

3.4 E24

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date Time	Received by (signed)	Date Time
1. Brian Parrish	07/23/2013 1400	1.	
2. Fed Ex		2. Ofuccer	7/24/13 945
3.		3.	

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	796294017033
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

213072407

SAMPLE DELIVERY GROUP	213072407
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile Number 204817	**Received By** Saucier, Charlotte
Line Item(s) 3 - SD-08	**Receive Date(s)** 07/24/13

CHECKLIST

Were all samples received using proper thermal preservation?	☑ Yes	☐ No	☐ NA
When used, were all custody seals intact?	☑ Yes	☐ No	☐ NA
Were all samples received in proper containers?	☑ Yes	☐ No	☐ NA
Were all samples received using proper chemical preservation?	☑ Yes	☐ No	☐ NA
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ NA
Were all containers received in good condition?	☑ Yes	☐ No	☐ NA
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ NA
Do all sample labels match the Chain of Custody?	☐ Yes	☑ No	☐ NA
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ NA
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑ Yes	☐ No	☐ NA

COOLERS

Airbill	Temp(oC)
7962 9401 7033	3.4 (E24)

DISCREPANCIES

21307240706 - TRIP BLANK
- Sample Discrepancy

LABORATORY PRESERVATIONS

None

NOTES

TRIP BLANK ANALYSIS NOT MARKED ON COC

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 08/09/2013

GCAL Report 213073002

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450 Ext. 104
Attn	Jim Moore

Project Holloman AFB

CASE NARRATIVE

Client: NationView LLC **Report:** 213073002

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 512809, the LCS/LCSD exhibited a marginal sporadic failure for Methyl Iodide. The LCS/LCSD RPDs are above the control limits for Bromomethane and Methyl Iodide.

METALS

In the SW-846 7470A analysis for prep batch 512738, the MSD and MS/MSD RPD recoveries are 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, all samples had to be diluted in order to bracket the concentration of Sodium within the linear dynamic range of the instrument.

In the SW-846 6010C Dissolved analysis for prep batch 512740, the MS/MSD recovery is outside the control limits for 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%. The MS/MSD recoveries are not applicable for Calcium, Magnesium and Sodium because the sample concentration is greater than four times the spike concentration.

CONVENTIONALS

In the EPA 300.0 analysis, all samples had to be diluted in order to bracket the concentration within the calibration range of the instrument or to eliminate a chemical or physical interference. This is reflected in the elevated reporting limit.

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.

_____

Authorized Signature
GCAL REPORT 213073002

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300201	MW08-03	Water	07/29/2013 08:15	07/30/2013 09:25
21307300202	MW08-01	Water	07/29/2013 09:10	07/30/2013 09:25
21307300203	MW08-02	Water	07/29/2013 10:05	07/30/2013 09:25
21307300204	MW08-07	Water	07/29/2013 11:00	07/30/2013 09:25
21307300205	SWMU183-MW03	Water	07/29/2013 11:45	07/30/2013 09:25
21307300206	TRIP BLANK	Water	07/29/2013 00:00	07/30/2013 09:25

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300201	**MW08-03**	Water	07/29/2013 08:15	07/30/2013 09:25

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0039J	0.010	0.0025	mg/L
7440-70-2	Calcium	458	0.80	0.20	mg/L
7440-09-7	Potassium	20.1	0.50	0.13	mg/L
7440-62-2	Vanadium	0.029	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	Magnesium	588	0.20	0.050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2520	10.0	2.50	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	10.8	10.0	0.400	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	11700	10.0	4.39	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300202	**MW08-01**	Water	07/29/2013 09:10	07/30/2013 09:25

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0089J	0.010	0.0025	mg/L
7440-70-2	Calcium	387	0.80	0.20	mg/L
7439-96-5	Manganese	2.47	0.015	0.0038	mg/L
7440-09-7	Potassium	6.20	0.50	0.13	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300202	**MW08-01**	Water	07/29/2013 09:10	07/30/2013 09:25

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	7.11	0.20	0.050	mg/L
7439-95-4	Magnesium	519	0.20	0.050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1780	10.0	2.50	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	45.4	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	6.72	5.00	0.150	ug/L
67-64-1	Acetone	4.78J	5.00	0.193	ug/L
71-43-2	Benzene	0.778J	5.00	0.111	ug/L
100-41-4	Ethylbenzene	0.473J	5.00	0.109	ug/L
135-98-8	sec-Butylbenzene	0.604J	5.00	0.107	ug/L
98-06-6	tert-Butylbenzene	0.984J	5.00	0.087	ug/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9100	10.0	4.39	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300203	**MW08-02**	Water	07/29/2013 10:05	07/30/2013 09:25

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.012	0.010	0.0025	mg/L
7440-70-2	Calcium	470	0.80	0.20	mg/L
7439-96-5	Manganese	1.08	0.015	0.0038	mg/L
7440-09-7	Potassium	3.78	0.50	0.13	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.90	0.20	0.050	mg/L
7439-95-4	Magnesium	155	0.20	0.050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300203	**MW08-02**	Water	07/29/2013 10:05	07/30/2013 09:25

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	193	10.0	2.50	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3710	10.0	4.39	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	10.8	5.00	0.116	ug/L
98-06-6	tert-Butylbenzene	0.349J	5.00	0.087	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300204	**MW08-07**	Water	07/29/2013 11:00	07/30/2013 09:25

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.025	0.020	0.0050	mg/L
7440-39-3	Barium	0.010	0.010	0.0025	mg/L
7439-96-5	Manganese	1.16	0.015	0.0038	mg/L
7440-09-7	Potassium	5.54	0.50	0.13	mg/L
7440-62-2	Vanadium	0.014J	0.020	0.0050	mg/L
7440-66-6	Zinc	0.0061J	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	545	0.80	0.20	mg/L
7439-95-4	Magnesium	168	0.20	0.050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	429	10.0	2.50	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.69J	5.00	0.200	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300204	**MW08-07**	Water	07/29/2013 11:00	07/30/2013 09:25

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	39.9	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	1.12J	5.00	0.150	ug/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	4180	10.0	4.39	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300205	**SWMU183-MW03**	Water	07/29/2013 11:45	07/30/2013 09:25

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.011	0.010	0.0025	mg/L
7439-96-5	Manganese	1.13	0.015	0.0038	mg/L
7440-09-7	Potassium	7.98	0.50	0.13	mg/L
7440-62-2	Vanadium	0.015J	0.020	0.0050	mg/L
7440-66-6	Zinc	0.0053J	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	482	0.80	0.20	mg/L
7439-95-4	Magnesium	230	0.20	0.050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1110	10.0	2.50	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	6430	10.0	4.39	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	24.2	10.0	0.400	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300201	**MW08-03**	Water	07/29/2013 08:15	07/30/2013 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/31/2013 11:15	JCK	512809

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300201	**MW08-03**	Water	07/29/2013 08:15	07/30/2013 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/31/2013 11:15	JCK	512809

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.6	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	49	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	50.9	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.6	ug/L	101	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512738	SW-846 7470A Dissolved	1	07/31/2013 13:05	CMB	512807

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512738	SW-846 7470A	1	07/31/2013 13:07	CMB	512807

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300201	**MW08-03**	Water	07/29/2013 08:15	07/30/2013 09:25

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	10	08/02/2013 19:04	BAM	512987

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2520**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	1	08/05/2013 19:57	BAM	513144

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	Arsenic	0.0050U	0.020	0.0050	mg/L
7440-39-3	**Barium**	**0.0039J**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-70-2	**Calcium**	**458**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	Copper	0.0050U	0.020	0.0050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-96-5	Manganese	0.0038U	0.015	0.0038	mg/L
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**20.1**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.029**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	1	08/06/2013 19:25	BAM	513225

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-95-4	**Magnesium**	**588**	**0.20**	**0.050**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/08/2013 12:00	513121	SW-846 3005 Dissolved	1	08/09/2013 00:45	BAM	513395

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300201	**MW08-03**	Water	07/29/2013 08:15	07/30/2013 09:25

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/02/2013 16:59	AEL	513010

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**11700**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	07/30/2013 18:46	MCP	512735

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**10.8**	**10.0**	**0.400**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300202	**MW08-01**	Water	07/29/2013 09:10	07/30/2013 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/31/2013 11:35	JCK	512809

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**45.4**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**6.72**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**4.78J**	**5.00**	**0.193**	**ug/L**
71-43-2	**Benzene**	**0.778J**	**5.00**	**0.111**	**ug/L**
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	**Ethylbenzene**	**0.473J**	**5.00**	**0.109**	**ug/L**
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300202	**MW08-01**	Water	07/29/2013 09:10	07/30/2013 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/31/2013 11:35	JCK	512809

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	**sec-Butylbenzene**	**0.604J**	**5.00**	**0.107**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	**tert-Butylbenzene**	**0.984J**	**5.00**	**0.087**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.3	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	48.1	ug/L	96	87 - 116
2037-26-5	Toluene d8	50	49.7	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512738	SW-846 7470A Dissolved	1	07/31/2013 13:08	CMB	512807

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512738	SW-846 7470A	1	07/31/2013 13:10	CMB	512807

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300202	**MW08-01**	Water	07/29/2013 09:10	07/30/2013 09:25

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	10	08/02/2013 19:37	BAM	512987

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1780**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	1	08/05/2013 20:31	BAM	513144

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	Arsenic	0.0050U	0.020	0.0050	mg/L
7440-39-3	**Barium**	**0.0089J**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-70-2	**Calcium**	**387**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	Copper	0.0050U	0.020	0.0050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-96-5	**Manganese**	**2.47**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**6.20**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.0050U	0.020	0.0050	mg/L
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	1	08/06/2013 20:08	BAM	513225

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	**Iron**	**7.11**	**0.20**	**0.050**	**mg/L**
7439-95-4	**Magnesium**	**519**	**0.20**	**0.050**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/08/2013 12:00	513121	SW-846 3005 Dissolved	1	08/08/2013 23:22	BAM	513395

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300202	**MW08-01**	Water	07/29/2013 09:10	07/30/2013 09:25

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/02/2013 16:59	AEL	513010

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**9100**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/30/2013 19:03	MCP	512735

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.200U	5.00	0.200	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300203	**MW08-02**	Water	07/29/2013 10:05	07/30/2013 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/31/2013 11:55	JCK	512809

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**10.8**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300203	**MW08-02**	Water	07/29/2013 10:05	07/30/2013 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/31/2013 11:55	JCK	512809

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	**tert-Butylbenzene**	**0.349J**	**5.00**	**0.087**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.3	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	48.3	ug/L	97	87 - 116
2037-26-5	Toluene d8	50	51.1	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.7	ug/L	99	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512738	SW-846 7470A Dissolved	1	07/31/2013 12:50	CMB	512807

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512738	SW-846 7470A	1	07/31/2013 12:54	CMB	512807

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300203	**MW08-02**	Water	07/29/2013 10:05	07/30/2013 09:25

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	10	08/02/2013 19:50	BAM	512987

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**193**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	1	08/05/2013 20:37	BAM	513144

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	Arsenic	0.0050U	0.020	0.0050	mg/L
7440-39-3	**Barium**	**0.012**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-70-2	**Calcium**	**470**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	Copper	0.0050U	0.020	0.0050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-96-5	**Manganese**	**1.08**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**3.78**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.0050U	0.020	0.0050	mg/L
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	1	08/06/2013 20:22	BAM	513225

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	**Iron**	**0.90**	**0.20**	**0.050**	**mg/L**
7439-95-4	**Magnesium**	**155**	**0.20**	**0.050**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/08/2013 12:00	513121	SW-846 3005 Dissolved	1	08/09/2013 00:59	BAM	513395

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300203	**MW08-02**	Water	07/29/2013 10:05	07/30/2013 09:25

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/30/2013 15:30	DJH	512765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3710**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	07/30/2013 19:21	MCP	512735

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.100U	2.50	0.100	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300204	**MW08-07**	Water	07/29/2013 11:00	07/30/2013 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/31/2013 12:15	JCK	512809

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**39.9**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**1.12J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300204	**MW08-07**	Water	07/29/2013 11:00	07/30/2013 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/31/2013 12:15	JCK	512809

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.8	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	48.2	ug/L	96	87 - 116
2037-26-5	Toluene d8	50	50.7	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.9	ug/L	98	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512738	SW-846 7470A Dissolved	1	07/31/2013 13:12	CMB	512807

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512738	SW-846 7470A	1	07/31/2013 13:14	CMB	512807

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300204	**MW08-07**	Water	07/29/2013 11:00	07/30/2013 09:25

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	10	08/02/2013 20:17	BAM	512987

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**429**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	1	08/05/2013 20:58	BAM	513144

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.025**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.010**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	Copper	0.0050U	0.020	0.0050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-96-5	**Manganese**	**1.16**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**5.54**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.014J**	**0.020**	**0.0050**	**mg/L**
7440-66-6	**Zinc**	**0.0061J**	**0.020**	**0.0050**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	1	08/06/2013 20:51	BAM	513225

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-70-2	**Calcium**	**545**	**0.80**	**0.20**	**mg/L**
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-95-4	**Magnesium**	**168**	**0.20**	**0.050**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/08/2013 12:00	513121	SW-846 3005 Dissolved	1	08/09/2013 01:13	BAM	513395

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300204	**MW08-07**	Water	07/29/2013 11:00	07/30/2013 09:25

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/02/2013 16:59	AEL	513010

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**4180**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/30/2013 19:38	MCP	512735

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.69J**	**5.00**	**0.200**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300205	**SWMU183-MW03**	Water	07/29/2013 11:45	07/30/2013 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/31/2013 10:55	JCK	512809

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300205	**SWMU183-MW03**	Water	07/29/2013 11:45	07/30/2013 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/31/2013 10:55	JCK	512809

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	50.7	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512738	SW-846 7470A Dissolved	1	07/31/2013 13:16	CMB	512807

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512738	SW-846 7470A	1	07/31/2013 13:17	CMB	512807

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300205	**SWMU183-MW03**	Water	07/29/2013 11:45	07/30/2013 09:25

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	10	08/02/2013 20:30	BAM	512987

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1110**	**10.0**	**2.50**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	1	08/05/2013 21:05	BAM	513144

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	Arsenic	0.0050U	0.020	0.0050	mg/L
7440-39-3	**Barium**	**0.011**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	Copper	0.0050U	0.020	0.0050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-96-5	**Manganese**	**1.13**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**7.98**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.015J**	**0.020**	**0.0050**	**mg/L**
7440-66-6	**Zinc**	**0.0053J**	**0.020**	**0.0050**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/30/2013 13:15	512740	SW-846 3005 Dissolved	1	08/06/2013 21:33	BAM	513225

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-70-2	**Calcium**	**482**	**0.80**	**0.20**	**mg/L**
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-95-4	**Magnesium**	**230**	**0.20**	**0.050**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/08/2013 12:00	513121	SW-846 3005 Dissolved	1	08/09/2013 01:27	BAM	513395

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300205	**SWMU183-MW03**	Water	07/29/2013 11:45	07/30/2013 09:25

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/30/2013 15:30	DJH	512765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**6430**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	07/31/2013 08:42	MCP	512735

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**24.2**	**10.0**	**0.400**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300206	**TRIP BLANK**	Water	07/29/2013 00:00	07/30/2013 09:25

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/31/2013 10:35	AMD	512809

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21307300206	**TRIP BLANK**	Water	07/29/2013 00:00	07/30/2013 09:25

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/31/2013 10:35	AMD	512809

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.8	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	48.8	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	50.1	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.7	ug/L	99	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch	512809	**Client ID**	MB512809			LCS512809			LCSD512809		
Prep Batch	N/A	**GCAL ID**	1219147			1223333			1219149		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/31/2013 10:14			07/31/2013 08:00			07/31/2013 08:57		
		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	0.193U		0.193	50.0	36.4	73	59 - 134	40.5	81	11	30
74-97-5	Bromochloromethane	0.127U		0.127	50.0	47.4	95	78 - 112	55.2	110	15	30
75-27-4	Bromodichloromethane	0.083U		0.083	50.0	46.0	92	76 - 116	53.5	107	15	30
75-25-2	Bromoform	0.215U		0.215	50.0	39.2	78	68 - 128	45.3	91	14	30
74-83-9	Bromomethane	0.427U		0.427	50.0	39.8	80	55 - 151	56.4	113	**35***	30
75-15-0	Carbon disulfide	0.190U		0.190	50.0	51.2	102	67 - 147	57.9	116	12	30
56-23-5	Carbon tetrachloride	0.248U		0.248	50.0	52.0	104	74 - 139	58.4	117	12	30
75-00-3	Chloroethane	0.235U		0.235	50.0	53.2	106	54 - 166	59.8	120	12	30
136777-61-2	m,p-Xylene	0.123U		0.123	100	93.9	94	83 - 121	107	107	13	30
67-66-3	Chloroform	0.155U		0.155	50.0	46.0	92	85 - 123	53.3	107	15	30
74-87-3	Chloromethane	0.144U		0.144	50.0	42.0	84	55 - 173	48.7	97	15	30
124-48-1	Dibromochloromethane	0.054U		0.054	50.0	43.7	87	74 - 116	50.4	101	14	30
74-95-3	Dibromomethane	0.211U		0.211	50.0	44.3	89	81 - 116	50.5	101	13	30
75-71-8	Dichlorodifluoromethane	0.145U		0.145	50.0	51.4	103	34 - 158	56.0	112	9	30
75-34-3	1,1-Dichloroethane	0.171U		0.171	50.0	47.8	96	82 - 127	54.1	108	12	30
107-06-2	1,2-Dichloroethane	0.116U		0.116	50.0	43.5	87	76 - 122	50.5	101	15	30
156-59-2	cis-1,2-Dichloroethene	0.103U		0.103	50.0	48.2	96	81 - 114	55.0	110	13	30
156-60-5	trans-1,2-Dichloroethene	0.077U		0.077	50.0	49.0	98	82 - 126	55.1	110	12	30
75-09-2	Methylene chloride	0.149U		0.149	50.0	45.7	91	69 - 125	53.0	106	15	30
78-87-5	1,2-Dichloropropane	0.150U		0.150	50.0	46.6	93	81 - 120	54.0	108	15	30
10061-01-5	cis-1,3-Dichloropropene	0.124U		0.124	50.0	46.3	93	83 - 119	54.7	109	17	30
10061-02-6	trans-1,3-Dichloropropene	0.128U		0.128	50.0	45.8	92	87 - 123	53.5	107	16	30
100-41-4	Ethylbenzene	0.109U		0.109	50.0	48.1	96	87 - 118	53.9	108	11	30
591-78-6	2-Hexanone	0.122U		0.122	50.0	33.9	68	58 - 125	38.9	78	14	30
98-82-8	Isopropylbenzene (Cumene)	0.130U		0.130	50.0	50.7	101	87 - 131	57.5	115	13	30
78-93-3	2-Butanone	0.142U		0.142	50.0	35.2	70	61 - 127	39.2	78	11	30
74-88-4	Methyl iodide	0.084U		0.084	50.0	34.2	**68***	72 - 125	51.2	102	**40***	30
108-10-1	4-Methyl-2-pentanone	0.120U		0.120	50.0	35.9	72	62 - 125	40.8	82	13	30
103-65-1	n-Propylbenzene	0.727U		0.727	50.0	51.5	103	86 - 125	58.8	118	13	30
100-42-5	Styrene	0.089U		0.089	50.0	48.8	98	78 - 118	56.5	113	15	30
127-18-4	Tetrachloroethene	0.193U		0.193	50.0	50.1	100	80 - 131	56.3	113	12	30
630-20-6	1,1,1,2-Tetrachloroethane	0.120U		0.120	50.0	45.4	91	81 - 119	52.0	104	14	30
79-34-5	1,1,2,2-Tetrachloroethane	0.109U		0.109	50.0	42.1	84	71 - 120	47.8	96	13	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	512809	**Client ID**	MB512809			LCS512809			LCSD512809		
Prep Batch	N/A	**GCAL ID**	1219147			1223333			1219149		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/31/2013 10:14			07/31/2013 08:00			07/31/2013 08:57		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
120-82-1	1,2,4-Trichlorobenzene	0.105U	0.105	50.0	43.0	86	68 - 123	52.0	104	19	30
71-55-6	1,1,1-Trichloroethane	0.123U	0.123	50.0	48.7	97	79 - 133	55.5	111	13	30
79-00-5	1,1,2-Trichloroethane	0.159U	0.159	50.0	43.1	86	80 - 114	49.6	99	14	30
75-69-4	Trichlorofluoromethane	0.157U	0.157	50.0	46.6	93	66 - 156	51.9	104	11	30
96-18-4	1,2,3-Trichloropropane	0.065U	0.065	50.0	40.1	80	77 - 115	46.0	92	14	30
95-63-6	1,2,4-Trimethylbenzene	0.084U	0.084	50.0	50.9	102	82 - 120	59.0	118	15	30
108-67-8	1,3,5-Trimethylbenzene	0.066U	0.066	50.0	51.6	103	83 - 123	59.5	119	14	30
75-01-4	Vinyl chloride	0.127U	0.127	50.0	51.7	103	57 - 153	57.4	115	10	30
95-47-6	o-Xylene	0.055U	0.055	50.0	46.8	94	83 - 121	53.7	107	14	30
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	0.194	50.0	36.0	72	61 - 118	42.7	85	17	30
106-93-4	1,2-Dibromoethane	0.102U	0.102	50.0	42.4	85	80 - 115	49.0	98	14	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078	50.0	42.7	85	75 - 116	49.5	99	15	30
540-59-0	1,2-Dichloroethene(Total)	0.180U	0.180	100	97.2	97	74 - 128	110	110	12	30
99-87-6	4-Isopropyltoluene	0.070U	0.070	50.0	54.5	109	83 - 125	61.8	124	13	30
1330-20-7	Xylene (total)	0.179U	0.179	150	141	94	74 - 127	160	107	13	30
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	0.264	50.0	37.8	76	51 - 137	43.6	87	14	30
594-20-7	2,2-Dichloropropane	0.170U	0.170	50.0	50.8	102	77 - 138	57.8	116	13	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158	50.0	52.6	105	74 - 139	57.8	116	9	30
563-58-6	1,1-Dichloropropene	0.052U	0.052	50.0	50.4	101	87 - 127	56.1	112	11	30
142-28-9	1,3-Dichloropropane	0.059U	0.059	50.0	43.6	87	81 - 113	49.3	99	12	30
108-86-1	Bromobenzene	0.145U	0.145	50.0	45.5	91	83 - 115	53.1	106	15	30
95-49-8	2-Chlorotoluene	0.080U	0.080	50.0	48.7	97	81 - 121	55.9	112	14	30
106-43-4	4-Chlorotoluene	0.124U	0.124	50.0	48.8	98	84 - 120	56.4	113	14	30
98-06-6	tert-Butylbenzene	0.087U	0.087	50.0	53.2	106	83 - 126	60.6	121	13	30
135-98-8	sec-Butylbenzene	0.107U	0.107	50.0	54.6	109	86 - 127	61.3	123	12	30
541-73-1	1,3-Dichlorobenzene	0.138U	0.138	50.0	47.0	94	86 - 115	54.6	109	15	30
106-46-7	1,4-Dichlorobenzene	0.083U	0.083	50.0	45.4	91	87 - 113	52.7	105	15	30
104-51-8	n-Butylbenzene	0.123U	0.123	50.0	54.6	109	84 - 124	61.6	123	12	30
95-50-1	1,2-Dichlorobenzene	0.135U	0.135	50.0	44.6	89	85 - 115	53.0	106	17	30
87-68-3	Hexachlorobutadiene	0.265U	0.265	50.0	49.3	99	71 - 133	58.1	116	16	30
91-20-3	Naphthalene	0.176U	0.176	50.0	35.7	71	59 - 125	46.5	93	26	35
75-35-4	1,1-Dichloroethene	0.208U	0.208	50.0	49.0	98	75 - 133	55.8	112	13	20
71-43-2	Benzene	0.111U	0.111	50.0	46.6	93	83 - 124	53.2	106	13	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	512809	**Client ID**	MB512809			LCS512809			LCSD512809		
Prep Batch	N/A	**GCAL ID**	1219147			1223333			1219149		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/31/2013 10:14			07/31/2013 08:00			07/31/2013 08:57		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
79-01-6	Trichloroethene	0.161U		0.161	50.0	45.0	90	85 - 124	51.5	103	13	20
108-88-3	Toluene	0.122U		0.122	50.0	46.3	93	86 - 116	52.7	105	13	20
108-90-7	Chlorobenzene	0.083U		0.083	50.0	45.2	90	87 - 115	52.1	104	14	20
Surrogate												
460-00-4	4-Bromofluorobenzene	48.9		98	50	48.9	98	84 - 120	48.5	97		
1868-53-7	Dibromofluoromethane	49.2		98	50	50.5	101	87 - 116	49.3	99		
2037-26-5	Toluene d8	51.3		103	50	49.8	100	86 - 112	48.9	98		
17060-07-0	1,2-Dichloroethane-d4	49.2		98	50	49.5	99	76 - 127	48.7	97		

Inorganics Quality Control Summary

Analytical Batch	512807	**Client ID**	MB512738			LCS512738		
Prep Batch	512738	**GCAL ID**	1218740			1218741		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	07/30/2013 13:15			07/30/2013 13:15		
		Analytical Date	07/31/2013 12:46			07/31/2013 12:48		
		Matrix	Water			Water		
SW-846 7470A			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.000068U	0.000068	0.0025	0.0024	95	88 - 111

Analytical Batch	512807	**Client ID**	MW08-02			1218699MS			1218699MSD			
Prep Batch	512738	**GCAL ID**	21307300203			1218742			1218743			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	07/30/2013 13:15			07/30/2013 13:15			07/30/2013 13:15			
		Analytical Date	07/31/2013 12:54			07/31/2013 12:56			07/31/2013 12:58			
		Matrix	Water			Water			Water			
SW-846 7470A			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.0	0.000068	0.0025	0.0026	105	80 - 120	0.0018	**71***	**39***	10

Inorganics Quality Control Summary

Analytical Batch	512987	**Client ID**	MB512740	LCS512740
Prep Batch	512740	**GCAL ID**	1218748	1218749
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	07/30/2013 13:15	07/30/2013 13:15
		Analytical Date	08/02/2013 17:37	08/02/2013 17:44
		Matrix	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.050U	0.050	5.00	4.80	96	80 - 120
7440-36-0	Antimony	0.015U	0.015	0.50	0.52	104	80 - 120
7440-38-2	Arsenic	0.0050U	0.0050	0.50	0.40	80	80 - 120
7440-39-3	Barium	0.0025U	0.0025	0.50	0.50	100	80 - 120
7440-41-7	Beryllium	0.0010U	0.0010	0.50	0.50	101	80 - 120
7440-70-2	Calcium	0.38J	0.20	5.00	5.10	102	80 - 120
7440-47-3	Chromium	0.0025U	0.0025	0.50	0.50	100	80 - 120
7440-48-4	Cobalt	0.0025U	0.0025	0.50	0.51	102	80 - 120
7440-50-8	Copper	0.0050U	0.0050	0.50	0.51	102	80 - 120
7439-89-6	Iron	0.050U	0.050	5.00	4.72	94	80 - 120
7439-92-1	Lead	0.0038U	0.0038	0.50	0.40	81	80 - 120
7439-95-4	Magnesium	0.050U	0.050	5.00	4.75	95	80 - 120
7439-96-5	Manganese	0.0038U	0.0038	0.50	0.50	100	80 - 120
7440-02-0	Nickel	0.010U	0.010	0.50	0.51	103	80 - 120
7440-09-7	Potassium	0.13U	0.13	10.0	9.99	100	80 - 120
7782-49-2	Selenium	0.010U	0.010	0.50	0.41	82	80 - 120
7440-22-4	Silver	0.0025U	0.0025	0.50	0.51	101	80 - 120
7440-23-5	Sodium	0.25U	0.25	20.0	19.9	99	80 - 120
7440-28-0	Thallium	0.0050U	0.0050	0.50	0.49	98	80 - 120
7440-62-2	Vanadium	0.0050U	0.0050	0.50	0.50	99	80 - 120
7440-66-6	Zinc	0.0098J	0.0050	0.50	0.52	104	80 - 120

Analytical Batch	512987	**Client ID**	MW08-03	1218697MS	1218697MSD
Prep Batch	512740	**GCAL ID**	21307300201	1218750	1218751
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/30/2013 13:15	07/30/2013 13:15	07/30/2013 13:15
		Analytical Date	08/02/2013 19:04	08/02/2013 19:10	08/02/2013 19:17
		Matrix	Water	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
7440-23-5	Sodium	2520	2.50	20.0	2530	**51***	80 - 120	2510	**-59***	1	20

Inorganics Quality Control Summary

Analytical Batch	513144	**Client ID**	MW08-03	1218697MS	1218697MSD
Prep Batch	512740	**GCAL ID**	21307300201	1218750	1218751
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/30/2013 13:15	07/30/2013 13:15	07/30/2013 13:15
		Analytical Date	08/05/2013 19:57	08/05/2013 20:04	08/05/2013 20:11
		Matrix	Water	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.050	5.00	4.59	92	80 - 120	4.51	90	2	20
7440-36-0	Antimony	0.0	0.015	0.50	0.56	112	80 - 120	0.55	109	3	20
7440-38-2	Arsenic	0.0	0.0050	0.50	0.55	111	80 - 120	0.54	109	2	20
7440-39-3	Barium	0.0039	0.0025	0.50	0.48	95	80 - 120	0.47	94	1	20
7440-41-7	Beryllium	0.0	0.0010	0.50	0.47	95	80 - 120	0.46	92	2	20
7440-70-2	Calcium	458	0.20	5.00	462	86	80 - 120	458	**7***	1	20
7440-47-3	Chromium	0.0	0.0025	0.50	0.46	92	80 - 120	0.45	90	2	20
7440-48-4	Cobalt	0.0	0.0025	0.50	0.46	93	80 - 120	0.47	94	1	20
7440-50-8	Copper	0.0	0.0050	0.50	0.49	98	80 - 120	0.49	97	1	20
7439-92-1	Lead	0.0	0.0038	0.50	0.44	87	80 - 120	0.43	85	2	20
7439-96-5	Manganese	0.0	0.0038	0.50	0.47	95	80 - 120	0.47	94	1	20
7440-02-0	Nickel	0.0	0.010	0.50	0.44	88	80 - 120	0.44	87	1	20
7440-09-7	Potassium	20.1	0.13	10.0	33.8	**137***	80 - 120	33.6	**135***	1	20
7782-49-2	Selenium	0.0	0.010	0.50	0.54	108	80 - 120	0.54	108	0	20
7440-22-4	Silver	0.0	0.0025	0.50	0.52	103	80 - 120	0.51	102	1	20
7440-28-0	Thallium	0.0	0.0050	0.50	0.43	86	80 - 120	0.42	84	3	20
7440-62-2	Vanadium	0.029	0.0050	0.50	0.53	100	80 - 120	0.52	99	1	20
7440-66-6	Zinc	0.0	0.0050	0.50	0.51	101	80 - 120	0.50	100	1	20

Analytical Batch	513225	**Client ID**	MW08-03	1218697MS	1218697MSD
Prep Batch	512740	**GCAL ID**	21307300201	1218750	1218751
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	07/30/2013 13:15	07/30/2013 13:15	07/30/2013 13:15
		Analytical Date	08/06/2013 19:25	08/06/2013 19:39	08/06/2013 19:54
		Matrix	Water	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-89-6	Iron	0.0	0.050	5.00	4.70	94	80 - 120	4.65	93	1	20
7439-95-4	Magnesium	588	0.050	5.00	602	**291***	80 - 120	595	**136***	1	20

Inorganics Quality Control Summary

Analytical Batch	513395	**Client ID**	MB513121		LCS513121		
Prep Batch	513121	**GCAL ID**	1220731		1220732		
Prep Method	SW-846 3005	**Sample Type**	Method Blank		LCS		
	Dissolved	**Prep Date**	08/08/2013 12:00		08/08/2013 12:00		
		Analytical Date	08/08/2013 23:08		08/08/2013 23:16		
		Matrix	Water		Water		
SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-43-9	Cadmium	0.0013U	0.0013	0.50	0.54	107	80 - 120

Analytical Batch	513395	**Client ID**	MW08-01		1218698MS			1218698MSD			
Prep Batch	513121	**GCAL ID**	21307300202		1221853			1221854			
Prep Method	SW-846 3005	**Sample Type**	SAMPLE		MS			MSD			
	Dissolved	**Prep Date**	08/08/2013 12:00		08/08/2013 12:00			08/08/2013 12:00			
		Analytical Date	08/08/2013 23:22		08/08/2013 23:36			08/08/2013 23:50			
		Matrix	Water		Water			Water			
SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-43-9	Cadmium	0.0	0.0013	0.50	0.48	96	80 - 120	0.53	107	10	20

General Chemistry Quality Control Summary

Analytical Batch 512765	**Client ID**	MB512765			LCS512765		
Prep Batch N/A	**GCAL ID**	1218957			1218958		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/30/2013 15:30			07/30/2013 15:30		
	Matrix	Water			Water		
SM 2540 C - 1997		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	986	99	90 - 110

Analytical Batch 512765	**Client ID**	MW08-02		1218699DUP		
Prep Batch N/A	**GCAL ID**	21307300203		1218959		
	Sample Type	SAMPLE		DUP		
	Analytical Date	07/30/2013 15:30		07/30/2013 15:30		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	3710	4.39	3740	1	5

Analytical Batch 513010	**Client ID**	MB513010			LCS513010		
Prep Batch N/A	**GCAL ID**	1220293			1220294		
	Sample Type	Method Blank			LCS		
	Analytical Date	08/02/2013 16:59			08/02/2013 16:59		
	Matrix	Water			Water		
SM 2540 C - 1997		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	1010	101	90 - 110

Analytical Batch 513010	**Client ID**	300405 DP 8 (127-129)		1220149DUP		
Prep Batch N/A	**GCAL ID**	21308022803		1220295		
	Sample Type	SAMPLE		DUP		
	Analytical Date	08/02/2013 16:59		08/02/2013 16:59		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1360	4.39	1360	0	5

General Chemistry Quality Control Summary

Analytical Batch 513010	**Client ID**	MRAA-01D		1220106DUP		
Prep Batch N/A	**GCAL ID**	21308022402		1220296		
	Sample Type	SAMPLE		DUP		
	Analytical Date	08/02/2013 16:59		08/02/2013 16:59		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035 Total Dissolved Solids(TDS)		13300	4.39	13600	2	5

General Chemistry Quality Control Summary

Analytical Batch 512735	**Client ID**	MB512735			LCS512735		
Prep Batch N/A	**GCAL ID**	1218727			1218728		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/30/2013 16:43			07/30/2013 18:28		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.020U	0.020	2.50	2.42	97	80 - 120

Analytical Batch 512735	**Client ID**	SWMU183-MW03			1218702MS			1218702MSD				
Prep Batch N/A	**GCAL ID**	21307300205			1218729			1218730				
	Sample Type	SAMPLE			MS			MSD				
	Analytical Date	07/31/2013 08:42			07/31/2013 09:00			07/31/2013 09:17				
	Matrix	Water			Water			Water				
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**				**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**		**Limit**
14797-55-8	Nitrate	24.2	0.400	50.0	74.1	100	75 - 125	74.3	100	0		25

NATIONVIEW /4771/21307002/08/08/13

NV Project No: 10-0004

COC Number(1): 07292013-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q7)

Client Name: USACE Omaha District

Collected by: Tony Lucero / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)	Nitrate (300/9056)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)									Quality Assurance Samples (6)				
MW08-03	MW08-03	29-Jul -2013	0815		N	1	WG	7	[1]	[1]	[1]	[1]	[1]							1	1
MW08-01	MW08-01	29-Jul -2013	0910		N	1	WG	7	[1]	[1]	[1]	[1]	[1]							1	2
MW08-02	MW08-02	29-Jul -2013	1005		N	1	WG	7	[1]	[1]	[1]	[1]	[1]							1	3
MW08-07	MW08-07	29-Jul -2013	1100		N	1	WG	7	[1]	[1]	[1]	[1]	[1]							1	4
SWMU183-MW03	SWMU183-MW03	29-Jul -2013	1145		N	1	WG	7	[1]	[1]	[1]	[1]	[1]							1	5
TRIP BLANK	Field QC	29-Jul -2013			TB		WQ	3	[1]											1	6

COMMENTS: Dissolved TAL Metals filtered in the field

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero	07/29/2013	1200	1.		
2. FEDEX 073013 0925			2. [illegible]	073013	0925
3.			3.		

Sample Delivery Details / Laboratory Receipt

1.8E24

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	796335351497
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

213073002

SAMPLE DELIVERY GROUP	213073002
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile Number 204817	**Received By** Saucier, Charlotte
Line Item(s) 3 - SD-08	**Receive Date(s)** 07/30/13

CHECKLIST			
Were all samples received using proper thermal preservation?	☑ Yes	☐ No	☐ NA
When used, were all custody seals intact?	☑ Yes	☐ No	☐ NA
Were all samples received in proper containers?	☑ Yes	☐ No	☐ NA
Were all samples received using proper chemical preservation?	☑ Yes	☐ No	☐ NA
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ NA
Were all containers received in good condition?	☑ Yes	☐ No	☐ NA
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ NA
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ NA
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ NA
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑ Yes	☐ No	☐ NA

COOLERS

Airbill	Temp(oC)
7963 3535 1497	1.8 E24

DISCREPANCIES

None

LABORATORY PRESERVATIONS

None

NOTES

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 08/13/2013

GCAL Report 213080115

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450 Ext. 104
Attn	Jim Moore

Project Holloman AFB

CASE NARRATIVE

Client: NationView LLC **Report:** 213080115

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.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 513044, the LCS and/or LCSD recoveries are above the upper control limit for Bromochloromethane and 1,2-Dibromo-3-Chloropropane. These compounds were not detected in the associated samples.

METALS

In the SW-846 6010C analysis, samples 21308011501 (SD08-MW13) and 21308011502 (SD08-MW11) had to be diluted in order to bracket the concentration of target analytes within the linear dynamic range of the instrument.

In the SW-846 7470A analysis for prep batch 512927, 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.

CONVENTIONALS

In the EPA 300.0 analysis, samples 21308011501 (SD08-MW13), 21308011502 (SD08-MW11) and 21308011504 (S10-MW02) had to be diluted in order to bracket the concentration within the calibration range of the instrument or to eliminate a chemical or physical interference. This is reflected in the elevated reporting limit

In the SM 2540 C analysis, sample 21308011501 (SD08-MW13) had to be diluted prior to filtration in order not to exceed the maximum residue allowed by the method.

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.

_____

Authorized Signature
GCAL REPORT 213080115

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011501	SD08-MW13	Water	07/31/2013 08:25	08/01/2013 10:30
21308011502	SD08-MW11	Water	07/31/2013 09:40	08/01/2013 10:30
21308011503	SD08-MW10	Water	07/31/2013 10:30	08/01/2013 10:30
21308011504	S10-MW02	Water	07/31/2013 11:20	08/01/2013 10:30
21308011505	TRIP BLANK	Water	07/31/2013 00:00	08/01/2013 10:30

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011501	**SD08-MW13**	Water	07/31/2013 08:25	08/01/2013 10:30

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00011J	0.00020	0.000068	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000091J	0.00020	0.000068	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	604	4.00	1.00	mg/L
7440-50-8	Copper	0.096J	0.10	0.025	mg/L
7439-95-4	Magnesium	1800	1.00	0.25	mg/L
7440-09-7	Potassium	57.0	2.50	0.63	mg/L
7440-62-2	Vanadium	0.40	0.10	0.025	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	8230	25.0	6.25	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	39800	100	43.9	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	9.74J	25.0	1.00	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011502	**SD08-MW11**	Water	07/31/2013 09:40	08/01/2013 10:30

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.029J	0.10	0.025	mg/L
7440-70-2	Calcium	491	8.00	2.00	mg/L
7440-50-8	Copper	0.20	0.20	0.050	mg/L
7439-95-4	Magnesium	1000	2.00	0.50	mg/L
7439-96-5	Manganese	2.57	0.15	0.038	mg/L
7440-09-7	Potassium	23.9	5.00	1.25	mg/L
7440-62-2	Vanadium	0.58	0.20	0.050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	5450	25.0	6.25	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000097J	0.00020	0.000068	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	80.5	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	5.37	5.00	0.150	ug/L
98-82-8	Isopropylbenzene (Cumene)	1.28J	5.00	0.130	ug/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	24000	100	43.9	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011503	**SD08-MW10**	Water	07/31/2013 10:30	08/01/2013 10:30

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00010J	0.00020	0.000068	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011503	**SD08-MW10**	Water	07/31/2013 10:30	08/01/2013 10:30

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00010J	0.00020	0.000068	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.064J	0.20	0.050	mg/L
7440-38-2	Arsenic	0.043	0.020	0.0050	mg/L
7440-39-3	Barium	0.019	0.010	0.0025	mg/L
7440-70-2	Calcium	473	0.80	0.20	mg/L
7440-48-4	Cobalt	0.0051J	0.010	0.0025	mg/L
7440-50-8	Copper	0.016J	0.020	0.0050	mg/L
7439-89-6	Iron	0.54	0.20	0.050	mg/L
7439-95-4	Magnesium	261	0.20	0.050	mg/L
7439-96-5	Manganese	2.13	0.015	0.0038	mg/L
7440-09-7	Potassium	5.28	0.50	0.13	mg/L
7440-62-2	Vanadium	0.061	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	296	1.00	0.25	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	4210	10.0	4.39	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.43J	5.00	0.193	ug/L
71-43-2	Benzene	58.4	5.00	0.111	ug/L
100-41-4	Ethylbenzene	6.14	5.00	0.109	ug/L
98-82-8	Isopropylbenzene (Cumene)	4.58J	5.00	0.130	ug/L
103-65-1	n-Propylbenzene	7.79	5.00	0.727	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011504	**S10-MW02**	Water	07/31/2013 11:20	08/01/2013 10:30

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000096J	0.00020	0.000068	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0071J	0.020	0.0050	mg/L
7440-39-3	Barium	0.0082J	0.010	0.0025	mg/L
7440-70-2	Calcium	507	0.80	0.20	mg/L
7440-50-8	Copper	0.018J	0.020	0.0050	mg/L
7439-95-4	Magnesium	257	0.20	0.050	mg/L
7440-09-7	Potassium	14.1	0.50	0.13	mg/L
7440-62-2	Vanadium	0.10	0.020	0.0050	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	102	1.00	0.25	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00012J	0.00020	0.000068	mg/L

SM 2540 C - 1997

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3760	10.0	4.39	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	10.7	2.50	0.100	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011501	**SD08-MW13**	Water	07/31/2013 08:25	08/01/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/03/2013 11:43	LBH	513044

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011501	**SD08-MW13**	Water	07/31/2013 08:25	08/01/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/03/2013 11:43	LBH	513044

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	55	ug/L	110	84 - 120
1868-53-7	Dibromofluoromethane	50	46.5	ug/L	93	87 - 116
2037-26-5	Toluene d8	50	51.7	ug/L	103	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 13:00	512927	SW-846 7470A Dissolved	1	08/02/2013 16:47	CMB	513009

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.000091J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 13:00	512927	SW-846 7470A	1	08/02/2013 16:48	CMB	513009

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00011J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011501	**SD08-MW13**	Water	07/31/2013 08:25	08/01/2013 10:30

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 10:15	512841	SW-846 3005 Dissolved	25	08/06/2013 14:28	BAM	513225

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**8230**	**25.0**	**6.25**	**mg/L**

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 10:15	512841	SW-846 3005 Dissolved	5	08/06/2013 15:29	BAM	513225

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.25U	1.00	0.25	mg/L
7440-36-0	Antimony	0.075U	0.30	0.075	mg/L
7440-38-2	Arsenic	0.025U	0.10	0.025	mg/L
7440-39-3	Barium	0.013U	0.050	0.013	mg/L
7440-41-7	Beryllium	0.0050U	0.020	0.0050	mg/L
7440-43-9	Cadmium	0.0063U	0.025	0.0063	mg/L
7440-70-2	**Calcium**	**604**	**4.00**	**1.00**	**mg/L**
7440-47-3	Chromium	0.013U	0.050	0.013	mg/L
7440-48-4	Cobalt	0.013U	0.050	0.013	mg/L
7440-50-8	**Copper**	**0.096J**	**0.10**	**0.025**	**mg/L**
7439-89-6	Iron	0.25U	1.00	0.25	mg/L
7439-92-1	Lead	0.019U	0.075	0.019	mg/L
7439-95-4	**Magnesium**	**1800**	**1.00**	**0.25**	**mg/L**
7439-96-5	Manganese	0.019U	0.075	0.019	mg/L
7440-02-0	Nickel	0.050U	0.20	0.050	mg/L
7440-09-7	**Potassium**	**57.0**	**2.50**	**0.63**	**mg/L**
7782-49-2	Selenium	0.050U	0.20	0.050	mg/L
7440-22-4	Silver	0.013U	0.050	0.013	mg/L
7440-28-0	Thallium	0.025U	0.10	0.025	mg/L
7440-62-2	**Vanadium**	**0.40**	**0.10**	**0.025**	**mg/L**
7440-66-6	Zinc	0.025U	0.10	0.025	mg/L

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	08/02/2013 16:59	AEL	513010

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**39800**	**100**	**43.9**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	08/01/2013 15:45	MCP	512897

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**9.74J**	**25.0**	**1.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011502	**SD08-MW11**	Water	07/31/2013 09:40	08/01/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/03/2013 12:05	LBH	513044

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**80.5**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**5.37**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	**Isopropylbenzene (Cumene)**	**1.28J**	**5.00**	**0.130**	**ug/L**
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011502	**SD08-MW11**	Water	07/31/2013 09:40	08/01/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/03/2013 12:05	LBH	513044

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	55.4	ug/L	111	84 - 120
1868-53-7	Dibromofluoromethane	50	49.3	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.8	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 13:00	512927	SW-846 7470A Dissolved	1	08/02/2013 16:50	CMB	513009

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000068U	0.00020	0.000068	mg/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 13:00	512927	SW-846 7470A	1	08/02/2013 16:52	CMB	513009

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.000097J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011502	**SD08-MW11**	Water	07/31/2013 09:40	08/01/2013 10:30

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 10:15	512841	SW-846 3005 Dissolved	10	08/06/2013 14:35	BAM	513225

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	**Barium**	**0.029J**	**0.10**	**0.025**	**mg/L**
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**491**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.20**	**0.20**	**0.050**	**mg/L**
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**1000**	**2.00**	**0.50**	**mg/L**
7439-96-5	**Manganese**	**2.57**	**0.15**	**0.038**	**mg/L**
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**23.9**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.58**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 10:15	512841	SW-846 3005 Dissolved	25	08/06/2013 15:53	BAM	513225

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**5450**	**25.0**	**6.25**	**mg/L**

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	08/07/2013 09:14	BNW	513246

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**24000**	**100**	**43.9**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	08/01/2013 16:38	MCP	512897

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.00U	25.0	1.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011503	**SD08-MW10**	Water	07/31/2013 10:30	08/01/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/03/2013 12:26	LBH	513044

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**1.43J**	**5.00**	**0.193**	**ug/L**
71-43-2	**Benzene**	**58.4**	**5.00**	**0.111**	**ug/L**
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	**Ethylbenzene**	**6.14**	**5.00**	**0.109**	**ug/L**
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	**Isopropylbenzene (Cumene)**	**4.58J**	**5.00**	**0.130**	**ug/L**
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011503	**SD08-MW10**	Water	07/31/2013 10:30	08/01/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/03/2013 12:26	LBH	513044

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	**n-Propylbenzene**	**7.79**	**5.00**	**0.727**	**ug/L**
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	57.2	ug/L	114	84 - 120
1868-53-7	Dibromofluoromethane	50	48.7	ug/L	97	87 - 116
2037-26-5	Toluene d8	50	51.3	ug/L	103	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.5	ug/L	103	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 13:00	512927	SW-846 7470A Dissolved	1	08/02/2013 16:54	CMB	513009

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00010J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 13:00	512927	SW-846 7470A	1	08/02/2013 16:55	CMB	513009

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00010J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011503	**SD08-MW10**	Water	07/31/2013 10:30	08/01/2013 10:30

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 10:15	512841	SW-846 3005 Dissolved	1	08/06/2013 22:15	BAM	513225

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**0.064J**	**0.20**	**0.050**	**mg/L**
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.043**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.019**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**473**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	**Cobalt**	**0.0051J**	**0.010**	**0.0025**	**mg/L**
7440-50-8	**Copper**	**0.016J**	**0.020**	**0.0050**	**mg/L**
7439-89-6	**Iron**	**0.54**	**0.20**	**0.050**	**mg/L**
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**261**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**2.13**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**5.28**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.061**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 10:15	512841	SW-846 3005 Dissolved	1	08/07/2013 14:39	BAM	513292

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**296**	**1.00**	**0.25**	**mg/L**

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/02/2013 16:59	AEL	513010

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**4210**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/02/2013 09:11	MCP	512897

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.020U	0.500	0.020	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011504	**S10-MW02**	Water	07/31/2013 11:20	08/01/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/03/2013 12:48	LBH	513044

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011504	**S10-MW02**	Water	07/31/2013 11:20	08/01/2013 10:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/03/2013 12:48	LBH	513044

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	56.2	ug/L	112	84 - 120
1868-53-7	Dibromofluoromethane	50	47.3	ug/L	95	87 - 116
2037-26-5	Toluene d8	50	51.4	ug/L	103	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.5	ug/L	103	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 13:00	512927	SW-846 7470A Dissolved	1	08/02/2013 16:57	CMB	513009

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.000096J**	**0.00020**	**0.000068**	**mg/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 13:00	512927	SW-846 7470A	1	08/02/2013 16:59	CMB	513009

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00012J**	**0.00020**	**0.000068**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011504	**S10-MW02**	Water	07/31/2013 11:20	08/01/2013 10:30

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 10:15	512841	SW-846 3005 Dissolved	1	08/06/2013 22:30	BAM	513225

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.0071J**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.0082J**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**507**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	**Copper**	**0.018J**	**0.020**	**0.0050**	**mg/L**
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**257**	**0.20**	**0.050**	**mg/L**
7439-96-5	Manganese	0.0038U	0.015	0.0038	mg/L
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**14.1**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.10**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/02/2013 10:15	512841	SW-846 3005 Dissolved	1	08/07/2013 14:53	BAM	513292

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**102**	**1.00**	**0.25**	**mg/L**

SM 2540 C - 1997

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/02/2013 16:59	AEL	513010

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3760**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	08/01/2013 17:12	MCP	512897

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**10.7**	**2.50**	**0.100**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011505	**TRIP BLANK**	Water	07/31/2013 00:00	08/01/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/03/2013 13:10	LBH	513044

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21308011505	**TRIP BLANK**	Water	07/31/2013 00:00	08/01/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/03/2013 13:10	LBH	513044

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	55.7	ug/L	111	84 - 120
1868-53-7	Dibromofluoromethane	50	47.8	ug/L	96	87 - 116
2037-26-5	Toluene d8	50	50.1	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.8	ug/L	104	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch	513044	**Client ID**	MB513044			LCS513044			LCSD513044		
Prep Batch	N/A	**GCAL ID**	1220507			1220508			1220509		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	08/03/2013 11:21			08/03/2013 09:32			08/03/2013 09:54		
		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	0.193U	0.193		50.0	50.7	101	59 - 134	52.9	106	4	30
74-97-5	Bromochloromethane	0.127U	0.127		50.0	57.4	**115***	78 - 112	57.6	**115***	0	30
75-27-4	Bromodichloromethane	0.083U	0.083		50.0	55.4	111	76 - 116	55.6	111	0	30
75-25-2	Bromoform	0.215U	0.215		50.0	58.0	116	68 - 128	58.3	117	1	30
74-83-9	Bromomethane	0.427U	0.427		50.0	33.0	66	55 - 151	36.1	72	9	30
75-15-0	Carbon disulfide	0.190U	0.190		50.0	41.4	83	67 - 147	41.8	84	1	30
56-23-5	Carbon tetrachloride	0.248U	0.248		50.0	50.2	100	74 - 139	50.0	100	0	30
75-00-3	Chloroethane	0.235U	0.235		50.0	38.7	77	54 - 166	36.4	73	6	30
136777-61-2	m,p-Xylene	0.123U	0.123		100	104	104	83 - 121	104	104	0	30
67-66-3	Chloroform	0.155U	0.155		50.0	51.1	102	85 - 123	50.7	101	1	30
74-87-3	Chloromethane	0.144U	0.144		50.0	43.8	88	55 - 173	43.9	88	0	30
124-48-1	Dibromochloromethane	0.054U	0.054		50.0	57.3	115	74 - 116	57.7	115	1	30
74-95-3	Dibromomethane	0.211U	0.211		50.0	50.6	101	81 - 116	50.4	101	0	30
75-71-8	Dichlorodifluoromethane	0.145U	0.145		50.0	32.0	64	34 - 158	32.6	65	2	30
75-34-3	1,1-Dichloroethane	0.171U	0.171		50.0	50.0	100	82 - 127	50.4	101	1	30
107-06-2	1,2-Dichloroethane	0.116U	0.116		50.0	53.7	107	76 - 122	53.9	108	0	30
156-59-2	cis-1,2-Dichloroethene	0.103U	0.103		50.0	51.2	102	81 - 114	51.5	103	1	30
156-60-5	trans-1,2-Dichloroethene	0.077U	0.077		50.0	50.3	101	82 - 126	50.4	101	0	30
75-09-2	Methylene chloride	0.149U	0.149		50.0	49.9	100	69 - 125	50.3	101	1	30
78-87-5	1,2-Dichloropropane	0.150U	0.150		50.0	54.8	110	81 - 120	54.5	109	1	30
10061-01-5	cis-1,3-Dichloropropene	0.124U	0.124		50.0	54.7	109	83 - 119	53.8	108	2	30
10061-02-6	trans-1,3-Dichloropropene	0.128U	0.128		50.0	56.1	112	87 - 123	58.1	116	4	30
100-41-4	Ethylbenzene	0.109U	0.109		50.0	51.7	103	87 - 118	50.9	102	2	30
591-78-6	2-Hexanone	0.122U	0.122		50.0	55.6	111	58 - 125	57.0	114	2	30
98-82-8	Isopropylbenzene (Cumene)	0.130U	0.130		50.0	54.5	109	87 - 131	52.3	105	4	30
78-93-3	2-Butanone	0.142U	0.142		50.0	56.6	113	61 - 127	57.8	116	2	30
74-88-4	Methyl iodide	0.084U	0.084		50.0	46.1	92	72 - 125	45.8	92	1	30
108-10-1	4-Methyl-2-pentanone	0.120U	0.120		50.0	56.0	112	62 - 125	57.8	116	3	30
103-65-1	n-Propylbenzene	0.727U	0.727		50.0	48.8	98	86 - 125	47.3	95	3	30
100-42-5	Styrene	0.089U	0.089		50.0	52.5	105	78 - 118	52.4	105	0	30
127-18-4	Tetrachloroethene	0.193U	0.193		50.0	58.0	116	80 - 131	58.5	117	1	30
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	0.120		50.0	57.0	114	81 - 119	55.6	111	2	30
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	0.109		50.0	50.5	101	71 - 120	49.4	99	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	513044	**Client ID**	MB513044			LCS513044			LCSD513044		
Prep Batch	N/A	**GCAL ID**	1220507			1220508			1220509		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	08/03/2013 11:21			08/03/2013 09:32			08/03/2013 09:54		
		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	0.105U	0.105		50.0	59.0	118	68 - 123	57.4	115	3	30
71-55-6	1,1,1-Trichloroethane	0.123U	0.123		50.0	53.0	106	79 - 133	52.5	105	1	30
79-00-5	1,1,2-Trichloroethane	0.159U	0.159		50.0	54.2	108	80 - 114	53.7	107	1	30
75-69-4	Trichlorofluoromethane	0.157U	0.157		50.0	43.3	87	66 - 156	42.8	86	1	30
96-18-4	1,2,3-Trichloropropane	0.065U	0.065		50.0	54.0	108	77 - 115	50.4	101	7	30
95-63-6	1,2,4-Trimethylbenzene	0.084U	0.084		50.0	52.1	104	82 - 120	50.8	102	3	30
108-67-8	1,3,5-Trimethylbenzene	0.066U	0.066		50.0	49.1	98	83 - 123	46.8	94	5	30
75-01-4	Vinyl chloride	0.127U	0.127		50.0	40.9	82	57 - 153	42.2	84	3	30
95-47-6	o-Xylene	0.055U	0.055		50.0	53.2	106	83 - 121	53.1	106	0	30
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	0.194		50.0	61.0	**122***	61 - 118	61.4	**123***	1	30
106-93-4	1,2-Dibromoethane	0.102U	0.102		50.0	55.1	110	80 - 115	55.1	110	0	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078		50.0	50.9	102	75 - 116	50.8	102	0	30
540-59-0	1,2-Dichloroethene(Total)	0.180U	0.180		100	102	102	74 - 128	102	102	0	30
99-87-6	4-Isopropyltoluene	0.070U	0.070		50.0	51.1	102	83 - 125	49.0	98	4	30
1330-20-7	Xylene (total)	0.179U	0.179		150	157	105	74 - 127	157	105	0	30
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	0.264		50.0	55.5	111	51 - 137	57.1	114	3	30
594-20-7	2,2-Dichloropropane	0.170U	0.170		50.0	53.0	106	77 - 138	53.1	106	0	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158		50.0	47.1	94	74 - 139	46.4	93	1	30
563-58-6	1,1-Dichloropropene	0.052U	0.052		50.0	51.2	102	87 - 127	50.5	101	1	30
142-28-9	1,3-Dichloropropane	0.059U	0.059		50.0	52.6	105	81 - 113	51.9	104	1	30
108-86-1	Bromobenzene	0.145U	0.145		50.0	49.0	98	83 - 115	48.3	97	1	30
95-49-8	2-Chlorotoluene	0.080U	0.080		50.0	49.1	98	81 - 121	46.9	94	5	30
106-43-4	4-Chlorotoluene	0.124U	0.124		50.0	52.3	105	84 - 120	51.0	102	3	30
98-06-6	tert-Butylbenzene	0.087U	0.087		50.0	52.4	105	83 - 126	49.2	98	6	30
135-98-8	sec-Butylbenzene	0.107U	0.107		50.0	52.3	105	86 - 127	49.4	99	6	30
541-73-1	1,3-Dichlorobenzene	0.138U	0.138		50.0	52.7	105	86 - 115	50.6	101	4	30
106-46-7	1,4-Dichlorobenzene	0.083U	0.083		50.0	49.1	98	87 - 113	48.8	98	1	30
104-51-8	n-Butylbenzene	0.123U	0.123		50.0	50.2	100	84 - 124	49.1	98	2	30
95-50-1	1,2-Dichlorobenzene	0.135U	0.135		50.0	51.8	104	85 - 115	51.9	104	0	30
87-68-3	Hexachlorobutadiene	0.265U	0.265		50.0	61.1	122	71 - 133	59.5	119	3	30
91-20-3	Naphthalene	0.176U	0.176		50.0	57.5	115	59 - 125	57.5	115	0	35
75-35-4	1,1-Dichloroethene	0.208U	0.208		50.0	45.2	90	75 - 133	45.4	91	0	20
71-43-2	Benzene	0.111U	0.111		50.0	51.1	102	83 - 124	50.2	100	2	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	513044	**Client ID**	MB513044			LCS513044			LCSD513044		
Prep Batch	N/A	**GCAL ID**	1220507			1220508			1220509		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	08/03/2013 11:21			08/03/2013 09:32			08/03/2013 09:54		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.161U	0.161	50.0	54.0	108	85 - 124	54.9	110	2	20
108-88-3	Toluene		0.122U	0.122	50.0	51.2	102	86 - 116	52.0	104	2	20
108-90-7	Chlorobenzene		0.083U	0.083	50.0	52.0	104	87 - 115	51.2	102	2	20
Surrogate												
460-00-4	4-Bromofluorobenzene		57	114	50	56.1	112	84 - 120	57.5	115		
1868-53-7	Dibromofluoromethane		46.8	94	50	45.3	91	87 - 116	46.9	94		
2037-26-5	Toluene d8		51.8	104	50	49.8	100	86 - 112	50.2	100		
17060-07-0	1,2-Dichloroethane-d4		49.9	100	50	49.4	99	76 - 127	50.6	101		

Inorganics Quality Control Summary

Analytical Batch	513009	**Client ID**	MB512927		LCS512927		
Prep Batch	512927	**GCAL ID**	1219775		1219776		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	08/02/2013 13:00		08/02/2013 13:00		
		Analytical Date	08/02/2013 16:31		08/02/2013 16:33		
		Matrix	Water		Water		
SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000078J	0.000068	0.0050	0.0049	98	88 - 111

Analytical Batch	513009	**Client ID**	CARBON FILTERS AB AND C		1219056MS			1219056MSD			
Prep Batch	512927	**GCAL ID**	21307304801		1219777			1220383			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	08/02/2013 13:00		08/02/2013 13:00			08/02/2013 13:00			
		Analytical Date	08/02/2013 16:35		08/02/2013 16:37			08/02/2013 17:01			
		Matrix	Solid		Solid			Solid			
SW-846 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00010	0.000068	0.0050	0.0030	**59***	80 - 120	0.0030	**59***	0	20

Inorganics Quality Control Summary

Analytical Batch	513144	**Client ID**	MB512841	LCS512841
Prep Batch	512841	**GCAL ID**	1219379	1219380
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	08/02/2013 10:15	08/02/2013 10:15
		Analytical Date	08/05/2013 21:20	08/05/2013 21:27
		Matrix	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.050U	0.050	5.00	4.85	97	80 - 120
7440-36-0	Antimony	0.015U	0.015	0.50	0.48	96	80 - 120
7440-38-2	Arsenic	0.0050U	0.0050	0.50	0.49	98	80 - 120
7440-39-3	Barium	0.0025U	0.0025	0.50	0.47	93	80 - 120
7440-41-7	Beryllium	0.0010U	0.0010	0.50	0.47	94	80 - 120
7440-43-9	Cadmium	0.0013U	0.0013	0.50	0.48	95	80 - 120
7440-70-2	Calcium	0.20U	0.20	5.00	4.94	99	80 - 120
7440-47-3	Chromium	0.0025U	0.0025	0.50	0.46	93	80 - 120
7440-48-4	Cobalt	0.0025U	0.0025	0.50	0.47	95	80 - 120
7440-50-8	Copper	0.0050U	0.0050	0.50	0.46	92	80 - 120
7439-89-6	Iron	0.050U	0.050	5.00	4.84	97	80 - 120
7439-92-1	Lead	0.0038U	0.0038	0.50	0.47	94	80 - 120
7439-95-4	Magnesium	0.050U	0.050	5.00	4.88	98	80 - 120
7439-96-5	Manganese	0.0038U	0.0038	0.50	0.47	94	80 - 120
7440-02-0	Nickel	0.010U	0.010	0.50	0.48	96	80 - 120
7440-09-7	Potassium	0.13U	0.13	10.0	10.9	109	80 - 120
7782-49-2	Selenium	0.010U	0.010	0.50	0.49	98	80 - 120
7440-22-4	Silver	0.0025U	0.0025	0.50	0.46	93	80 - 120
7440-23-5	Sodium	0.25U	0.25	20.0	19.2	96	80 - 120
7440-28-0	Thallium	0.0050U	0.0050	0.50	0.48	96	80 - 120
7440-62-2	Vanadium	0.0050U	0.0050	0.50	0.46	91	80 - 120
7440-66-6	Zinc	0.0050U	0.0050	0.50	0.48	95	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 513010	**Client ID**	MB513010			LCS513010		
Prep Batch N/A	**GCAL ID**	1220293			1220294		
	Sample Type	Method Blank			LCS		
	Analytical Date	08/02/2013 16:59			08/02/2013 16:59		
	Matrix	Water			Water		
SM 2540 C - 1997		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	1010	101	90 - 110

Analytical Batch 513010	**Client ID**	300405 DP 8 (127-129)		1220149DUP		
Prep Batch N/A	**GCAL ID**	21308022803		1220295		
	Sample Type	SAMPLE		DUP		
	Analytical Date	08/02/2013 16:59		08/02/2013 16:59		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1360	4.39	1360	0	5

Analytical Batch 513010	**Client ID**	MRAA-01D		1220106DUP		
Prep Batch N/A	**GCAL ID**	21308022402		1220296		
	Sample Type	SAMPLE		DUP		
	Analytical Date	08/02/2013 16:59		08/02/2013 16:59		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	13300	4.39	13600	2	5

Analytical Batch 513246	**Client ID**	MB513246			LCS513246		
Prep Batch N/A	**GCAL ID**	1221298			1221299		
	Sample Type	Method Blank			LCS		
	Analytical Date	08/07/2013 09:14			08/07/2013 09:14		
	Matrix	Water			Water		
SM 2540 C - 1997		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	998	100	90 - 110

General Chemistry Quality Control Summary

Analytical Batch 513246	**Client ID**	UNOX Effluent		1220743DUP		
Prep Batch N/A	**GCAL ID**	21308051905		1221300		
	Sample Type	SAMPLE		DUP		
	Analytical Date	08/07/2013 09:14		08/07/2013 09:14		
	Matrix	Water		Water		
SM 2540 C - 1997		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1840	4.39	1840	0	5

General Chemistry Quality Control Summary

Analytical Batch 512897		**Client ID**	SD08-MW13			1219567MS			1219567MSD		
Prep Batch N/A		**GCAL ID**	21308011501			1219625			1219626		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	08/01/2013 15:45			08/01/2013 16:03			08/01/2013 16:20		
		Matrix	Water			Water			Water		
EPA 300.0			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate		9.74	1.00	125	126	93	75 - 125	127	94	1	25

NATIONVIEW | 4771 | 2130801 15 | 08/12/13

NV Project No: 10-0004

COC Number(1): 07312013-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q7)

Client Name: USACE Omaha District

Collected by: Tony Lucero / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)	Nitrate (300/9056)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)									Quality Assurance Samples (6)			
SD08-MW13	SD08-MW13	31072013	0825		N	1	WG	7	Ξ	Ξ	Ξ	Ξ	Ξ							
SD08-MW11	SD08-MW11	31072013	0940		N	1	WG	7	Ξ	Ξ	Ξ	Ξ	Ξ							
SD08-MW10	SD08-MW10	31072013	1030		N	1	WG	7	Ξ	Ξ	Ξ	Ξ	Ξ							
S10-MW02	S10-MW02	31072013	1120		N	1	WG	7	Ξ	Ξ	Ξ	Ξ	Ξ							
TRIP BLANK	Field QC	31072013			TB		WQ	1	Ξ										HA3151020	
				-																
				-																
				-																
				-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date Time	Received by (signed)	Date Time
1. Tony	07/31/2013 1200	1.	
2. FEDEX		2. Bartley 080113 1030	
3.		3.	

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	4.4 E24
Method of Shipment:	Fed Ex	Airbill Number:	796360530451
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

1 of 5

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

213080115

SAMPLE DELIVERY GROUP 213080115	
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile Number 204817	**Received By** Law, Brittany P.
Line Item(s) 3 - SD-08	**Receive Date(s)** 08/01/13

CHECKLIST	YES	NO	NA
Were all samples received using proper thermal preservation?	✓		
When used, were all custody seals intact?	✓		
Were all samples received in proper containers?	✓		
Were all samples received using proper chemical preservation?	✓		
Was preservative added to any container at the lab?		✓	
Were all containers received in good condition?	✓		
Were all VOA vials received with no head space?	✓		
Do all sample labels match the Chain of Custody?	✓		
Did the Chain of Custody list the sampling technician?	✓		
Was the COC maintained i.e. all signatures, dates and time of receipt included?	✓		

COOLERS

Airbill	Temp(oC)
7963 6053 0451	4.4 (E24)

DISCREPANCIES

None

LABORATORY PRESERVATIONS

None

NOTES

D-9

LTM Quarter 8 (Nov 2013, NationView)

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER L13-190

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 11/20/2013

GCAL Report 213110611

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450 Ext. 104
Attn	Jim Moore

Project Holloman AFB SD-08

CASE NARRATIVE

Client: NationView LLC **Report:** 213110611

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.

VOLATILES MASS SPECTROMETRY

In the EPA 8260B analysis for analytical batch 519587, the %D/%Drift is outside ± 30% for Trichlorofluoromethane in the CCV. The response is high and this analyte was not detected in the associated samples.

In the EPA 8260B analysis for analytical batch 519587, the MS/MSD exhibited spike recovery and RPD failures. The LCS and/or LCSD recoveries are above the upper control limit for Bromochloromethane and tert-Butyl methyl ether (MTBE). These compounds were not detected in the associated samples.

METALS

In the SW-846 6010C Dissolved analysis for prep batch 519409, the MS/MSD recoveries are not applicable because the spike was diluted out of the samples. All LCS recoveries are acceptable. Sodium was detected in the method blank. The concentration was insignificant as compared to the concentration detected in the associated samples.

In the EPA 6010C Dissolved analysis, samples 21311061101 (S10-MW6), 21311061102 (SD08-MW13), 21311061103 (SD08-MW13A), 21311061104 (SD08-MW12), 21311061105 (MW-08-06), 21311061106 (MW-08-06-MS), 21311061107 (MW-08-06-MSD), and 21311061110 (S10-MW01) had to be diluted in order to eliminate a chemical or physical interference and/or to bracket the concentration of a target analyte within the linear dynamic range of the instrument. This is reflected in the elevated reporting limits.

In the EPA 7470A analysis for prep batch 519414, 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 EPA 7470A Dissolved analysis for prep batch 519415, 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.

CONVENTIONALS

In the EPA 300.0 analysis, all samples had to be diluted in order to bracket the concentration within the calibration range of the instrument or to eliminate a chemical or physical interference. This is reflected in the elevated reporting limit.

There was insufficient time to process the samples at receiving and to perform the Nitrate analysis for samples 21311061101 (S10-MW6), 21311061102 (SD08-MW13), 21311061103 (SD08-MW13A), and 21311061104 (SD08-MW12) within the 48-hour holding time. The client was notified.

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.

_____

Authorized Signature
GCAL REPORT 213110611

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061101	S10-MW6	Water	11/04/2013 12:30	11/06/2013 10:30
21311061102	SD08-MW13	Water	11/04/2013 13:50	11/06/2013 10:30
21311061103	SD08-MW13A	Water	11/04/2013 13:50	11/06/2013 10:30
21311061104	SD08-MW12	Water	11/04/2013 15:05	11/06/2013 10:30
21311061105	MW-08-06	Water	11/05/2013 08:00	11/06/2013 10:30
21311061106	MW-08-06-MS	Water	11/05/2013 08:00	11/06/2013 10:30
21311061107	MW-08-06-MSD	Water	11/05/2013 08:00	11/06/2013 10:30
21311061108	MW-08-04	Water	11/05/2013 09:50	11/06/2013 10:30
21311061109	MW-08-05	Water	11/05/2013 10:50	11/06/2013 10:30
21311061110	S10-MW01	Water	11/05/2013 11:55	11/06/2013 10:30
21311061111	TRIP BLANK	Water	11/04/2013 00:00	11/06/2013 10:30

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061101	**S10-MW6**	Water	11/04/2013 12:30	11/06/2013 10:30

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	435	8.00	2.00	mg/L
7440-50-8	Copper	0.18J	0.20	0.050	mg/L
7439-95-4	Magnesium	598	2.00	0.50	mg/L
7439-96-5	Manganese	0.15	0.15	0.038	mg/L
7440-09-7	Potassium	32.5	5.00	1.25	mg/L
7440-23-5	Sodium	3320	10.0	2.50	mg/L
7440-62-2	Vanadium	0.49	0.20	0.050	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	15400	10.0	4.39	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	43.2	4.00	1.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061102	**SD08-MW13**	Water	11/04/2013 13:50	11/06/2013 10:30

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	655	8.00	2.00	mg/L
7440-50-8	Copper	0.35	0.20	0.050	mg/L
7439-95-4	Magnesium	2200	2.00	0.50	mg/L
7440-09-7	Potassium	67.0	5.00	1.25	mg/L
7440-62-2	Vanadium	0.63	0.20	0.050	mg/L

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	10600	100	25.0	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	12.9	10.0	2.50	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	33500	100	43.9	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061103	**SD08-MW13A**	Water	11/04/2013 13:50	11/06/2013 10:30

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	674	8.00	2.00	mg/L
7440-50-8	Copper	0.32	0.20	0.050	mg/L
7439-95-4	Magnesium	2270	2.00	0.50	mg/L
7440-09-7	Potassium	68.6	5.00	1.25	mg/L
7440-62-2	Vanadium	0.63	0.20	0.050	mg/L

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	10500	100	25.0	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	11.9	10.0	2.50	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	37200	100	43.9	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061104	**SD08-MW12**	Water	11/04/2013 15:05	11/06/2013 10:30

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	593	8.00	2.00	mg/L
7440-50-8	Copper	0.37	0.20	0.050	mg/L
7439-95-4	Magnesium	2890	2.00	0.50	mg/L
7439-96-5	Manganese	0.066J	0.15	0.038	mg/L
7440-09-7	Potassium	85.1	5.00	1.25	mg/L
7440-62-2	Vanadium	0.60	0.20	0.050	mg/L

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	15300	100	25.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061104	**SD08-MW12**	Water	11/04/2013 15:05	11/06/2013 10:30

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	59200	100	43.9	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	21.7	20.0	5.00	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061105	**MW-08-06**	Water	11/05/2013 08:00	11/06/2013 10:30

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.072J	0.20	0.050	mg/L
7440-70-2	Calcium	494	8.00	2.00	mg/L
7440-50-8	Copper	0.26	0.20	0.050	mg/L
7439-95-4	Magnesium	838	2.00	0.50	mg/L
7440-09-7	Potassium	23.5	5.00	1.25	mg/L
7440-23-5	Sodium	4560	10.0	2.50	mg/L
7440-62-2	Vanadium	0.55	0.20	0.050	mg/L
7440-66-6	Zinc	0.16J	0.20	0.050	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	17600	100	43.9	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	16.7	10.0	2.50	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061106	**MW-08-06-MS**	Water	11/05/2013 08:00	11/06/2013 10:30

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.82	2.00	0.50	mg/L
7440-36-0	Antimony	0.58J	0.60	0.15	mg/L
7440-38-2	Arsenic	0.47	0.20	0.050	mg/L
7440-39-3	Barium	0.19	0.10	0.025	mg/L
7440-41-7	Beryllium	0.49	0.040	0.010	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061106	**MW-08-06-MS**	Water	11/05/2013 08:00	11/06/2013 10:30

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.50	0.050	0.013	mg/L
7440-70-2	Calcium	503	8.00	2.00	mg/L
7440-47-3	Chromium	0.52	0.10	0.025	mg/L
7440-48-4	Cobalt	0.49	0.10	0.025	mg/L
7440-50-8	Copper	0.73	0.20	0.050	mg/L
7439-89-6	Iron	5.00	2.00	0.50	mg/L
7439-92-1	Lead	0.40	0.15	0.038	mg/L
7439-95-4	Magnesium	845	2.00	0.50	mg/L
7439-96-5	Manganese	0.52	0.15	0.038	mg/L
7440-02-0	Nickel	0.52	0.40	0.10	mg/L
7440-09-7	Potassium	34.5	5.00	1.25	mg/L
7782-49-2	Selenium	0.51	0.40	0.10	mg/L
7440-22-4	Silver	0.39	0.10	0.025	mg/L
7440-23-5	Sodium	4640	10.0	2.50	mg/L
7440-28-0	Thallium	0.53	0.20	0.050	mg/L
7440-62-2	Vanadium	1.06	0.20	0.050	mg/L
7440-66-6	Zinc	0.47	0.20	0.050	mg/L

EPA 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0033	0.00020	0.000070	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0031	0.00020	0.000070	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	129	10.0	2.50	mg/L

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	53.5	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	57.9	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	51.0	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	53.5	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	57.0	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	59.4	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	53.4	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	51.2	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	43.3	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	48.0	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	49.7	5.00	0.194	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061106	**MW-08-06-MS**	Water	11/05/2013 08:00	11/06/2013 10:30

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	51.2	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	50.1	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	55.5	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	113	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	56.2	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	47.6	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	52.0	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	51.5	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	48.7	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	56.4	5.00	0.170	ug/L
78-93-3	2-Butanone	43.3	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	52.7	5.00	0.080	ug/L
591-78-6	2-Hexanone	42.3	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	53.8	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	47.8	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	54.9	5.00	0.120	ug/L
67-64-1	Acetone	29.2	5.00	0.193	ug/L
71-43-2	Benzene	58.5	5.00	0.111	ug/L
108-86-1	Bromobenzene	52.5	5.00	0.145	ug/L
74-97-5	Bromochloromethane	60.6	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	54.0	5.00	0.083	ug/L
75-25-2	Bromoform	49.2	5.00	0.215	ug/L
74-83-9	Bromomethane	38.4	5.00	0.427	ug/L
75-15-0	Carbon disulfide	55.7	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	58.3	5.00	0.248	ug/L
108-90-7	Chlorobenzene	51.0	5.00	0.083	ug/L
75-00-3	Chloroethane	53.2	5.00	0.235	ug/L
67-66-3	Chloroform	56.2	5.00	0.155	ug/L
74-87-3	Chloromethane	50.5	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	50.9	5.00	0.054	ug/L
74-95-3	Dibromomethane	53.8	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	56.9	5.00	0.145	ug/L
100-41-4	Ethylbenzene	55.4	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	51.2	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	48.1	5.00	0.130	ug/L
74-88-4	Methyl iodide	37.4	5.00	0.084	ug/L
75-09-2	Methylene chloride	53.9	5.00	0.149	ug/L
91-20-3	Naphthalene	41.8	5.00	0.176	ug/L
100-42-5	Styrene	47.6	5.00	0.089	ug/L
127-18-4	Tetrachloroethene	54.8	5.00	0.193	ug/L
108-88-3	Toluene	51.4	5.00	0.122	ug/L
79-01-6	Trichloroethene	56.5	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	71.5	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	58.4	5.00	0.158	ug/L
75-01-4	Vinyl chloride	55.9	5.00	0.127	ug/L
1330-20-7	Xylene (total)	145	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	55.7	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	49.8	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	97.0	10.0	0.123	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061106	**MW-08-06-MS**	Water	11/05/2013 08:00	11/06/2013 10:30

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
104-51-8	n-Butylbenzene	46.3	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	48.4	5.00	0.727	ug/L
95-47-6	o-Xylene	47.8	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	48.6	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	60.6	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	48.1	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	57.2	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	51.0	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	63.0	5.00	0.264	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061107	**MW-08-06-MSD**	Water	11/05/2013 08:00	11/06/2013 10:30

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0032	0.00020	0.000070	mg/L

SW-846 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.76	2.00	0.50	mg/L
7440-36-0	Antimony	0.58J	0.60	0.15	mg/L
7440-38-2	Arsenic	0.58	0.20	0.050	mg/L
7440-39-3	Barium	0.14	0.10	0.025	mg/L
7440-41-7	Beryllium	0.50	0.040	0.010	mg/L
7440-43-9	Cadmium	0.50	0.050	0.013	mg/L
7440-70-2	Calcium	500	8.00	2.00	mg/L
7440-47-3	Chromium	0.52	0.10	0.025	mg/L
7440-48-4	Cobalt	0.49	0.10	0.025	mg/L
7440-50-8	Copper	0.74	0.20	0.050	mg/L
7439-89-6	Iron	5.17	2.00	0.50	mg/L
7439-92-1	Lead	0.41	0.15	0.038	mg/L
7439-95-4	Magnesium	849	2.00	0.50	mg/L
7439-96-5	Manganese	0.52	0.15	0.038	mg/L
7440-02-0	Nickel	0.53	0.40	0.10	mg/L
7440-09-7	Potassium	34.9	5.00	1.25	mg/L
7782-49-2	Selenium	0.52	0.40	0.10	mg/L
7440-22-4	Silver	0.39	0.10	0.025	mg/L
7440-23-5	Sodium	4740	10.0	2.50	mg/L
7440-28-0	Thallium	0.48	0.20	0.050	mg/L
7440-62-2	Vanadium	1.08	0.20	0.050	mg/L
7440-66-6	Zinc	0.48	0.20	0.050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061107	**MW-08-06-MSD**	Water	11/05/2013 08:00	11/06/2013 10:30

EPA 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0034	0.00020	0.000070	mg/L

EPA 300.0 Inorganic Anions

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	128	10.0	2.50	mg/L

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	52.4	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	55.1	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	54.1	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	54.4	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	53.8	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	55.9	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	50.2	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	54.3	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	47.6	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	46.9	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	53.5	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	53.4	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	50.2	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	53.4	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	109	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	53.8	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	47.2	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	51.5	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	52.9	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	48.1	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	53.0	5.00	0.170	ug/L
78-93-3	2-Butanone	45.4	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	52.1	5.00	0.080	ug/L
591-78-6	2-Hexanone	47.9	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	53.3	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	47.9	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	58.2	5.00	0.120	ug/L
67-64-1	Acetone	30.8	5.00	0.193	ug/L
71-43-2	Benzene	54.1	5.00	0.111	ug/L
108-86-1	Bromobenzene	51.6	5.00	0.145	ug/L
74-97-5	Bromochloromethane	55.5	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	51.4	5.00	0.083	ug/L
75-25-2	Bromoform	50.7	5.00	0.215	ug/L
74-83-9	Bromomethane	41.6	5.00	0.427	ug/L
75-15-0	Carbon disulfide	52.5	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	55.2	5.00	0.248	ug/L
108-90-7	Chlorobenzene	50.2	5.00	0.083	ug/L
75-00-3	Chloroethane	48.8	5.00	0.235	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061107	**MW-08-06-MSD**	Water	11/05/2013 08:00	11/06/2013 10:30

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
67-66-3	Chloroform	52.3	5.00	0.155	ug/L
74-87-3	Chloromethane	50.6	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	52.2	5.00	0.054	ug/L
74-95-3	Dibromomethane	52.6	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	54.4	5.00	0.145	ug/L
100-41-4	Ethylbenzene	53.6	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	52.9	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	47.8	5.00	0.130	ug/L
74-88-4	Methyl iodide	38.6	5.00	0.084	ug/L
75-09-2	Methylene chloride	51.6	5.00	0.149	ug/L
91-20-3	Naphthalene	49.3	5.00	0.176	ug/L
100-42-5	Styrene	46.1	5.00	0.089	ug/L
127-18-4	Tetrachloroethene	52.7	5.00	0.193	ug/L
108-88-3	Toluene	49.6	5.00	0.122	ug/L
79-01-6	Trichloroethene	53.7	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	65.9	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	54.0	5.00	0.158	ug/L
75-01-4	Vinyl chloride	54.0	5.00	0.127	ug/L
1330-20-7	Xylene (total)	144	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	53.9	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	48.0	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	96.5	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	46.7	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	47.5	5.00	0.727	ug/L
95-47-6	o-Xylene	47.1	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	48.2	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	59.9	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	47.7	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	55.2	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	48.9	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	70.5	5.00	0.264	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061108	**MW-08-04**	Water	11/05/2013 09:50	11/06/2013 10:30

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.0074J	0.020	0.0050	mg/L
7440-39-3	Barium	0.011	0.010	0.0025	mg/L
7440-70-2	Calcium	489	0.80	0.20	mg/L
7440-47-3	Chromium	0.015	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0034J	0.010	0.0025	mg/L
7439-95-4	Magnesium	280	0.20	0.050	mg/L
7439-96-5	Manganese	0.0044J	0.015	0.0038	mg/L
7440-09-7	Potassium	18.4	0.50	0.13	mg/L
7440-23-5	Sodium	512	1.00	0.25	mg/L
7440-62-2	Vanadium	0.047	0.020	0.0050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061108	**MW-08-04**	Water	11/05/2013 09:50	11/06/2013 10:30

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	3.90	1.00	0.250	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3080	10.0	4.39	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061109	**MW-08-05**	Water	11/05/2013 10:50	11/06/2013 10:30

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.019	0.010	0.0025	mg/L
7440-70-2	Calcium	616	0.80	0.20	mg/L
7440-48-4	Cobalt	0.0041J	0.010	0.0025	mg/L
7439-89-6	Iron	1.31	0.20	0.050	mg/L
7439-92-1	Lead	0.0062J	0.015	0.0038	mg/L
7439-95-4	Magnesium	49.3	0.20	0.050	mg/L
7439-96-5	Manganese	0.13	0.015	0.0038	mg/L
7440-09-7	Potassium	7.21	0.50	0.13	mg/L
7440-23-5	Sodium	22.2	1.00	0.25	mg/L
7440-62-2	Vanadium	0.013J	0.020	0.0050	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2510	10.0	4.39	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061110	**S10-MW01**	Water	11/05/2013 11:55	11/06/2013 10:30

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	488	8.00	2.00	mg/L
7440-50-8	Copper	0.21	0.20	0.050	mg/L
7439-95-4	Magnesium	528	2.00	0.50	mg/L
7439-96-5	Manganese	0.28	0.15	0.038	mg/L
7440-09-7	Potassium	16.4	5.00	1.25	mg/L
7440-23-5	Sodium	2580	10.0	2.50	mg/L
7440-62-2	Vanadium	0.53	0.20	0.050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061110	**S10-MW01**	Water	11/05/2013 11:55	11/06/2013 10:30

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**11000**	**10.0**	**4.39**	**mg/L**

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**5.62**	**4.00**	**1.00**	**mg/L**

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	**1,2-Dichloroethane**	**22.0**	**5.00**	**0.116**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061111	**TRIP BLANK**	Water	11/04/2013 00:00	11/06/2013 10:30

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
75-09-2	**Methylene chloride**	**1.51J**	**5.00**	**0.149**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061101	**S10-MW6**	Water	11/04/2013 12:30	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 10:57	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061101	**S10-MW6**	Water	11/04/2013 12:30	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 10:57	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	53.5	ug/L	107	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.2	ug/L	106	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519415	EPA 7470A Dissolved	1	11/11/2013 16:17	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519414	EPA 7470A	1	11/11/2013 13:54	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061101	**S10-MW6**	Water	11/04/2013 12:30	11/06/2013 10:30

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 12:30	519409	EPA 3005 Dissolved	10	11/13/2013 20:25	CMB	519915

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**435**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.18J**	**0.20**	**0.050**	**mg/L**
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**598**	**2.00**	**0.50**	**mg/L**
7439-96-5	**Manganese**	**0.15**	**0.15**	**0.038**	**mg/L**
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**32.5**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-23-5	**Sodium**	**3320**	**10.0**	**2.50**	**mg/L**
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.49**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/07/2013 14:50	BNW	519497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**15400**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	11/06/2013 16:57	JEM	519406

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**43.2**	**4.00**	**1.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061102	**SD08-MW13**	Water	11/04/2013 13:50	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 11:17	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061102	**SD08-MW13**	Water	11/04/2013 13:50	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 11:17	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.8	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	48.1	ug/L	96	87 - 116
2037-26-5	Toluene d8	50	53	ug/L	106	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.7	ug/L	103	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519415	EPA 7470A Dissolved	1	11/11/2013 16:18	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519414	EPA 7470A	1	11/11/2013 13:56	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061102	**SD08-MW13**	Water	11/04/2013 13:50	11/06/2013 10:30

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 12:30	519409	EPA 3005 Dissolved	10	11/13/2013 20:33	CMB	519915

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**655**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.35**	**0.20**	**0.050**	**mg/L**
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**2200**	**2.00**	**0.50**	**mg/L**
7439-96-5	Manganese	0.038U	0.15	0.038	mg/L
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**67.0**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.63**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 12:30	519409	EPA 3005 Dissolved	100	11/15/2013 14:34	CMB	520112

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**10600**	**100**	**25.0**	**mg/L**

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Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/11/2013 17:18	BNW	519786

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**33500**	**100**	**43.9**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	11/06/2013 17:15	JEM	519406

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**12.9**	**10.0**	**2.50**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061103	**SD08-MW13A**	Water	11/04/2013 13:50	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 11:36	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061103	**SD08-MW13A**	Water	11/04/2013 13:50	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 11:36	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.3	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	51	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	51.8	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.9	ug/L	108	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519415	EPA 7470A Dissolved	1	11/11/2013 16:20	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519414	EPA 7470A	1	11/11/2013 13:58	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061103	**SD08-MW13A**	Water	11/04/2013 13:50	11/06/2013 10:30

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 12:30	519409	EPA 3005 Dissolved	10	11/13/2013 20:39	CMB	519915

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**674**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.32**	**0.20**	**0.050**	**mg/L**
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**2270**	**2.00**	**0.50**	**mg/L**
7439-96-5	Manganese	0.038U	0.15	0.038	mg/L
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**68.6**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.63**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 12:30	519409	EPA 3005 Dissolved	100	11/15/2013 14:40	CMB	520112

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**10500**	**100**	**25.0**	**mg/L**

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/11/2013 17:18	BNW	519786

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**37200**	**100**	**43.9**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	11/06/2013 17:32	JEM	519406

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**11.9**	**10.0**	**2.50**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061104	**SD08-MW12**	Water	11/04/2013 15:05	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 12:56	CLH	519587

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061104	**SD08-MW12**	Water	11/04/2013 15:05	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 12:56	CLH	519587

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	51.8	ug/L	104	87 - 116
2037-26-5	Toluene d8	50	51.2	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	54.4	ug/L	109	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519415	EPA 7470A Dissolved	1	11/11/2013 16:22	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519414	EPA 7470A	1	11/11/2013 14:00	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061104	**SD08-MW12**	Water	11/04/2013 15:05	11/06/2013 10:30

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 12:30	519409	EPA 3005 Dissolved	10	11/13/2013 20:46	CMB	519915

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**593**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.37**	**0.20**	**0.050**	**mg/L**
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**2890**	**2.00**	**0.50**	**mg/L**
7439-96-5	**Manganese**	**0.066J**	**0.15**	**0.038**	**mg/L**
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**85.1**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.60**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 12:30	519409	EPA 3005 Dissolved	100	11/15/2013 14:47	CMB	520112

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**15300**	**100**	**25.0**	**mg/L**

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/07/2013 14:50	BNW	519497

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**59200**	**100**	**43.9**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	11/06/2013 17:50	JEM	519406

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**21.7**	**20.0**	**5.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061105	**MW-08-06**	Water	11/05/2013 08:00	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 10:37	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061105	**MW-08-06**	Water	11/05/2013 08:00	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 10:37	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.7	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	51.9	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.9	ug/L	104	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519415	EPA 7470A Dissolved	1	11/11/2013 16:27	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519414	EPA 7470A	1	11/11/2013 13:40	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061105	**MW-08-06**	Water	11/05/2013 08:00	11/06/2013 10:30

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 12:30	519409	EPA 3005 Dissolved	10	11/13/2013 19:34	CMB	519915

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	**Arsenic**	**0.072J**	**0.20**	**0.050**	**mg/L**
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**494**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.26**	**0.20**	**0.050**	**mg/L**
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**838**	**2.00**	**0.50**	**mg/L**
7439-96-5	Manganese	0.038U	0.15	0.038	mg/L
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**23.5**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-23-5	**Sodium**	**4560**	**10.0**	**2.50**	**mg/L**
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.55**	**0.20**	**0.050**	**mg/L**
7440-66-6	**Zinc**	**0.16J**	**0.20**	**0.050**	**mg/L**

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/09/2013 13:51	BNW	519691

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**17600**	**100**	**43.9**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	11/06/2013 18:08	JEM	519406

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**16.7**	**10.0**	**2.50**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061106	**MW-08-06-MS**	Water	11/05/2013 08:00	11/06/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 16:15	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	53.5	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	57.9	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	51.0	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	53.5	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	57.0	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	59.4	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	53.4	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	51.2	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	43.3	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	48.0	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	49.7	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	51.2	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	50.1	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	55.5	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	113	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	56.2	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	47.6	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	52.0	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	51.5	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	48.7	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	56.4	5.00	0.170	ug/L
78-93-3	2-Butanone	43.3	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	52.7	5.00	0.080	ug/L
591-78-6	2-Hexanone	42.3	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	53.8	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	47.8	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	54.9	5.00	0.120	ug/L
67-64-1	Acetone	29.2	5.00	0.193	ug/L
71-43-2	Benzene	58.5	5.00	0.111	ug/L
108-86-1	Bromobenzene	52.5	5.00	0.145	ug/L
74-97-5	Bromochloromethane	60.6	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	54.0	5.00	0.083	ug/L
75-25-2	Bromoform	49.2	5.00	0.215	ug/L
74-83-9	Bromomethane	38.4	5.00	0.427	ug/L
75-15-0	Carbon disulfide	55.7	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	58.3	5.00	0.248	ug/L
108-90-7	Chlorobenzene	51.0	5.00	0.083	ug/L
75-00-3	Chloroethane	53.2	5.00	0.235	ug/L
67-66-3	Chloroform	56.2	5.00	0.155	ug/L
74-87-3	Chloromethane	50.5	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	50.9	5.00	0.054	ug/L
74-95-3	Dibromomethane	53.8	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	56.9	5.00	0.145	ug/L
100-41-4	Ethylbenzene	55.4	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	51.2	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	48.1	5.00	0.130	ug/L
74-88-4	Methyl iodide	37.4	5.00	0.084	ug/L
75-09-2	Methylene chloride	53.9	5.00	0.149	ug/L
91-20-3	Naphthalene	41.8	5.00	0.176	ug/L
100-42-5	Styrene	47.6	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061106	**MW-08-06-MS**	Water	11/05/2013 08:00	11/06/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 16:15	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**54.8**	**5.00**	**0.193**	**ug/L**
108-88-3	**Toluene**	**51.4**	**5.00**	**0.122**	**ug/L**
79-01-6	**Trichloroethene**	**56.5**	**5.00**	**0.161**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**71.5**	**5.00**	**0.157**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**58.4**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**55.9**	**5.00**	**0.127**	**ug/L**
1330-20-7	**Xylene (total)**	**145**	**15.0**	**0.179**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**55.7**	**5.00**	**0.103**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**49.8**	**5.00**	**0.124**	**ug/L**
136777-61-2	**m,p-Xylene**	**97.0**	**10.0**	**0.123**	**ug/L**
104-51-8	**n-Butylbenzene**	**46.3**	**5.00**	**0.123**	**ug/L**
103-65-1	**n-Propylbenzene**	**48.4**	**5.00**	**0.727**	**ug/L**
95-47-6	**o-Xylene**	**47.8**	**5.00**	**0.055**	**ug/L**
135-98-8	**sec-Butylbenzene**	**48.6**	**5.00**	**0.107**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**60.6**	**5.00**	**0.078**	**ug/L**
98-06-6	**tert-Butylbenzene**	**48.1**	**5.00**	**0.087**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**57.2**	**5.00**	**0.077**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**51.0**	**5.00**	**0.128**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**63.0**	**5.00**	**0.264**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.1	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	50.9	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	48.2	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.8	ug/L	108	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519415	EPA 7470A Dissolved	1	11/11/2013 16:29	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0031**	**0.00020**	**0.000070**	**mg/L**

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519414	EPA 7470A	1	11/11/2013 13:42	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0033**	**0.00020**	**0.000070**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061106	**MW-08-06-MS**	Water	11/05/2013 08:00	11/06/2013 10:30

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 12:30	519409	EPA 3005 Dissolved	10	11/13/2013 19:41	CMB	519915

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.82	2.00	0.50	mg/L
7440-36-0	Antimony	0.58J	0.60	0.15	mg/L
7440-38-2	Arsenic	0.47	0.20	0.050	mg/L
7440-39-3	Barium	0.19	0.10	0.025	mg/L
7440-41-7	Beryllium	0.49	0.040	0.010	mg/L
7440-43-9	Cadmium	0.50	0.050	0.013	mg/L
7440-70-2	Calcium	503	8.00	2.00	mg/L
7440-47-3	Chromium	0.52	0.10	0.025	mg/L
7440-48-4	Cobalt	0.49	0.10	0.025	mg/L
7440-50-8	Copper	0.73	0.20	0.050	mg/L
7439-89-6	Iron	5.00	2.00	0.50	mg/L
7439-92-1	Lead	0.40	0.15	0.038	mg/L
7439-95-4	Magnesium	845	2.00	0.50	mg/L
7439-96-5	Manganese	0.52	0.15	0.038	mg/L
7440-02-0	Nickel	0.52	0.40	0.10	mg/L
7440-09-7	Potassium	34.5	5.00	1.25	mg/L
7782-49-2	Selenium	0.51	0.40	0.10	mg/L
7440-22-4	Silver	0.39	0.10	0.025	mg/L
7440-23-5	Sodium	4640	10.0	2.50	mg/L
7440-28-0	Thallium	0.53	0.20	0.050	mg/L
7440-62-2	Vanadium	1.06	0.20	0.050	mg/L
7440-66-6	Zinc	0.47	0.20	0.050	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	11/06/2013 18:25	JEM	519406

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	129	10.0	2.50	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061107	**MW-08-06-MSD**	Water	11/05/2013 08:00	11/06/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 16:35	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	52.4	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	55.1	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	54.1	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	54.4	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	53.8	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	55.9	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	50.2	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	54.3	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	47.6	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	46.9	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	53.5	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	53.4	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	50.2	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	53.4	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	109	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	53.8	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	47.2	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	51.5	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	52.9	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	48.1	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	53.0	5.00	0.170	ug/L
78-93-3	2-Butanone	45.4	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	52.1	5.00	0.080	ug/L
591-78-6	2-Hexanone	47.9	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	53.3	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	47.9	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	58.2	5.00	0.120	ug/L
67-64-1	Acetone	30.8	5.00	0.193	ug/L
71-43-2	Benzene	54.1	5.00	0.111	ug/L
108-86-1	Bromobenzene	51.6	5.00	0.145	ug/L
74-97-5	Bromochloromethane	55.5	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	51.4	5.00	0.083	ug/L
75-25-2	Bromoform	50.7	5.00	0.215	ug/L
74-83-9	Bromomethane	41.6	5.00	0.427	ug/L
75-15-0	Carbon disulfide	52.5	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	55.2	5.00	0.248	ug/L
108-90-7	Chlorobenzene	50.2	5.00	0.083	ug/L
75-00-3	Chloroethane	48.8	5.00	0.235	ug/L
67-66-3	Chloroform	52.3	5.00	0.155	ug/L
74-87-3	Chloromethane	50.6	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	52.2	5.00	0.054	ug/L
74-95-3	Dibromomethane	52.6	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	54.4	5.00	0.145	ug/L
100-41-4	Ethylbenzene	53.6	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	52.9	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	47.8	5.00	0.130	ug/L
74-88-4	Methyl iodide	38.6	5.00	0.084	ug/L
75-09-2	Methylene chloride	51.6	5.00	0.149	ug/L
91-20-3	Naphthalene	49.3	5.00	0.176	ug/L
100-42-5	Styrene	46.1	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061107	**MW-08-06-MSD**	Water	11/05/2013 08:00	11/06/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 16:35	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	**Tetrachloroethene**	**52.7**	**5.00**	**0.193**	**ug/L**
108-88-3	**Toluene**	**49.6**	**5.00**	**0.122**	**ug/L**
79-01-6	**Trichloroethene**	**53.7**	**5.00**	**0.161**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**65.9**	**5.00**	**0.157**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**54.0**	**5.00**	**0.158**	**ug/L**
75-01-4	**Vinyl chloride**	**54.0**	**5.00**	**0.127**	**ug/L**
1330-20-7	**Xylene (total)**	**144**	**15.0**	**0.179**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**53.9**	**5.00**	**0.103**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**48.0**	**5.00**	**0.124**	**ug/L**
136777-61-2	**m,p-Xylene**	**96.5**	**10.0**	**0.123**	**ug/L**
104-51-8	**n-Butylbenzene**	**46.7**	**5.00**	**0.123**	**ug/L**
103-65-1	**n-Propylbenzene**	**47.5**	**5.00**	**0.727**	**ug/L**
95-47-6	**o-Xylene**	**47.1**	**5.00**	**0.055**	**ug/L**
135-98-8	**sec-Butylbenzene**	**48.2**	**5.00**	**0.107**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**59.9**	**5.00**	**0.078**	**ug/L**
98-06-6	**tert-Butylbenzene**	**47.7**	**5.00**	**0.087**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**55.2**	**5.00**	**0.077**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**48.9**	**5.00**	**0.128**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**70.5**	**5.00**	**0.264**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.1	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	47.9	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.6	ug/L	101	76 - 127

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519415	EPA 7470A Dissolved	1	11/11/2013 16:31	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0032**	**0.00020**	**0.000070**	**mg/L**

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519414	EPA 7470A	1	11/11/2013 13:44	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0034**	**0.00020**	**0.000070**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061107	**MW-08-06-MSD**	Water	11/05/2013 08:00	11/06/2013 10:30

SW-846 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 12:30	519409	EPA 3005 Dissolved	10	11/13/2013 19:49	CMB	519915

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4.76	2.00	0.50	mg/L
7440-36-0	Antimony	0.58J	0.60	0.15	mg/L
7440-38-2	Arsenic	0.58	0.20	0.050	mg/L
7440-39-3	Barium	0.14	0.10	0.025	mg/L
7440-41-7	Beryllium	0.50	0.040	0.010	mg/L
7440-43-9	Cadmium	0.50	0.050	0.013	mg/L
7440-70-2	Calcium	500	8.00	2.00	mg/L
7440-47-3	Chromium	0.52	0.10	0.025	mg/L
7440-48-4	Cobalt	0.49	0.10	0.025	mg/L
7440-50-8	Copper	0.74	0.20	0.050	mg/L
7439-89-6	Iron	5.17	2.00	0.50	mg/L
7439-92-1	Lead	0.41	0.15	0.038	mg/L
7439-95-4	Magnesium	849	2.00	0.50	mg/L
7439-96-5	Manganese	0.52	0.15	0.038	mg/L
7440-02-0	Nickel	0.53	0.40	0.10	mg/L
7440-09-7	Potassium	34.9	5.00	1.25	mg/L
7782-49-2	Selenium	0.52	0.40	0.10	mg/L
7440-22-4	Silver	0.39	0.10	0.025	mg/L
7440-23-5	Sodium	4740	10.0	2.50	mg/L
7440-28-0	Thallium	0.48	0.20	0.050	mg/L
7440-62-2	Vanadium	1.08	0.20	0.050	mg/L
7440-66-6	Zinc	0.48	0.20	0.050	mg/L

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	11/06/2013 18:43	JEM	519406

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	128	10.0	2.50	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061108	**MW-08-04**	Water	11/05/2013 09:50	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 13:16	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061108	**MW-08-04**	Water	11/05/2013 09:50	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 13:16	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.7	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	51.6	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	53.5	ug/L	107	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.9	ug/L	104	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519415	EPA 7470A Dissolved	1	11/11/2013 16:32	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519414	EPA 7470A	1	11/11/2013 14:02	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061108	**MW-08-04**	Water	11/05/2013 09:50	11/06/2013 10:30

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 12:30	519409	EPA 3005 Dissolved	1	11/15/2013 14:54	CMB	520112

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.0074J**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.011**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**489**	**0.80**	**0.20**	**mg/L**
7440-47-3	**Chromium**	**0.015**	**0.010**	**0.0025**	**mg/L**
7440-48-4	**Cobalt**	**0.0034J**	**0.010**	**0.0025**	**mg/L**
7440-50-8	Copper	0.0050U	0.020	0.0050	mg/L
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**280**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**0.0044J**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**18.4**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-23-5	**Sodium**	**512**	**1.00**	**0.25**	**mg/L**
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.047**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/09/2013 13:51	BNW	519691

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3080**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	11/06/2013 19:01	JEM	519406

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**3.90**	**1.00**	**0.250**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061109	**MW-08-05**	Water	11/05/2013 10:50	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 13:36	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061109	**MW-08-05**	Water	11/05/2013 10:50	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 13:36	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.2	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	52	ug/L	104	87 - 116
2037-26-5	Toluene d8	50	51.9	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.6	ug/L	105	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519415	EPA 7470A Dissolved	1	11/11/2013 16:34	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519414	EPA 7470A	1	11/11/2013 14:04	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061109	**MW-08-05**	Water	11/05/2013 10:50	11/06/2013 10:30

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 12:30	519409	EPA 3005 Dissolved	1	11/15/2013 15:01	CMB	520112

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	Arsenic	0.0050U	0.020	0.0050	mg/L
7440-39-3	**Barium**	**0.019**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**616**	**0.80**	**0.20**	**mg/L**
7440-47-3	Chromium	0.0025U	0.010	0.0025	mg/L
7440-48-4	**Cobalt**	**0.0041J**	**0.010**	**0.0025**	**mg/L**
7440-50-8	Copper	0.0050U	0.020	0.0050	mg/L
7439-89-6	**Iron**	**1.31**	**0.20**	**0.050**	**mg/L**
7439-92-1	**Lead**	**0.0062J**	**0.015**	**0.0038**	**mg/L**
7439-95-4	**Magnesium**	**49.3**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**0.13**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**7.21**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-23-5	**Sodium**	**22.2**	**1.00**	**0.25**	**mg/L**
7440-28-0	Thallium	0.0050U	0.020	0.0050	mg/L
7440-62-2	**Vanadium**	**0.013J**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/09/2013 13:51	BNW	519691

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2510**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	11/06/2013 19:18	JEM	519406

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.100U	0.400	0.100	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061110	**S10-MW01**	Water	11/05/2013 11:55	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 13:56	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**22.0**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061110	**S10-MW01**	Water	11/05/2013 11:55	11/06/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 13:56	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.6	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.4	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519415	EPA 7470A Dissolved	1	11/11/2013 16:36	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 13:50	519414	EPA 7470A	1	11/11/2013 14:05	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061110	**S10-MW01**	Water	11/05/2013 11:55	11/06/2013 10:30

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/06/2013 12:30	519409	EPA 3005 Dissolved	10	11/13/2013 21:07	CMB	519915

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**488**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	**Copper**	**0.21**	**0.20**	**0.050**	**mg/L**
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**528**	**2.00**	**0.50**	**mg/L**
7439-96-5	**Manganese**	**0.28**	**0.15**	**0.038**	**mg/L**
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**16.4**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-23-5	**Sodium**	**2580**	**10.0**	**2.50**	**mg/L**
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.53**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/09/2013 13:51	BNW	519691

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**11000**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	11/06/2013 19:36	JEM	519406

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**5.62**	**4.00**	**1.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061111	**TRIP BLANK**	Water	11/04/2013 00:00	11/06/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 14:16	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	**Methylene chloride**	**1.51J**	**5.00**	**0.149**	**ug/L**
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311061111	**TRIP BLANK**	Water	11/04/2013 00:00	11/06/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/08/2013 14:16	LBH	519587

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.2	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	51.9	ug/L	104	87 - 116
2037-26-5	Toluene d8	50	51.5	ug/L	103	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.6	ug/L	103	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch	519587	**Client ID**	MB519587			LCS519587			LCSD519587		
Prep Batch	N/A	**GCAL ID**	1254546			1254547			1254548		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	11/08/2013 10:16			11/08/2013 08:56			11/08/2013 09:16		
		Matrix	Water			Water			Water		
EPA 8260B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.193U	0.193		50.0	55.5	111	59 - 134	54.9	110	1	30
74-97-5	Bromochloromethane	0.127U	0.127		50.0	58.1	**116***	78 - 112	54.7	109	6	30
75-27-4	Bromodichloromethane	0.083U	0.083		50.0	52.6	105	76 - 116	53.4	107	2	30
75-25-2	Bromoform	0.215U	0.215		50.0	50.3	101	68 - 128	48.2	96	4	30
74-83-9	Bromomethane	0.427U	0.427		50.0	45.3	91	55 - 151	47.9	96	6	30
75-15-0	Carbon disulfide	0.190U	0.190		50.0	56.0	112	67 - 147	56.6	113	1	30
56-23-5	Carbon tetrachloride	0.248U	0.248		50.0	58.1	116	74 - 139	58.4	117	1	30
75-00-3	Chloroethane	0.235U	0.235		50.0	50.4	101	54 - 166	51.8	104	3	30
136777-61-2	m,p-Xylene	0.123U	0.123		100	101	101	83 - 121	100	100	1	30
67-66-3	Chloroform	0.155U	0.155		50.0	54.5	109	85 - 123	53.2	106	2	30
74-87-3	Chloromethane	0.144U	0.144		50.0	51.3	103	55 - 173	53.8	108	5	30
124-48-1	Dibromochloromethane	0.054U	0.054		50.0	52.6	105	74 - 116	51.4	103	2	30
74-95-3	Dibromomethane	0.211U	0.211		50.0	54.1	108	81 - 116	52.7	105	3	30
75-71-8	Dichlorodifluoromethane	0.145U	0.145		50.0	57.2	114	34 - 158	56.5	113	1	30
75-34-3	1,1-Dichloroethane	0.171U	0.171		50.0	56.9	114	82 - 127	57.2	114	1	30
107-06-2	1,2-Dichloroethane	0.116U	0.116		50.0	54.0	108	76 - 122	53.7	107	1	30
156-59-2	cis-1,2-Dichloroethene	0.103U	0.103		50.0	56.0	112	81 - 114	57.2	114	2	30
156-60-5	trans-1,2-Dichloroethene	0.077U	0.077		50.0	56.8	114	82 - 126	58.0	116	2	30
75-09-2	Methylene chloride	0.149U	0.149		50.0	53.0	106	69 - 125	52.6	105	1	30
78-87-5	1,2-Dichloropropane	0.150U	0.150		50.0	58.5	117	81 - 120	56.6	113	3	30
10061-01-5	cis-1,3-Dichloropropene	0.124U	0.124		50.0	49.9	100	83 - 119	50.2	100	1	30
10061-02-6	trans-1,3-Dichloropropene	0.128U	0.128		50.0	50.3	101	87 - 123	49.9	100	1	30
100-41-4	Ethylbenzene	0.109U	0.109		50.0	57.6	115	87 - 118	56.8	114	1	30
591-78-6	2-Hexanone	0.122U	0.122		50.0	50.2	100	58 - 125	48.9	98	3	30
98-82-8	Isopropylbenzene (Cumene)	0.130U	0.130		50.0	50.1	100	87 - 131	50.7	101	1	30
78-93-3	2-Butanone	0.142U	0.142		50.0	57.7	115	61 - 127	56.8	114	2	30
74-88-4	Methyl iodide	0.084U	0.084		50.0	48.0	96	72 - 125	47.7	95	1	30
108-10-1	4-Methyl-2-pentanone	0.120U	0.120		50.0	50.3	101	62 - 125	48.9	98	3	30
103-65-1	n-Propylbenzene	0.727U	0.727		50.0	49.4	99	86 - 125	49.3	99	0	30
100-42-5	Styrene	0.089U	0.089		50.0	49.0	98	78 - 118	49.2	98	0	30
127-18-4	Tetrachloroethene	0.193U	0.193		50.0	56.0	112	80 - 131	56.8	114	1	30
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	0.120		50.0	55.1	110	81 - 119	53.3	107	3	30
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	0.109		50.0	50.5	101	71 - 120	47.2	94	7	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	519587	**Client ID**	MB519587			LCS519587			LCSD519587		
Prep Batch	N/A	**GCAL ID**	1254546			1254547			1254548		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	11/08/2013 10:16			11/08/2013 08:56			11/08/2013 09:16		
		Matrix	Water			Water			Water		
EPA 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	0.105U	0.105	50.0	51.0	102	68 - 123	51.4	103	1	30
71-55-6	1,1,1-Trichloroethane	0.123U	0.123	50.0	56.9	114	79 - 133	57.3	115	1	30
79-00-5	1,1,2-Trichloroethane	0.159U	0.159	50.0	55.6	111	80 - 114	55.7	111	0	30
75-69-4	Trichlorofluoromethane	0.157U	0.157	50.0	71.0	142	66 - 156	71.8	144	1	30
96-18-4	1,2,3-Trichloropropane	0.065U	0.065	50.0	49.8	100	77 - 115	48.7	97	2	30
95-63-6	1,2,4-Trimethylbenzene	0.084U	0.084	50.0	49.8	100	82 - 120	49.5	99	1	30
108-67-8	1,3,5-Trimethylbenzene	0.066U	0.066	50.0	50.4	101	83 - 123	49.8	100	1	30
75-01-4	Vinyl chloride	0.127U	0.127	50.0	57.7	115	57 - 153	59.4	119	3	30
95-47-6	o-Xylene	0.055U	0.055	50.0	50.3	101	83 - 121	50.2	100	0	30
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	0.194	50.0	50.8	102	61 - 118	48.2	96	5	30
106-93-4	1,2-Dibromoethane	0.102U	0.102	50.0	53.6	107	80 - 115	51.8	104	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078	50.0	58.9	**118***	75 - 116	58.0	116	2	30
540-59-0	1,2-Dichloroethene(Total)	0.180U	0.180	100	113	113	74 - 128	115	115	2	30
99-87-6	4-Isopropyltoluene	0.070U	0.070	50.0	50.0	100	83 - 125	49.9	100	0	30
1330-20-7	Xylene (total)	0.179U	0.179	150	151	101	74 - 127	150	100	1	30
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	0.264	50.0	58.5	117	51 - 137	53.5	107	9	30
594-20-7	2,2-Dichloropropane	0.170U	0.170	50.0	54.1	108	77 - 138	55.4	111	2	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158	50.0	57.1	114	74 - 139	57.9	116	1	30
563-58-6	1,1-Dichloropropene	0.052U	0.052	50.0	53.8	108	87 - 127	54.1	108	1	30
142-28-9	1,3-Dichloropropane	0.059U	0.059	50.0	53.8	108	81 - 113	52.1	104	3	30
108-86-1	Bromobenzene	0.145U	0.145	50.0	52.9	106	83 - 115	53.6	107	1	30
95-49-8	2-Chlorotoluene	0.080U	0.080	50.0	55.0	110	81 - 121	54.1	108	2	30
106-43-4	4-Chlorotoluene	0.124U	0.124	50.0	56.0	112	84 - 120	54.5	109	3	30
98-06-6	tert-Butylbenzene	0.087U	0.087	50.0	49.5	99	83 - 126	50.1	100	1	30
135-98-8	sec-Butylbenzene	0.107U	0.107	50.0	51.0	102	86 - 127	50.8	102	0	30
541-73-1	1,3-Dichlorobenzene	0.138U	0.138	50.0	53.8	108	86 - 115	52.3	105	3	30
106-46-7	1,4-Dichlorobenzene	0.083U	0.083	50.0	50.3	101	87 - 113	50.5	101	0	30
104-51-8	n-Butylbenzene	0.123U	0.123	50.0	49.8	100	84 - 124	50.1	100	1	30
95-50-1	1,2-Dichlorobenzene	0.135U	0.135	50.0	52.8	106	85 - 115	51.9	104	2	30
87-68-3	Hexachlorobutadiene	0.265U	0.265	50.0	56.8	114	71 - 133	55.8	112	2	30
91-20-3	Naphthalene	0.176U	0.176	50.0	48.6	97	59 - 125	47.1	94	3	35
75-35-4	1,1-Dichloroethene	0.208U	0.208	50.0	57.3	115	75 - 133	60.5	121	5	20
71-43-2	Benzene	0.111U	0.111	50.0	56.9	114	83 - 124	57.7	115	1	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	519587	**Client ID**	MB519587			LCS519587			LCSD519587		
Prep Batch	N/A	**GCAL ID**	1254546			1254547			1254548		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	11/08/2013 10:16			11/08/2013 08:56			11/08/2013 09:16		
		Matrix	Water			Water			Water		
EPA 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.161U	0.161	50.0	56.8	114	85 - 124	56.1	112	1	20
108-88-3	Toluene		0.122U	0.122	50.0	52.9	106	86 - 116	53.1	106	0	20
108-90-7	Chlorobenzene		0.083U	0.083	50.0	52.7	105	87 - 115	52.2	104	1	20
Surrogate												
460-00-4	4-Bromofluorobenzene		49.5	99	50	50.7	101	84 - 120	50.7	101		
1868-53-7	Dibromofluoromethane		49.9	100	50	50.6	101	87 - 116	49.6	99		
2037-26-5	Toluene d8		52	104	50	49.6	99	86 - 112	49.3	99		
17060-07-0	1,2-Dichloroethane-d4		49.1	98	50	49.5	99	76 - 127	49	98		

Analytical Batch	519587	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch	N/A	**GCAL ID**	21311061105			21311061106			21311061107		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	11/08/2013 10:37			11/08/2013 16:15			11/08/2013 16:35		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**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	0.120	50.0	53.5	107	81 - 119	52.4	105	2	10
71-55-6	1,1,1-Trichloroethane		0.00	0.123	50.0	57.9	116	79 - 133	55.1	110	5	11
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.109	50.0	51.0	102	71 - 120	54.1	108	6	11
79-00-5	1,1,2-Trichloroethane		0.00	0.159	50.0	53.5	107	80 - 114	54.4	109	2	11
75-34-3	1,1-Dichloroethane		0.00	0.171	50.0	57.0	114	82 - 127	53.8	108	6	10
75-35-4	1,1-Dichloroethene		0.00	0.208	50.0	59.4	119	75 - 133	55.9	112	6	13
563-58-6	1,1-Dichloropropene		0.00	0.052	50.0	53.4	107	87 - 127	50.2	100	6	10
96-18-4	1,2,3-Trichloropropane		0.00	0.065	50.0	51.2	102	77 - 115	54.3	109	6	12
120-82-1	1,2,4-Trichlorobenzene		0.00	0.105	50.0	43.3	87	68 - 123	47.6	95	9	11
95-63-6	1,2,4-Trimethylbenzene		0.00	0.084	50.0	48.0	96	82 - 120	46.9	94	2	10
96-12-8	1,2-Dibromo-3-chloropropane		0.00	0.194	50.0	49.7	99	61 - 118	53.5	107	7	15
106-93-4	1,2-Dibromoethane		0.00	0.102	50.0	51.2	102	80 - 115	53.4	107	4	10
95-50-1	1,2-Dichlorobenzene		0.00	0.135	50.0	50.1	100	85 - 115	50.2	100	0	9
107-06-2	1,2-Dichloroethane		0.00	0.116	50.0	55.5	111	76 - 122	53.4	107	4	11
540-59-0	1,2-Dichloroethene(Total)		0.00	0.180	100	113	113	74 - 128	109	109	4	30
78-87-5	1,2-Dichloropropane		0.00	0.150	50.0	56.2	112	81 - 120	53.8	108	4	11

GC/MS Volatiles Quality Control Summary

Analytical Batch	519587	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD			
Prep Batch	N/A	**GCAL ID**	21311061105			21311061106			21311061107			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	11/08/2013 10:37			11/08/2013 16:15			11/08/2013 16:35			
		Matrix	Water			Water			Water			
SW-846 8260B Water		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
108-67-8	1,3,5-Trimethylbenzene	0.00	0.066		50.0	47.6	95	83 - 123	47.2	94	1	10
541-73-1	1,3-Dichlorobenzene	0.00	0.138		50.0	52.0	104	86 - 115	51.5	103	1	9
142-28-9	1,3-Dichloropropane	0.00	0.059		50.0	51.5	103	81 - 113	52.9	106	3	11
106-46-7	1,4-Dichlorobenzene	0.00	0.083		50.0	48.7	97	87 - 113	48.1	96	1	10
594-20-7	2,2-Dichloropropane	0.00	0.170		50.0	56.4	113	77 - 138	53.0	106	6	12
78-93-3	2-Butanone	0.00	0.142		50.0	43.3	87	61 - 127	45.4	91	5	13
95-49-8	2-Chlorotoluene	0.00	0.080		50.0	52.7	105	81 - 121	52.1	104	1	10
591-78-6	2-Hexanone	0.00	0.122		50.0	42.3	85	58 - 125	47.9	96	12	14
106-43-4	4-Chlorotoluene	0.00	0.124		50.0	53.8	108	84 - 120	53.3	107	1	10
99-87-6	4-Isopropyltoluene	0.00	0.070		50.0	47.8	96	83 - 125	47.9	96	0	9
108-10-1	4-Methyl-2-pentanone	0.00	0.120		50.0	54.9	110	62 - 125	58.2	116	6	13
67-64-1	Acetone	0.00	0.193		50.0	29.2	**58***	59 - 134	30.8	62	5	14
71-43-2	Benzene	0.00	0.111		50.0	58.5	117	83 - 124	54.1	108	8	11
108-86-1	Bromobenzene	0.00	0.145		50.0	52.5	105	83 - 115	51.6	103	2	10
74-97-5	Bromochloromethane	0.00	0.127		50.0	60.6	**121***	78 - 112	55.5	111	9	10
75-27-4	Bromodichloromethane	0.00	0.083		50.0	54.0	108	76 - 116	51.4	103	5	10
75-25-2	Bromoform	0.00	0.215		50.0	49.2	98	68 - 128	50.7	101	3	11
74-83-9	Bromomethane	0.00	0.427		50.0	38.4	77	55 - 151	41.6	83	8	21
75-15-0	Carbon disulfide	0.00	0.190		50.0	55.7	111	67 - 147	52.5	105	6	12
56-23-5	Carbon tetrachloride	0.00	0.248		50.0	58.3	117	74 - 139	55.2	110	5	13
108-90-7	Chlorobenzene	0.00	0.083		50.0	51.0	102	87 - 115	50.2	100	2	9
75-00-3	Chloroethane	0.00	0.235		50.0	53.2	106	54 - 166	48.8	98	9	20
67-66-3	Chloroform	0.00	0.155		50.0	56.2	112	85 - 123	52.3	105	7	10
74-87-3	Chloromethane	0.00	0.144		50.0	50.5	101	55 - 173	50.6	101	0	22
124-48-1	Dibromochloromethane	0.00	0.054		50.0	50.9	102	74 - 116	52.2	104	3	11
74-95-3	Dibromomethane	0.00	0.211		50.0	53.8	108	81 - 116	52.6	105	2	10
75-71-8	Dichlorodifluoromethane	0.00	0.145		50.0	56.9	114	34 - 158	54.4	109	4	22
100-41-4	Ethylbenzene	0.00	0.109		50.0	55.4	111	87 - 118	53.6	107	3	10
87-68-3	Hexachlorobutadiene	0.00	0.265		50.0	51.2	102	71 - 133	52.9	106	3	12
98-82-8	Isopropylbenzene (Cumene)	0.00	0.130		50.0	48.1	96	87 - 131	47.8	96	1	10
74-88-4	Methyl iodide	0.00	0.084		50.0	37.4	75	72 - 125	38.6	77	3	11
75-09-2	Methylene chloride	0.00	0.149		50.0	53.9	108	69 - 125	51.6	103	4	11
91-20-3	Naphthalene	0.00	0.176		50.0	41.8	84	59 - 125	49.3	99	**16***	15

GC/MS Volatiles Quality Control Summary

Analytical Batch 519587		**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD		
Prep Batch N/A		**GCAL ID**	21311061105			21311061106			21311061107		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	11/08/2013 10:37			11/08/2013 16:15			11/08/2013 16:35		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-42-5	Styrene		0.00	0.089	50.0	47.6	95	78 - 118	46.1	92	3	11
127-18-4	Tetrachloroethene		0.00	0.193	50.0	54.8	110	80 - 131	52.7	105	4	12
108-88-3	Toluene		0.00	0.122	50.0	51.4	103	86 - 116	49.6	99	4	10
79-01-6	Trichloroethene		0.00	0.161	50.0	56.5	113	85 - 124	53.7	107	5	10
75-69-4	Trichlorofluoromethane		0.00	0.157	50.0	71.5	143	66 - 156	65.9	132	8	15
76-13-1	Trichlorotrifluoroethane		0.00	0.158	50.0	58.4	117	74 - 139	54.0	108	8	13
75-01-4	Vinyl chloride		0.00	0.127	50.0	55.9	112	57 - 153	54.0	108	3	22
1330-20-7	Xylene (total)		0.00	0.179	150	145	97	74 - 127	144	96	1	30
156-59-2	cis-1,2-Dichloroethene		0.00	0.103	50.0	55.7	111	81 - 114	53.9	108	3	10
10061-01-5	cis-1,3-Dichloropropene		0.00	0.124	50.0	49.8	100	83 - 119	48.0	96	4	10
136777-61-2	m,p-Xylene		0.00	0.123	100	97.0	97	83 - 121	96.5	97	1	10
104-51-8	n-Butylbenzene		0.00	0.123	50.0	46.3	93	84 - 124	46.7	93	1	10
103-65-1	n-Propylbenzene		0.00	0.727	50.0	48.4	97	86 - 125	47.5	95	2	10
95-47-6	o-Xylene		0.00	0.055	50.0	47.8	96	83 - 121	47.1	94	1	10
135-98-8	sec-Butylbenzene		0.00	0.107	50.0	48.6	97	86 - 127	48.2	96	1	10
1634-04-4	tert-Butyl methyl ether (MTBE)		0.00	0.078	50.0	60.6	**121***	75 - 116	59.9	**120***	1	10
98-06-6	tert-Butylbenzene		0.00	0.087	50.0	48.1	96	83 - 126	47.7	95	1	10
156-60-5	trans-1,2-Dichloroethene		0.00	0.077	50.0	57.2	114	82 - 126	55.2	110	4	10
10061-02-6	trans-1,3-Dichloropropene		0.00	0.128	50.0	51.0	102	87 - 123	48.9	98	4	10
110-57-6	trans-1,4-Dichloro-2-butene		0.00	0.264	50.0	63.0	126	51 - 137	70.5	**141***	11	24
Surrogate												
460-00-4	4-Bromofluorobenzene		48.7	97	50	51.1	102	84 - 120	51.1	102		
1868-53-7	Dibromofluoromethane		49.9	100	50	50.9	102	87 - 116	49.6	99		
2037-26-5	Toluene d8		51.9	104	50	48.2	96	86 - 112	47.9	96		
17060-07-0	1,2-Dichloroethane-d4		51.9	104	50	53.8	108	76 - 127	50.6	101		

GC/MS Volatiles Quality Control Summary

Analytical Batch	519587	**Client ID**	CM02-200S		MATRIX SPIKEMS			MATRIX SPIKE DUPLICATE			
Prep Batch	N/A	**GCAL ID**	21311071704		21311071706			21311071707			
		Sample Type	SAMPLE		MS			MSD			
		Analytical Date	11/08/2013 14:55		11/08/2013 16:55			11/08/2013 17:14			
		Matrix	Water		Water			Water			
EPA 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
74-83-9	Bromomethane	0.00	0.427	50.0	42.4	85	55 - 151	47.6	95	12	21
56-23-5	Carbon tetrachloride	0.00	0.248	50.0	56.4	113	74 - 139	58.6	117	4	13
75-00-3	Chloroethane	0.00	0.235	50.0	51.1	102	54 - 166	50.7	101	1	20
67-66-3	Chloroform	0.00	0.155	50.0	52.5	105	85 - 123	55.9	112	6	10
74-87-3	Chloromethane	0.00	0.144	50.0	52.0	104	55 - 173	52.8	106	2	22
75-34-3	1,1-Dichloroethane	0.00	0.171	50.0	57.2	114	82 - 127	57.8	116	1	10
107-06-2	1,2-Dichloroethane	0.00	0.116	50.0	53.5	107	76 - 122	56.1	112	5	11
156-59-2	cis-1,2-Dichloroethene	0.00	0.103	50.0	56.0	112	81 - 114	58.6	**117***	5	10
156-60-5	trans-1,2-Dichloroethene	0.00	0.077	50.0	57.5	115	82 - 126	59.1	118	3	10
75-09-2	Methylene chloride	0.00	0.149	50.0	53.7	107	69 - 125	56.1	112	4	11
108-10-1	4-Methyl-2-pentanone	0.00	0.120	50.0	48.5	97	62 - 125	51.1	102	5	13
127-18-4	Tetrachloroethene	0.00	0.193	50.0	56.2	112	80 - 131	56.6	113	1	12
630-20-6	1,1,1,2-Tetrachloroethane	0.00	0.120	50.0	52.8	106	81 - 119	55.3	111	5	10
79-34-5	1,1,2,2-Tetrachloroethane	0.00	0.109	50.0	48.3	97	71 - 120	53.0	106	9	11
71-55-6	1,1,1-Trichloroethane	0.00	0.123	50.0	56.9	114	79 - 133	58.7	117	3	11
79-00-5	1,1,2-Trichloroethane	0.00	0.159	50.0	54.0	108	80 - 114	56.4	113	4	11
75-01-4	Vinyl chloride	0.00	0.127	50.0	56.9	114	57 - 153	57.1	114	0	22
540-59-0	1,2-Dichloroethene(Total)	0.00	0.180	100	114	114	74 - 128	118	118	3	30
75-35-4	1,1-Dichloroethene	0.00	0.208	50.0	59.0	118	75 - 133	61.3	123	4	13
71-43-2	Benzene	0.00	0.111	50.0	57.2	114	83 - 124	57.8	116	1	11
79-01-6	Trichloroethene	0.00	0.161	50.0	56.6	113	85 - 124	57.4	115	1	10
108-88-3	Toluene	0.00	0.122	50.0	51.5	103	86 - 116	53.5	107	4	10
108-90-7	Chlorobenzene	0.00	0.083	50.0	50.3	101	87 - 115	53.2	106	6	9
Surrogate											
460-00-4	4-Bromofluorobenzene			50	51.9	104	84 - 120	51.2	102		
1868-53-7	Dibromofluoromethane			50	50.6	101	87 - 116	49.3	99		
2037-26-5	Toluene d8			50	49	98	86 - 112	48.9	98		
17060-07-0	1,2-Dichloroethane-d4			50	50.4	101	76 - 127	50.5	101		

Inorganics Quality Control Summary

Analytical Batch	519696	**Client ID**	MB519415		LCS519415		
Prep Batch	519415	**GCAL ID**	1253336		1253337		
Prep Method	EPA 7470A	**Sample Type**	Method Blank		LCS		
		Prep Date	11/06/2013 13:50		11/06/2013 13:50		
		Analytical Date	11/11/2013 16:13		11/11/2013 16:15		
		Matrix	Water		Water		
EPA 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000070U	0.000070	0.0050	0.0050	100	88 - 111

Analytical Batch	519696	**Client ID**	MW-08-06		MW-08-06-MS			MW-08-06-MSD			
Prep Batch	519415	**GCAL ID**	21311061105		21311061106			21311061107			
Prep Method	EPA 7470A	**Sample Type**	SAMPLE		MS			MSD			
	Dissolved	**Prep Date**	11/06/2013 13:50		11/06/2013 13:50			11/06/2013 13:50			
		Analytical Date	11/11/2013 16:27		11/11/2013 16:29			11/11/2013 16:31			
		Matrix	Water		Water			Water			
SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.0	0.000070	0.0050	0.0031	**62***	88 - 111	0.0032	**64***	2	10

Inorganics Quality Control Summary

Analytical Batch	519696	**Client ID**	MB519414		LCS519414		
Prep Batch	519414	**GCAL ID**	1253334		1253335		
Prep Method	EPA 7470A	**Sample Type**	Method Blank		LCS		
		Prep Date	11/06/2013 13:50		11/06/2013 13:50		
		Analytical Date	11/11/2013 13:37		11/11/2013 13:38		
		Matrix	Water		Water		
EPA 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000070U	0.000070	0.0050	0.0052	103	88 - 111

Analytical Batch	519696	**Client ID**	MW-08-06		MW-08-06-MS			MW-08-06-MSD				
Prep Batch	519414	**GCAL ID**	21311061105		21311061106			21311061107				
Prep Method	EPA 7470A	**Sample Type**	SAMPLE		MS			MSD				
		Prep Date	11/06/2013 13:50		11/06/2013 13:50			11/06/2013 13:50				
		Analytical Date	11/11/2013 13:40		11/11/2013 13:42			11/11/2013 13:44				
		Matrix	Water		Water			Water				
EPA 7470A		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**				
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**	
7439-97-6	Mercury	0.0	0.000070	0.0050	0.0033	**65***	80 - 120	0.0034	**68***	5	10	

Inorganics Quality Control Summary

Analytical Batch	519915	**Client ID**	MB519409	LCS519409
Prep Batch	519409	**GCAL ID**	1253315	1253316
Prep Method	EPA 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	11/06/2013 12:30	11/06/2013 12:30
		Analytical Date	11/13/2013 19:20	11/13/2013 19:27
		Matrix	Water	Water

EPA 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.050U	0.050	5.00	4.87	97	80 - 120
7440-36-0	Antimony	0.015U	0.015	0.50	0.45	90	80 - 120
7440-38-2	Arsenic	0.0050U	0.0050	0.50	0.48	95	80 - 120
7440-39-3	Barium	0.0025U	0.0025	0.50	0.47	94	80 - 120
7440-41-7	Beryllium	0.0010U	0.0010	0.50	0.46	93	80 - 120
7440-43-9	Cadmium	0.0013U	0.0013	0.50	0.47	95	80 - 120
7440-70-2	Calcium	0.20U	0.20	5.00	4.65	93	80 - 120
7440-47-3	Chromium	0.0025U	0.0025	0.50	0.47	94	80 - 120
7440-48-4	Cobalt	0.0025U	0.0025	0.50	0.46	93	80 - 120
7440-50-8	Copper	0.0050U	0.0050	0.50	0.45	90	80 - 120
7439-89-6	Iron	0.050U	0.050	5.00	4.74	95	80 - 120
7439-92-1	Lead	0.0038U	0.0038	0.50	0.48	96	80 - 120
7439-95-4	Magnesium	0.050U	0.050	5.00	4.80	96	80 - 120
7439-96-5	Manganese	0.0038U	0.0038	0.50	0.47	94	80 - 120
7440-02-0	Nickel	0.010U	0.010	0.50	0.49	98	80 - 120
7440-09-7	Potassium	0.13U	0.13	10.0	9.72	97	80 - 120
7782-49-2	Selenium	0.010U	0.010	0.50	0.48	95	80 - 120
7440-22-4	Silver	0.0025U	0.0025	0.50	0.48	95	80 - 120
7440-23-5	Sodium	1.09	0.25	20.0	20.9	104	80 - 120
7440-28-0	Thallium	0.0050U	0.0050	0.50	0.48	95	80 - 120
7440-62-2	Vanadium	0.0050U	0.0050	0.50	0.47	93	80 - 120
7440-66-6	Zinc	0.0050U	0.0050	0.50	0.48	96	80 - 120

Inorganics Quality Control Summary

Analytical Batch	519915	**Client ID**	MW-08-06	MW-08-06-MS	MW-08-06-MSD
Prep Batch	519409	**GCAL ID**	21311061105	21311061106	21311061107
Prep Method	EPA 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	11/06/2013 12:30	11/06/2013 12:30	11/06/2013 12:30
		Analytical Date	11/13/2013 19:34	11/13/2013 19:41	11/13/2013 19:49
		Matrix	Water	Water	Water

SW-846 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.50	5.00	4.82	96	80 - 120	4.76	95	1	20
7440-36-0	Antimony	0.095	0.15	0.50	0.58	98	80 - 120	0.58	97	1	20
7440-38-2	Arsenic	0.072	0.050	0.50	0.47	80	80 - 120	0.58	101	**21***	20
7440-39-3	Barium	0.0094	0.025	0.50	0.19	**35***	80 - 120	0.14	**26***	**28***	20
7440-41-7	Beryllium	0.0	0.010	0.50	0.49	98	80 - 120	0.50	100	2	20
7440-43-9	Cadmium	0.0	0.013	0.50	0.50	99	80 - 120	0.50	99	0	20
7440-70-2	Calcium	494	2.00	5.00	503	**168***	80 - 120	500	108	1	20
7440-47-3	Chromium	0.0	0.025	0.50	0.52	104	80 - 120	0.52	105	1	20
7440-48-4	Cobalt	0.0	0.025	0.50	0.49	99	80 - 120	0.49	99	0	20
7440-50-8	Copper	0.26	0.050	0.50	0.73	94	80 - 120	0.74	95	1	20
7439-89-6	Iron	0.12	0.50	5.00	5.00	98	80 - 120	5.17	101	3	20
7439-92-1	Lead	0.0	0.038	0.50	0.40	**79***	80 - 120	0.41	81	3	20
7439-95-4	Magnesium	838	0.50	5.00	845	**136***	80 - 120	849	**225***	1	20
7439-96-5	Manganese	0.0	0.038	0.50	0.52	103	80 - 120	0.52	105	2	20
7440-02-0	Nickel	0.017	0.10	0.50	0.52	101	80 - 120	0.53	102	2	20
7440-09-7	Potassium	23.5	1.25	10.0	34.5	109	80 - 120	34.9	114	1	20
7782-49-2	Selenium	0.025	0.10	0.50	0.51	97	80 - 120	0.52	99	1	20
7440-22-4	Silver	0.0	0.025	0.50	0.39	**78***	80 - 120	0.39	**79***	1	20
7440-23-5	Sodium	4560	2.50	20.0	4640	**426***	80 - 120	4740	**931***	2	20
7440-28-0	Thallium	0.0058	0.050	0.50	0.53	106	80 - 120	0.48	95	11	20
7440-62-2	Vanadium	0.55	0.050	0.50	1.06	103	80 - 120	1.08	107	2	20
7440-66-6	Zinc	0.16	0.050	0.50	0.47	**62***	80 - 120	0.48	**64***	3	20

General Chemistry Quality Control Summary

Analytical Batch 519497	**Client ID**	MB519497			LCS519497		
Prep Batch N/A	**GCAL ID**	1253930			1253931		
	Sample Type	Method Blank			LCS		
	Analytical Date	11/07/2013 14:50			11/07/2013 14:50		
	Matrix	Water			Water		
SM 2540 C-2011		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	994	99	90 - 110

Analytical Batch 519497	**Client ID**	UNOX Effluent		1252179DUP		
Prep Batch N/A	**GCAL ID**	21311042606		1253932		
	Sample Type	SAMPLE		DUP		
	Analytical Date	11/07/2013 14:50		11/07/2013 14:50		
	Matrix	Water		Water		
SM 2540 C-2011		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1970	4.39	1960	0	5

Analytical Batch 519497	**Client ID**	A-10		1252631DUP		
Prep Batch N/A	**GCAL ID**	21311053104		1253933		
	Sample Type	SAMPLE		DUP		
	Analytical Date	11/07/2013 14:50		11/07/2013 14:50		
	Matrix	Water		Water		
SM 2540 C-2011		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1610	4.39	1600	1	5

Analytical Batch 519691	**Client ID**	MB519691			LCS519691		
Prep Batch N/A	**GCAL ID**	1255152			1255153		
	Sample Type	Method Blank			LCS		
	Analytical Date	11/09/2013 13:51			11/09/2013 13:51		
	Matrix	Water			Water		
SM 2540 C-2011		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	991	99	90 - 110

General Chemistry Quality Control Summary

Analytical Batch 519691	**Client ID**	MW-08-06		1253283DUP		
Prep Batch N/A	**GCAL ID**	21311061105		1255154		
	Sample Type	SAMPLE		DUP		
	Analytical Date	11/09/2013 13:51		11/09/2013 13:51		
	Matrix	Water		Water		
SM 2540 C-2011		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	17600	43.9	17600	0	5

Analytical Batch 519691	**Client ID**	MRAA-07M		1254933DUP		
Prep Batch N/A	**GCAL ID**	21311085305		1255155		
	Sample Type	SAMPLE		DUP		
	Analytical Date	11/09/2013 13:51		11/09/2013 13:51		
	Matrix	Water		Water		
SM 2540 C-2011		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1660	4.39	1650	1	5

Analytical Batch 519786	**Client ID**	MB519786			LCS519786		
Prep Batch N/A	**GCAL ID**	1255572			1255573		
	Sample Type	Method Blank			LCS		
	Analytical Date	11/11/2013 17:18			11/11/2013 17:18		
	Matrix	Water			Water		
SM 2540 C-2011		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	958	96	90 - 110

Analytical Batch 519786	**Client ID**	SD08-MW13		1253280DUP		
Prep Batch N/A	**GCAL ID**	21311061102		1255574		
	Sample Type	SAMPLE		DUP		
	Analytical Date	11/11/2013 17:18		11/11/2013 17:18		
	Matrix	Water		Water		
SM 2540 C-2011		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	33500	43.9	33600	0	5

General Chemistry Quality Control Summary

Analytical Batch 519406	**Client ID**	MB519406			LCS519406		
Prep Batch N/A	**GCAL ID**	1253290			1253291		
	Sample Type	Method Blank			LCS		
	Analytical Date	11/06/2013 16:40			11/06/2013 16:22		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.050U	0.050	2.50	2.38	95	80 - 120

Analytical Batch 519406	**Client ID**	MW-08-06			MW-08-06-MS			MW-08-06-MSD				
Prep Batch N/A	**GCAL ID**	21311061105			21311061106			21311061107				
	Sample Type	SAMPLE			MS			MSD				
	Analytical Date	11/06/2013 18:08			11/06/2013 18:25			11/06/2013 18:43				
	Matrix	Water			Water			Water				
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**				**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**		**Limit**
14797-55-8	Nitrate	16.7	2.50	125	129	90	80 - 120	128	89	1		15

NATIONVIEW

NV Project No: 10-0004.01.010

COC Number(1): 11052013-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q8)

Client Name: USACE Omaha District

Collected by: Tony Lucero / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)	Nitrate (300/9056)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)									Quality Assurance Samples (6)			
S10-MW6	S10-MW6	04-11-2013	1230	-	N	1	WG	7	X	X	X	X	X							
SD08-MW13	SD08-MW13	04-11-2013	1350	-	N	1	WG	7	X	X	X	X	X							
SD08-MW13A	SD08-MW13A	04-11-2013	1350	-	FD	1	WG	7	X	X	X	X	X							
SD08-MW12	SD08-MW12	04-11-2013	1505		N	1	WG	7	X	X	X	X	X							
MW-08-06	MW-08-06	05-11-2013	0800		N	1	WG	7	X	X	X	X	X							
MW-08-06-MS	MW-08-06-MS	05-11-2013	0800		MS	1	WG	7	X	X	X	X	X							
MW-08-06-MSD	MW-08-06-MSD	05-11-2013	0800	-	MSD	1	WG	7	X	X	X	X	X							
MW-08-04	MW-08-04	05-11-2013	0950	-	N	1	WG	7	X	X	X	X	X							
MW-08-05	MW-08-05	05-11-2013	1050	-	N	1	WG	7	X	X	X	X	X							
S10-MW01	S10-MW01	05-11-2013	1155	-	N	1	WG	7	X	X	X	X	X							
Trip Blank	FIELD QC			-	TB		AQ	1	X											

COMMENTS: **Dissolved TAL Metals filtered in the field**

Client ID: 4771 - NationView LLC
SDG: 213110611
Due Date: 11/15/13

1 2 3 4 5 6 7 8 9 10 11

5.6E22

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero	11-5-2013	1600	1.		
2. Fedex	110613	1030	2. Bartley Jr	110613	1030
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	Fed Ex	Airbill Number:	797078969989
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

213110611

SAMPLE DELIVERY GROUP 213110611	
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile Number 204817	**Received By** Law, Brittany P.
Line Item(s) 3 - SD-08	**Receive Date(s)** 11/06/13

CHECKLIST	YES	NO	NA
Were all samples received using proper thermal preservation?	✓		
When used, were all custody seals intact?	✓		
Were all samples received in proper containers?	✓		
Were all samples received using proper chemical preservation?	✓		
Was preservative added to any container at the lab?		✓	
Were all containers received in good condition?	✓		
Were all VOA vials received with no head space?	✓		
Do all sample labels match the Chain of Custody?	✓		
Did the Chain of Custody list the sampling technician?	✓		
Was the COC maintained i.e. all signatures, dates and time of receipt included?	✓		

COOLERS

Airbill	Thermometer ID: E22	Temp(°C)
7970 7896 9989		5.6

DISCREPANCIES

None

LAB PRESERVATIONS

None

NOTES

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER L13-190

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 11/20/2013

GCAL Report 213110709

Deliver To	Nationview, LLC 7027 Old Madison Pike Suite 108 Huntsville, AL 35806 256-713-9494
Attn	Lance Williams

Project Holloman AFB SD-08

CASE NARRATIVE

Client: NationView LLC **Report:** 213110709

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

In the SW-846 6010C Dissolved analysis for prep batch 519524, the MS/MSD recoveries and RPDs are not applicable because the spike was diluted out of the samples.

In the EPA 6010C Dissolved analysis, a chemical or physical interference necessitated a dilution for samples 21311070901 (SWMU183-MW03), 21311070903 (SD08-MW11) and 21311070905 (MW-08-08). This is reflected in the elevated reporting limits.

CONVENTIONALS

In the EPA 300.0 analysis, all samples had to be diluted in order to bracket the concentration within the calibration range of the instrument or to eliminate a chemical or physical interference. This is reflected in the elevated reporting limits.

There was insufficient time to process the sample at receiving and to perform the Nitrate analysis for sample 21311070901 (SWMU183-MW03) within the 48-hour holding time. The client was notified.

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.

_____

Authorized Signature
GCAL REPORT 213110709

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070901	SWMU183-MW03	Water	11/05/2013 14:30	11/07/2013 10:30
21311070902	S10-MW02	Water	11/06/2013 08:35	11/07/2013 10:30
21311070903	SD08-MW11	Water	11/06/2013 09:45	11/07/2013 10:30
21311070904	SD08-MW10	Water	11/06/2013 10:50	11/07/2013 10:30
21311070905	MW-08-08	Water	11/06/2013 11:50	11/07/2013 10:30
21311070906	TRIP BLANK	Water	11/05/2013 00:00	11/07/2013 10:30

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070901	**SWMU183-MW03**	Water	11/05/2013 14:30	11/07/2013 10:30

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.23J	0.60	0.15	mg/L
7440-70-2	Calcium	499	8.00	2.00	mg/L
7439-95-4	Magnesium	237	2.00	0.50	mg/L
7439-96-5	Manganese	0.92	0.15	0.038	mg/L
7440-09-7	Potassium	6.68	5.00	1.25	mg/L
7440-22-4	Silver	0.047J	0.10	0.025	mg/L
7440-23-5	Sodium	962	10.0	2.50	mg/L
7440-62-2	Vanadium	0.094J	0.20	0.050	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	23.0	4.00	1.00	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3740	10.0	4.39	mg/L

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	1.28J	5.00	0.111	ug/L
135-98-8	sec-Butylbenzene	1.75J	5.00	0.107	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070902	**S10-MW02**	Water	11/06/2013 08:35	11/07/2013 10:30

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.013J	0.020	0.0050	mg/L
7440-39-3	Barium	0.011	0.010	0.0025	mg/L
7440-70-2	Calcium	533	0.80	0.20	mg/L
7440-47-3	Chromium	0.027	0.010	0.0025	mg/L
7440-50-8	Copper	0.021	0.020	0.0050	mg/L
7439-95-4	Magnesium	194	0.20	0.050	mg/L
7440-09-7	Potassium	22.6	0.50	0.13	mg/L
7440-23-5	Sodium	65.2	1.00	0.25	mg/L
7440-28-0	Thallium	0.0083J	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.075	0.020	0.0050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070902	**S10-MW02**	Water	11/06/2013 08:35	11/07/2013 10:30

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3260	10.0	4.39	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	16.8	1.00	0.250	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070903	**SD08-MW11**	Water	11/06/2013 09:45	11/07/2013 10:30

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.026J	0.10	0.025	mg/L
7440-70-2	Calcium	487	8.00	2.00	mg/L
7439-92-1	Lead	0.040J	0.15	0.038	mg/L
7439-95-4	Magnesium	875	2.00	0.50	mg/L
7439-96-5	Manganese	2.30	0.15	0.038	mg/L
7440-09-7	Potassium	23.4	5.00	1.25	mg/L
7440-22-4	Silver	0.040J	0.10	0.025	mg/L
7440-23-5	Sodium	4670	10.0	2.50	mg/L
7440-62-2	Vanadium	0.13J	0.20	0.050	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	19400	100	43.9	mg/L

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	77.3	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	4.73J	5.00	0.150	ug/L
71-43-2	Benzene	1.38J	5.00	0.111	ug/L
98-82-8	Isopropylbenzene (Cumene)	1.38J	5.00	0.130	ug/L
135-98-8	sec-Butylbenzene	1.00J	5.00	0.107	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070904	**SD08-MW10**	Water	11/06/2013 10:50	11/07/2013 10:30

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.035	0.020	0.0050	mg/L
7440-39-3	Barium	0.023	0.010	0.0025	mg/L
7440-70-2	Calcium	505	0.80	0.20	mg/L
7440-47-3	Chromium	0.024	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0057J	0.010	0.0025	mg/L
7440-50-8	Copper	0.022	0.020	0.0050	mg/L
7439-89-6	Iron	1.27	0.20	0.050	mg/L
7439-95-4	Magnesium	259	0.20	0.050	mg/L
7439-96-5	Manganese	2.57	0.015	0.0038	mg/L
7440-09-7	Potassium	5.77	0.50	0.13	mg/L
7440-23-5	Sodium	226	1.00	0.25	mg/L
7440-28-0	Thallium	0.011J	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.018J	0.020	0.0050	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2210	10.0	4.39	mg/L

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	62.9	5.00	0.111	ug/L
100-41-4	Ethylbenzene	1.94J	5.00	0.109	ug/L
98-82-8	Isopropylbenzene (Cumene)	14.3	5.00	0.130	ug/L
103-65-1	n-Propylbenzene	30.6	5.00	0.727	ug/L
135-98-8	sec-Butylbenzene	2.83J	5.00	0.107	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070905	**MW-08-08**	Water	11/06/2013 11:50	11/07/2013 10:30

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	708	8.00	2.00	mg/L
7439-95-4	Magnesium	1210	2.00	0.50	mg/L
7439-96-5	Manganese	0.89	0.15	0.038	mg/L
7440-09-7	Potassium	49.9	5.00	1.25	mg/L
7440-22-4	Silver	0.035J	0.10	0.025	mg/L
7440-23-5	Sodium	5200	10.0	2.50	mg/L
7440-62-2	Vanadium	0.15J	0.20	0.050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070905	**MW-08-08**	Water	11/06/2013 11:50	11/07/2013 10:30

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**22600**	**100**	**43.9**	**mg/L**

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**14.1**	**10.0**	**2.50**	**mg/L**

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**1.23J**	**5.00**	**0.111**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070906	**TRIP BLANK**	Water	11/05/2013 00:00	11/07/2013 10:30

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
75-09-2	**Methylene chloride**	**1.52J**	**5.00**	**0.149**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070901	**SWMU183-MW03**	Water	11/05/2013 14:30	11/07/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/13/2013 15:53	LBH	519940

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	**Benzene**	**1.28J**	**5.00**	**0.111**	**ug/L**
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070901	**SWMU183-MW03**	Water	11/05/2013 14:30	11/07/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/13/2013 15:53	LBH	519940

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	**sec-Butylbenzene**	**1.75J**	**5.00**	**0.107**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	52.2	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.2	ug/L	102	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:00	519523	EPA 7470A Dissolved	1	11/11/2013 16:01	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:00	519523	EPA 7470A	1	11/11/2013 15:52	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070901	**SWMU183-MW03**	Water	11/05/2013 14:30	11/07/2013 10:30

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:30	519524	EPA 3005 Dissolved	10	11/15/2013 15:44	CMB	520112

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	**Antimony**	**0.23J**	**0.60**	**0.15**	**mg/L**
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**499**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	Copper	0.050U	0.20	0.050	mg/L
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**237**	**2.00**	**0.50**	**mg/L**
7439-96-5	**Manganese**	**0.92**	**0.15**	**0.038**	**mg/L**
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**6.68**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	**Silver**	**0.047J**	**0.10**	**0.025**	**mg/L**
7440-23-5	**Sodium**	**962**	**10.0**	**2.50**	**mg/L**
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.094J**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/09/2013 13:51	BNW	519691

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3740**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	11/07/2013 19:34	JEM	519532

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**23.0**	**4.00**	**1.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070902	**S10-MW02**	Water	11/06/2013 08:35	11/07/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/13/2013 16:14	LBH	519940

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070902	**S10-MW02**	Water	11/06/2013 08:35	11/07/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/13/2013 16:14	LBH	519940

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	52.8	ug/L	106	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.2	ug/L	98	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:00	519523	EPA 7470A Dissolved	1	11/11/2013 16:06	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:00	519523	EPA 7470A	1	11/11/2013 15:54	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070902	**S10-MW02**	Water	11/06/2013 08:35	11/07/2013 10:30

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:30	519524	EPA 3005 Dissolved	1	11/18/2013 18:23	CMB	520243

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.013J**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.011**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**533**	**0.80**	**0.20**	**mg/L**
7440-47-3	**Chromium**	**0.027**	**0.010**	**0.0025**	**mg/L**
7440-48-4	Cobalt	0.0025U	0.010	0.0025	mg/L
7440-50-8	**Copper**	**0.021**	**0.020**	**0.0050**	**mg/L**
7439-89-6	Iron	0.050U	0.20	0.050	mg/L
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**194**	**0.20**	**0.050**	**mg/L**
7439-96-5	Manganese	0.0038U	0.015	0.0038	mg/L
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**22.6**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-23-5	**Sodium**	**65.2**	**1.00**	**0.25**	**mg/L**
7440-28-0	**Thallium**	**0.0083J**	**0.020**	**0.0050**	**mg/L**
7440-62-2	**Vanadium**	**0.075**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/09/2013 13:51	BNW	519691

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3260**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	11/07/2013 20:27	JEM	519532

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**16.8**	**1.00**	**0.250**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070903	**SD08-MW11**	Water	11/06/2013 09:45	11/07/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/13/2013 16:36	LBH	519940

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**77.3**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**4.73J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	**Benzene**	**1.38J**	**5.00**	**0.111**	**ug/L**
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	**Isopropylbenzene (Cumene)**	**1.38J**	**5.00**	**0.130**	**ug/L**
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070903	**SD08-MW11**	Water	11/06/2013 09:45	11/07/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/13/2013 16:36	LBH	519940

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	**sec-Butylbenzene**	**1.00J**	**5.00**	**0.107**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.5	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	53.6	ug/L	107	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.8	ug/L	98	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:00	519523	EPA 7470A Dissolved	1	11/11/2013 16:08	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:00	519523	EPA 7470A	1	11/11/2013 15:55	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070903	**SD08-MW11**	Water	11/06/2013 09:45	11/07/2013 10:30

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:30	519524	EPA 3005 Dissolved	10	11/15/2013 16:35	CMB	520112

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	**Barium**	**0.026J**	**0.10**	**0.025**	**mg/L**
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**487**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	Copper	0.050U	0.20	0.050	mg/L
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	**Lead**	**0.040J**	**0.15**	**0.038**	**mg/L**
7439-95-4	**Magnesium**	**875**	**2.00**	**0.50**	**mg/L**
7439-96-5	**Manganese**	**2.30**	**0.15**	**0.038**	**mg/L**
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**23.4**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	**Silver**	**0.040J**	**0.10**	**0.025**	**mg/L**
7440-23-5	**Sodium**	**4670**	**10.0**	**2.50**	**mg/L**
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.13J**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/09/2013 13:51	BNW	519691

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**19400**	**100**	**43.9**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	11/07/2013 20:44	JEM	519532

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	2.50U	10.0	2.50	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070904	**SD08-MW10**	Water	11/06/2013 10:50	11/07/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/13/2013 16:57	LBH	519940

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	**Benzene**	**62.9**	**5.00**	**0.111**	**ug/L**
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	**Ethylbenzene**	**1.94J**	**5.00**	**0.109**	**ug/L**
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	**Isopropylbenzene (Cumene)**	**14.3**	**5.00**	**0.130**	**ug/L**
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070904	**SD08-MW10**	Water	11/06/2013 10:50	11/07/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/13/2013 16:57	LBH	519940

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	**n-Propylbenzene**	**30.6**	**5.00**	**0.727**	**ug/L**
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	**sec-Butylbenzene**	**2.83J**	**5.00**	**0.107**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.8	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	48.2	ug/L	96	87 - 116
2037-26-5	Toluene d8	50	53.6	ug/L	107	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.1	ug/L	96	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:00	519523	EPA 7470A Dissolved	1	11/11/2013 16:10	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:00	519523	EPA 7470A	1	11/11/2013 15:43	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070904	**SD08-MW10**	Water	11/06/2013 10:50	11/07/2013 10:30

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:30	519524	EPA 3005 Dissolved	1	11/18/2013 18:31	CMB	520243

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.035**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.023**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**505**	**0.80**	**0.20**	**mg/L**
7440-47-3	**Chromium**	**0.024**	**0.010**	**0.0025**	**mg/L**
7440-48-4	**Cobalt**	**0.0057J**	**0.010**	**0.0025**	**mg/L**
7440-50-8	**Copper**	**0.022**	**0.020**	**0.0050**	**mg/L**
7439-89-6	**Iron**	**1.27**	**0.20**	**0.050**	**mg/L**
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**259**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**2.57**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**5.77**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-23-5	**Sodium**	**226**	**1.00**	**0.25**	**mg/L**
7440-28-0	**Thallium**	**0.011J**	**0.020**	**0.0050**	**mg/L**
7440-62-2	**Vanadium**	**0.018J**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/09/2013 13:51	BNW	519691

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2210**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	11/07/2013 21:02	JEM	519532

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.250U	1.00	0.250	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070905	**MW-08-08**	Water	11/06/2013 11:50	11/07/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/13/2013 17:18	LBH	519940

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	**Benzene**	**1.23J**	**5.00**	**0.111**	**ug/L**
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070905	**MW-08-08**	Water	11/06/2013 11:50	11/07/2013 10:30

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/13/2013 17:18	LBH	519940

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.8	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	53	ug/L	106	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:00	519523	EPA 7470A Dissolved	1	11/11/2013 16:11	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:00	519523	EPA 7470A	1	11/11/2013 15:57	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070905	**MW-08-08**	Water	11/06/2013 11:50	11/07/2013 10:30

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/07/2013 13:30	519524	EPA 3005 Dissolved	10	11/15/2013 16:48	CMB	520112

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**708**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	Copper	0.050U	0.20	0.050	mg/L
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**1210**	**2.00**	**0.50**	**mg/L**
7439-96-5	**Manganese**	**0.89**	**0.15**	**0.038**	**mg/L**
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**49.9**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	**Silver**	**0.035J**	**0.10**	**0.025**	**mg/L**
7440-23-5	**Sodium**	**5200**	**10.0**	**2.50**	**mg/L**
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.15J**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/09/2013 13:51	BNW	519691

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**22600**	**100**	**43.9**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	11/07/2013 21:37	JEM	519532

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**14.1**	**10.0**	**2.50**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070906	**TRIP BLANK**	Water	11/05/2013 00:00	11/07/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/13/2013 17:39	CLH	519940

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	**Methylene chloride**	**1.52J**	**5.00**	**0.149**	**ug/L**
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311070906	**TRIP BLANK**	Water	11/05/2013 00:00	11/07/2013 10:30

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/13/2013 17:39	CLH	519940

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.1	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	52.7	ug/L	105	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.2	ug/L	100	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 519940	**Client ID**	MB519940	LCS519940
Prep Batch N/A	**GCAL ID**	1256219	1256220
	Sample Type	Method Blank	LCS
	Analytical Date	11/13/2013 15:32	11/13/2013 13:45
	Matrix	Water	Water

EPA 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
67-64-1	Acetone	0.193U	0.193	50.0	44.8	90	59 - 134
74-97-5	Bromochloromethane	0.127U	0.127	50.0	54.9	110	78 - 112
75-27-4	Bromodichloromethane	0.083U	0.083	50.0	54.3	109	76 - 116
75-25-2	Bromoform	0.215U	0.215	50.0	56.4	113	68 - 128
74-83-9	Bromomethane	0.427U	0.427	50.0	53.7	107	55 - 151
75-15-0	Carbon disulfide	0.190U	0.190	50.0	52.6	105	67 - 147
56-23-5	Carbon tetrachloride	0.248U	0.248	50.0	50.7	101	74 - 139
75-00-3	Chloroethane	0.235U	0.235	50.0	44.5	89	54 - 166
136777-61-2	m,p-Xylene	0.123U	0.123	100	100	100	83 - 121
67-66-3	Chloroform	0.155U	0.155	50.0	52.3	105	85 - 123
74-87-3	Chloromethane	0.144U	0.144	50.0	54.7	109	55 - 173
124-48-1	Dibromochloromethane	0.054U	0.054	50.0	56.7	113	74 - 116
74-95-3	Dibromomethane	0.211U	0.211	50.0	54.0	108	81 - 116
75-71-8	Dichlorodifluoromethane	0.145U	0.145	50.0	54.5	109	34 - 158
75-34-3	1,1-Dichloroethane	0.171U	0.171	50.0	54.5	109	82 - 127
107-06-2	1,2-Dichloroethane	0.116U	0.116	50.0	53.3	107	76 - 122
156-59-2	cis-1,2-Dichloroethene	0.103U	0.103	50.0	55.5	111	81 - 114
156-60-5	trans-1,2-Dichloroethene	0.077U	0.077	50.0	56.6	113	82 - 126
75-09-2	Methylene chloride	0.149U	0.149	50.0	48.9	98	69 - 125
78-87-5	1,2-Dichloropropane	0.150U	0.150	50.0	55.6	111	81 - 120
10061-01-5	cis-1,3-Dichloropropene	0.124U	0.124	50.0	49.9	100	83 - 119
10061-02-6	trans-1,3-Dichloropropene	0.128U	0.128	50.0	49.5	99	87 - 123
100-41-4	Ethylbenzene	0.109U	0.109	50.0	56.6	113	87 - 118
591-78-6	2-Hexanone	0.122U	0.122	50.0	49.9	100	58 - 125
98-82-8	Isopropylbenzene (Cumene)	0.130U	0.130	50.0	63.6	127	87 - 131
78-93-3	2-Butanone	0.142U	0.142	50.0	51.9	104	61 - 127
74-88-4	Methyl iodide	0.084U	0.084	50.0	59.7	119	72 - 125
108-10-1	4-Methyl-2-pentanone	0.120U	0.120	50.0	56.1	112	62 - 125
103-65-1	n-Propylbenzene	0.727U	0.727	50.0	56.3	113	86 - 125
100-42-5	Styrene	0.089U	0.089	50.0	52.7	105	78 - 118
127-18-4	Tetrachloroethene	0.193U	0.193	50.0	58.4	117	80 - 131
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	0.120	50.0	55.2	110	81 - 119
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	0.109	50.0	51.2	102	71 - 120

GC/MS Volatiles Quality Control Summary

Analytical Batch 519940	**Client ID**	MB519940	LCS519940
Prep Batch N/A	**GCAL ID**	1256219	1256220
	Sample Type	Method Blank	LCS
	Analytical Date	11/13/2013 15:32	11/13/2013 13:45
	Matrix	Water	Water

EPA 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
120-82-1	1,2,4-Trichlorobenzene	0.105U	0.105	50.0	49.4	99	68 - 123
71-55-6	1,1,1-Trichloroethane	0.123U	0.123	50.0	50.7	101	79 - 133
79-00-5	1,1,2-Trichloroethane	0.159U	0.159	50.0	52.8	106	80 - 114
75-69-4	Trichlorofluoromethane	0.157U	0.157	50.0	48.3	97	66 - 156
96-18-4	1,2,3-Trichloropropane	0.065U	0.065	50.0	53.0	106	77 - 115
95-63-6	1,2,4-Trimethylbenzene	0.084U	0.084	50.0	52.8	106	82 - 120
108-67-8	1,3,5-Trimethylbenzene	0.066U	0.066	50.0	50.9	102	83 - 123
75-01-4	Vinyl chloride	0.127U	0.127	50.0	52.0	104	57 - 153
95-47-6	o-Xylene	0.055U	0.055	50.0	51.1	102	83 - 121
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	0.194	50.0	50.0	100	61 - 118
106-93-4	1,2-Dibromoethane	0.102U	0.102	50.0	57.7	115	80 - 115
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078	50.0	56.1	112	75 - 116
540-59-0	1,2-Dichloroethene(Total)	0.180U	0.180	100	112	112	74 - 128
99-87-6	4-Isopropyltoluene	0.070U	0.070	50.0	52.6	105	83 - 125
1330-20-7	Xylene (total)	0.179U	0.179	150	152	101	74 - 127
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	0.264	50.0	56.1	112	51 - 137
594-20-7	2,2-Dichloropropane	0.170U	0.170	50.0	50.8	102	77 - 138
76-13-1	Trichlorotrifluoroethane	0.158U	0.158	50.0	52.5	105	74 - 139
563-58-6	1,1-Dichloropropene	0.052U	0.052	50.0	50.2	100	87 - 127
142-28-9	1,3-Dichloropropane	0.059U	0.059	50.0	54.9	110	81 - 113
108-86-1	Bromobenzene	0.145U	0.145	50.0	53.1	106	83 - 115
95-49-8	2-Chlorotoluene	0.080U	0.080	50.0	55.1	110	81 - 121
106-43-4	4-Chlorotoluene	0.124U	0.124	50.0	57.1	114	84 - 120
98-06-6	tert-Butylbenzene	0.087U	0.087	50.0	52.3	105	83 - 126
135-98-8	sec-Butylbenzene	0.107U	0.107	50.0	53.5	107	86 - 127
541-73-1	1,3-Dichlorobenzene	0.138U	0.138	50.0	54.8	110	86 - 115
106-46-7	1,4-Dichlorobenzene	0.083U	0.083	50.0	54.5	109	87 - 113
104-51-8	n-Butylbenzene	0.123U	0.123	50.0	52.9	106	84 - 124
95-50-1	1,2-Dichlorobenzene	0.135U	0.135	50.0	55.1	110	85 - 115
87-68-3	Hexachlorobutadiene	0.265U	0.265	50.0	58.5	117	71 - 133
91-20-3	Naphthalene	0.176U	0.176	50.0	46.3	93	59 - 125
75-35-4	1,1-Dichloroethene	0.208U	0.208	50.0	46.4	93	75 - 133
71-43-2	Benzene	0.111U	0.111	50.0	51.1	102	83 - 124

GC/MS Volatiles Quality Control Summary

Analytical Batch 519940	**Client ID**	MB519940		LCS519940
Prep Batch N/A	**GCAL ID**	1256219		1256220
	Sample Type	Method Blank		LCS
	Analytical Date	11/13/2013 15:32		11/13/2013 13:45
	Matrix	Water		Water

EPA 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
79-01-6	Trichloroethene	0.161U	0.161	50.0	49.8	100	85 - 124
108-88-3	Toluene	0.122U	0.122	50.0	52.6	105	86 - 116
108-90-7	Chlorobenzene	0.083U	0.083	50.0	53.0	106	87 - 115
Surrogate							
460-00-4	4-Bromofluorobenzene	50	100	50	52.2	104	84 - 120
1868-53-7	Dibromofluoromethane	49.4	99	50	50	100	87 - 116
2037-26-5	Toluene d8	53.6	107	50	49.1	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	48.7	97	50	49	98	76 - 127

Inorganics Quality Control Summary

Analytical Batch 519696	**Client ID**	MB519523			LCS519523		
Prep Batch 519523	**GCAL ID**	1254136			1254137		
Prep Method EPA 7470A	**Sample Type**	Method Blank			LCS		
	Prep Date	11/07/2013 13:00			11/07/2013 13:00		
	Analytical Date	11/11/2013 15:36			11/11/2013 15:38		
	Matrix	Water			Water		
EPA 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6 Mercury		0.000070U	0.000070	0.0050	0.0051	103	88 - 111

Analytical Batch 519696	**Client ID**	SD08-MW10			1254054MS			1254054MSD			
Prep Batch 519523	**GCAL ID**	21311070904			1254138			1254139			
Prep Method EPA 7470A	**Sample Type**	SAMPLE			MS			MSD			
	Prep Date	11/07/2013 13:00			11/07/2013 13:00			11/07/2013 13:00			
	Analytical Date	11/11/2013 15:43			11/11/2013 15:45			11/11/2013 15:47			
	Matrix	Water			Water			Water			
EPA 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6 Mercury		0.0	0.000070	0.0050	0.0042	85	80 - 120	0.0043	87	3	20

Inorganics Quality Control Summary

Analytical Batch 519696	**Client ID**	MB519523			LCS519523		
Prep Batch 519523	**GCAL ID**	1254136			1254137		
Prep Method EPA 7470A	**Sample Type**	Method Blank			LCS		
	Prep Date	11/07/2013 13:00			11/07/2013 13:00		
	Analytical Date	11/11/2013 15:36			11/11/2013 15:38		
	Matrix	Water			Water		
EPA 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6 Mercury		0.000070U	0.000070	0.0050	0.0051	103	88 - 111

Analytical Batch 519696	**Client ID**	SD08-MW10			1254054MS			1254054MSD			
Prep Batch 519523	**GCAL ID**	21311070904			1254138			1254139			
Prep Method EPA 7470A	**Sample Type**	SAMPLE			MS			MSD			
	Prep Date	11/07/2013 13:00			11/07/2013 13:00			11/07/2013 13:00			
	Analytical Date	11/11/2013 15:43			11/11/2013 15:45			11/11/2013 15:47			
	Matrix	Water			Water			Water			
EPA 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6 Mercury		0.0	0.000070	0.0050	0.0042	85	80 - 120	0.0043	87	3	10

Inorganics Quality Control Summary

Analytical Batch	520112	**Client ID**	MB519524	LCS519524
Prep Batch	519524	**GCAL ID**	1254140	1254141
Prep Method	EPA 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	11/07/2013 13:30	11/07/2013 13:30
		Analytical Date	11/15/2013 15:17	11/15/2013 15:23
		Matrix	Water	Water

EPA 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.050U	0.050	5.00	4.78	96	80 - 120
7440-36-0	Antimony	0.015U	0.015	0.50	0.41	82	80 - 120
7440-38-2	Arsenic	0.0050U	0.0050	0.50	0.46	93	80 - 120
7440-39-3	Barium	0.0025U	0.0025	0.50	0.47	94	80 - 120
7440-41-7	Beryllium	0.0010U	0.0010	0.50	0.46	92	80 - 120
7440-43-9	Cadmium	0.0013U	0.0013	0.50	0.47	95	80 - 120
7440-70-2	Calcium	0.20U	0.20	5.00	4.72	94	80 - 120
7440-47-3	Chromium	0.0025U	0.0025	0.50	0.47	94	80 - 120
7440-48-4	Cobalt	0.0025U	0.0025	0.50	0.47	94	80 - 120
7440-50-8	Copper	0.0050U	0.0050	0.50	0.45	91	80 - 120
7439-89-6	Iron	0.050U	0.050	5.00	4.67	93	80 - 120
7439-92-1	Lead	0.0038U	0.0038	0.50	0.48	96	80 - 120
7439-95-4	Magnesium	0.050U	0.050	5.00	4.76	95	80 - 120
7439-96-5	Manganese	0.0054J	0.0038	0.50	0.47	95	80 - 120
7440-02-0	Nickel	0.010U	0.010	0.50	0.47	95	80 - 120
7440-09-7	Potassium	0.13U	0.13	10.0	9.39	94	80 - 120
7782-49-2	Selenium	0.010U	0.010	0.50	0.46	91	80 - 120
7440-22-4	Silver	0.0025U	0.0025	0.50	0.48	96	80 - 120
7440-23-5	Sodium	0.25U	0.25	20.0	19.5	97	80 - 120
7440-28-0	Thallium	0.0050U	0.0050	0.50	0.48	96	80 - 120
7440-62-2	Vanadium	0.0050U	0.0050	0.50	0.47	94	80 - 120
7440-66-6	Zinc	0.0050U	0.0050	0.50	0.48	96	80 - 120

Inorganics Quality Control Summary

Analytical Batch	520112	**Client ID**	SWMU183-MW03	1254042MS	1254042MSD
Prep Batch	519524	**GCAL ID**	21311070901	1254142	1254143
Prep Method	EPA 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	11/07/2013 13:30	11/07/2013 13:30	11/07/2013 13:30
		Analytical Date	11/15/2013 15:44	11/15/2013 15:50	11/15/2013 16:10
		Matrix	Water	Water	Water

EPA 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.058	0.50	5.00	4.67	92	80 - 120	5.10	101	9	20
7440-36-0	Antimony	0.23	0.15	0.50	0.53	**60***	80 - 120	0.58	**71***	10	20
7440-38-2	Arsenic	0.0	0.050	0.50	0.47	93	80 - 120	0.55	109	16	20
7440-39-3	Barium	0.0083	0.025	0.50	0.66	**131***	80 - 120	0.26	**50***	**87***	20
7440-41-7	Beryllium	0.0	0.010	0.50	0.47	94	80 - 120	0.54	108	14	20
7440-43-9	Cadmium	0.0	0.013	0.50	0.47	94	80 - 120	0.53	107	13	20
7440-70-2	Calcium	499	2.00	5.00	499	**1***	80 - 120	552	**1060***	10	20
7440-47-3	Chromium	0.0	0.025	0.50	0.43	86	80 - 120	0.51	102	17	20
7440-48-4	Cobalt	0.0073	0.025	0.50	0.48	95	80 - 120	0.55	108	13	20
7440-50-8	Copper	0.012	0.050	0.50	0.47	91	80 - 120	0.54	106	15	20
7439-89-6	Iron	0.0	0.50	5.00	4.80	96	80 - 120	5.39	108	12	20
7439-92-1	Lead	0.026	0.038	0.50	0.56	107	80 - 120	0.41	**77***	**31***	20
7439-95-4	Magnesium	237	0.50	5.00	244	**144***	80 - 120	262	**506***	7	20
7439-96-5	Manganese	0.92	0.038	0.50	1.36	87	80 - 120	1.56	**128***	14	20
7440-02-0	Nickel	0.0	0.10	0.50	0.48	97	80 - 120	0.55	111	14	20
7440-09-7	Potassium	6.68	1.25	10.0	15.8	91	80 - 120	17.3	106	9	20
7782-49-2	Selenium	0.0	0.10	0.50	0.38	**75***	80 - 120	0.43	87	14	20
7440-22-4	Silver	0.047	0.025	0.50	0.73	**136***	80 - 120	0.30	**50***	**84***	20
7440-23-5	Sodium	962	2.50	20.0	972	**50***	80 - 120	1070	**541***	10	20
7440-28-0	Thallium	0.0	0.050	0.50	0.42	84	80 - 120	0.53	106	**23***	20
7440-62-2	Vanadium	0.094	0.050	0.50	0.56	92	80 - 120	0.63	108	13	20
7440-66-6	Zinc	0.0	0.050	0.50	0.44	89	80 - 120	0.51	102	14	20

General Chemistry Quality Control Summary

Analytical Batch 519691	**Client ID**	MB519691			LCS519691		
Prep Batch N/A	**GCAL ID**	1255152			1255153		
	Sample Type	Method Blank			LCS		
	Analytical Date	11/09/2013 13:51			11/09/2013 13:51		
	Matrix	Water			Water		
SM 2540 C-2011		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	991	99	90 - 110

Analytical Batch 519691	**Client ID**	MW-08-06		1253283DUP		
Prep Batch N/A	**GCAL ID**	21311061105		1255154		
	Sample Type	SAMPLE		DUP		
	Analytical Date	11/09/2013 13:51		11/09/2013 13:51		
	Matrix	Water		Water		
SM 2540 C-2011		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	17600	43.9	17600	0	5

Analytical Batch 519691	**Client ID**	MRAA-07M		1254933DUP		
Prep Batch N/A	**GCAL ID**	21311085305		1255155		
	Sample Type	SAMPLE		DUP		
	Analytical Date	11/09/2013 13:51		11/09/2013 13:51		
	Matrix	Water		Water		
SM 2540 C-2011		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1660	4.39	1650	1	5

General Chemistry Quality Control Summary

Analytical Batch 519532	**Client ID**	MB519532			LCS519532		
Prep Batch N/A	**GCAL ID**	1254163			1254164		
	Sample Type	Method Blank			LCS		
	Analytical Date	11/08/2013 09:57			11/07/2013 19:16		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.050U	0.050	2.50	2.39	96	80 - 120

Analytical Batch 519532	**Client ID**	SWMU183-MW03			1254042MS			1254042MSD			
Prep Batch N/A	**GCAL ID**	21311070901			1254165			1254166			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	11/07/2013 19:34			11/07/2013 19:51			11/07/2013 20:09			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	23.0	1.00	50.0	68.6	91	80 - 120	68.4	91	0	15

NATIONVIEW

3,4 E20

Page: 1 of 1

NV Project No: 10-0004

COC Number(1): 11062013-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q8)

Client Name: USACE Omaha District

Collected by: Tony Lucero / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)	Nitrate (300/9056)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)									Quality Assurance Samples (6)			
SWMU183-MW03	SWMU183-MW03	05112013	1430	-	N	1	WG	7	[1]	[1]	[1]	[1]	[1]							
S10-MW02	S10-MW02	06112013	0835	-	N	1	WG	7	[1]	[1]	[1]	[1]	[1]							
SD08-MW11	SD08-MW11	06112013	0945	-	N	1	WG	7	[1]	[1]	[1]	[1]	[1]							
SD08-MW10	SD08-MW10	06112013	1050		N	1	WG	7	[1]	[1]	[1]	[1]	[1]							
MW-08-08	MW-08-08	06112013	1150		N	1	WG	7	[1]	[1]	[1]	[1]	[1]							
Trip Blank	FIELD QC			-	TB		AQ	1	[1]											

COMMENTS: **Dissolved TAL Metals filtered in the field**

Client ID: 4771 - NationView LLC

SDG: 213110709

Due Date: 11/18/13

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero	11062013	1600	1.		
2. FedEx	11/7/13	1030	2. [signature]	11/7/13	1030
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 797092179628

Analytical Lab: GCAL Delivery Location: Baton Rogue, LA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

213110709

SAMPLE DELIVERY GROUP 213110709	
Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile Number 204817	**Received By** Law, Brittany P.
Line Item(s) 3 - SD-08	**Receive Date(s)** 11/07/13

CHECKLIST	YES	NO	NA
Were all samples received using proper thermal preservation?	✓		
When used, were all custody seals intact?	✓		
Were all samples received in proper containers?	✓		
Were all samples received using proper chemical preservation?	✓		
Was preservative added to any container at the lab?		✓	
Were all containers received in good condition?	✓		
Were all VOA vials received with no head space?	✓		
Do all sample labels match the Chain of Custody?	✓		
Did the Chain of Custody list the sampling technician?	✓		
Was the COC maintained i.e. all signatures, dates and time of receipt included?	✓		

COOLERS

Airbill	Thermometer ID: E20	Temp(°C)
7970 9217 9628		3.4

DISCREPANCIES

None

LAB PRESERVATIONS

None

NOTES

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER L13-190

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 11/22/2013

GCAL Report 213110809

Deliver To	Nationview, LLC 7027 Old Madison Pike Suite 108 Huntsville, AL 35806 256-713-9494
Attn	Lance Williams

Project Holloman AFB SD-08

CASE NARRATIVE

Client: NationView LLC **Report:** 213110809

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

In the EPA 6010C Dissolved analysis for prep batch 519605, the MS and/or MSD recovery is outside the control limits for Barium, Lead, and Silver. 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 103% Barium, 94% Lead, and 95% Silver. 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 MS/MSD RPD for Silver is above the upper control limit. Sodium was detected in the method blank. The concentration was insignificant as compared to the concentration detected in the associated samples.

In the EPA 6010C Dissolved analysis, a chemical or physical interference necessitated a dilution for samples 21311080903 (MW-08-03), 21311080904 (MW-08-01) and 21311080905 (MW-08-01A). This is reflected in the elevated reporting limits.

CONVENTIONALS

In the EPA 300.0 analysis, all samples had to be diluted in order to bracket the concentration within the calibration range of the instrument or to eliminate a chemical or physical interference. This is reflected in the elevated reporting limits.

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.

_____

Authorized Signature
GCAL REPORT 213110809

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080901	MW-08-07	Water	11/06/2013 13:35	11/08/2013 09:45
21311080902	MW-08-02	Water	11/06/2013 14:35	11/08/2013 09:45
21311080903	MW-08-03	Water	11/07/2013 08:55	11/08/2013 09:45
21311080904	MW-08-01	Water	11/07/2013 09:55	11/08/2013 09:45
21311080905	MW-08-01A	Water	11/07/2013 09:55	11/08/2013 09:45
21311080906	TRIP BLANK	Water	11/06/2013 00:00	11/08/2013 09:45

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080901	**MW-08-07**	Water	11/06/2013 13:35	11/08/2013 09:45

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.040	0.020	0.0050	mg/L
7440-39-3	Barium	0.012	0.010	0.0025	mg/L
7440-70-2	Calcium	575	0.80	0.20	mg/L
7440-47-3	Chromium	0.028	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0035J	0.010	0.0025	mg/L
7440-50-8	Copper	0.021	0.020	0.0050	mg/L
7439-89-6	Iron	0.067J	0.20	0.050	mg/L
7439-95-4	Magnesium	195	0.20	0.050	mg/L
7439-96-5	Manganese	1.35	0.015	0.0038	mg/L
7440-09-7	Potassium	5.57	0.50	0.13	mg/L
7440-23-5	Sodium	440	1.00	0.25	mg/L
7440-28-0	Thallium	0.014J	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.039	0.020	0.0050	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.49	1.00	0.250	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	3080	10.0	4.39	mg/L

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	30.5	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	0.809J	5.00	0.150	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080902	**MW-08-02**	Water	11/06/2013 14:35	11/08/2013 09:45

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	0.014J	0.020	0.0050	mg/L
7440-39-3	Barium	0.015	0.010	0.0025	mg/L
7440-70-2	Calcium	593	0.80	0.20	mg/L
7440-47-3	Chromium	0.029	0.010	0.0025	mg/L
7440-48-4	Cobalt	0.0042J	0.010	0.0025	mg/L
7440-50-8	Copper	0.021	0.020	0.0050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080902	**MW-08-02**	Water	11/06/2013 14:35	11/08/2013 09:45

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	1.15	0.20	0.050	mg/L
7439-95-4	Magnesium	167	0.20	0.050	mg/L
7439-96-5	Manganese	1.62	0.015	0.0038	mg/L
7440-09-7	Potassium	4.06	0.50	0.13	mg/L
7440-23-5	Sodium	163	1.00	0.25	mg/L
7440-28-0	Thallium	0.012J	0.020	0.0050	mg/L
7440-62-2	Vanadium	0.021	0.020	0.0050	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2990	10.0	4.39	mg/L

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	4.02J	5.00	0.116	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080903	**MW-08-03**	Water	11/07/2013 08:55	11/08/2013 09:45

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	540	8.00	2.00	mg/L
7439-95-4	Magnesium	719	2.00	0.50	mg/L
7440-09-7	Potassium	16.6	5.00	1.25	mg/L
7440-22-4	Silver	0.030J	0.10	0.025	mg/L
7440-23-5	Sodium	2660	10.0	2.50	mg/L
7440-62-2	Vanadium	0.16J	0.20	0.050	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	16400	10.0	4.39	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	11.6	4.00	1.00	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080904	**MW-08-01**	Water	11/07/2013 09:55	11/08/2013 09:45

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	490	8.00	2.00	mg/L
7439-89-6	Iron	8.10	2.00	0.50	mg/L
7439-95-4	Magnesium	597	2.00	0.50	mg/L
7439-96-5	Manganese	2.59	0.15	0.038	mg/L
7440-09-7	Potassium	5.08	5.00	1.25	mg/L
7440-23-5	Sodium	1830	10.0	2.50	mg/L
7440-62-2	Vanadium	0.092J	0.20	0.050	mg/L
7440-66-6	Zinc	0.052J	0.20	0.050	mg/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5710	10.0	4.39	mg/L

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
95-50-1	1,2-Dichlorobenzene	0.257J	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	26.1	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	5.25	5.00	0.150	ug/L
67-64-1	Acetone	5.74	5.00	0.193	ug/L
71-43-2	Benzene	1.25J	5.00	0.111	ug/L
100-41-4	Ethylbenzene	0.785J	5.00	0.109	ug/L
135-98-8	sec-Butylbenzene	0.341J	5.00	0.107	ug/L
98-06-6	tert-Butylbenzene	0.832J	5.00	0.087	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080905	**MW-08-01A**	Water	11/07/2013 09:55	11/08/2013 09:45

EPA 6010C Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	477	8.00	2.00	mg/L
7439-89-6	Iron	7.97	2.00	0.50	mg/L
7439-95-4	Magnesium	593	2.00	0.50	mg/L
7439-96-5	Manganese	2.62	0.15	0.038	mg/L
7440-09-7	Potassium	4.48J	5.00	1.25	mg/L
7440-22-4	Silver	0.043J	0.10	0.025	mg/L
7440-23-5	Sodium	1770	10.0	2.50	mg/L
7440-62-2	Vanadium	0.11J	0.20	0.050	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080905	**MW-08-01A**	Water	11/07/2013 09:55	11/08/2013 09:45

EPA 8260B

CAS#	Parameter	Result	RDL	MDL	Units
95-50-1	1,2-Dichlorobenzene	0.258J	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	42.2	5.00	0.116	ug/L
78-87-5	1,2-Dichloropropane	6.47	5.00	0.150	ug/L
67-64-1	Acetone	4.55J	5.00	0.193	ug/L
71-43-2	Benzene	0.534J	5.00	0.111	ug/L
100-41-4	Ethylbenzene	0.276J	5.00	0.109	ug/L
135-98-8	sec-Butylbenzene	0.370J	5.00	0.107	ug/L
98-06-6	tert-Butylbenzene	0.837J	5.00	0.087	ug/L

SM 2540 C-2011

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5610	10.0	4.39	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080906	**TRIP BLANK**	Water	11/06/2013 00:00	11/08/2013 09:45

SW-846 8260B Water

CAS#	Parameter	Result	RDL	MDL	Units
75-09-2	Methylene chloride	1.40J	5.00	0.149	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080901	**MW-08-07**	Water	11/06/2013 13:35	11/08/2013 09:45

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/15/2013 20:32	JCK	520149

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**30.5**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**0.809J**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080901	**MW-08-07**	Water	11/06/2013 13:35	11/08/2013 09:45

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/15/2013 20:32	JCK	520149

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.7	ug/L	103	84 - 120
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	52.6	ug/L	105	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.7	ug/L	99	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 13:45	519608	EPA 7470A Dissolved	1	11/11/2013 14:51	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 13:45	519608	EPA 7470A	1	11/11/2013 14:39	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080901	**MW-08-07**	Water	11/06/2013 13:35	11/08/2013 09:45

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 16:15	519605	EPA 3005 Dissolved	1	11/18/2013 17:26	CMB	520243

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.040**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.012**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**575**	**0.80**	**0.20**	**mg/L**
7440-47-3	**Chromium**	**0.028**	**0.010**	**0.0025**	**mg/L**
7440-48-4	**Cobalt**	**0.0035J**	**0.010**	**0.0025**	**mg/L**
7440-50-8	**Copper**	**0.021**	**0.020**	**0.0050**	**mg/L**
7439-89-6	**Iron**	**0.067J**	**0.20**	**0.050**	**mg/L**
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**195**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**1.35**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**5.57**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-23-5	**Sodium**	**440**	**1.00**	**0.25**	**mg/L**
7440-28-0	**Thallium**	**0.014J**	**0.020**	**0.0050**	**mg/L**
7440-62-2	**Vanadium**	**0.039**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/09/2013 13:51	BNW	519691

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**3080**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	11/08/2013 12:40	AEL	519612

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.49**	**1.00**	**0.250**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080902	**MW-08-02**	Water	11/06/2013 14:35	11/08/2013 09:45

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/15/2013 20:54	JCK	520149

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	**1,2-Dichloroethane**	**4.02J**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080902	**MW-08-02**	Water	11/06/2013 14:35	11/08/2013 09:45

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/15/2013 20:54	JCK	520149

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	53.4	ug/L	107	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.6	ug/L	99	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 13:45	519608	EPA 7470A Dissolved	1	11/11/2013 14:53	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 13:45	519608	EPA 7470A	1	11/11/2013 14:41	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080902	**MW-08-02**	Water	11/06/2013 14:35	11/08/2013 09:45

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 16:15	519605	EPA 3005 Dissolved	1	11/18/2013 18:16	CMB	520243

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.050U	0.20	0.050	mg/L
7440-36-0	Antimony	0.015U	0.060	0.015	mg/L
7440-38-2	**Arsenic**	**0.014J**	**0.020**	**0.0050**	**mg/L**
7440-39-3	**Barium**	**0.015**	**0.010**	**0.0025**	**mg/L**
7440-41-7	Beryllium	0.0010U	0.0040	0.0010	mg/L
7440-43-9	Cadmium	0.0013U	0.0050	0.0013	mg/L
7440-70-2	**Calcium**	**593**	**0.80**	**0.20**	**mg/L**
7440-47-3	**Chromium**	**0.029**	**0.010**	**0.0025**	**mg/L**
7440-48-4	**Cobalt**	**0.0042J**	**0.010**	**0.0025**	**mg/L**
7440-50-8	**Copper**	**0.021**	**0.020**	**0.0050**	**mg/L**
7439-89-6	**Iron**	**1.15**	**0.20**	**0.050**	**mg/L**
7439-92-1	Lead	0.0038U	0.015	0.0038	mg/L
7439-95-4	**Magnesium**	**167**	**0.20**	**0.050**	**mg/L**
7439-96-5	**Manganese**	**1.62**	**0.015**	**0.0038**	**mg/L**
7440-02-0	Nickel	0.010U	0.040	0.010	mg/L
7440-09-7	**Potassium**	**4.06**	**0.50**	**0.13**	**mg/L**
7782-49-2	Selenium	0.010U	0.040	0.010	mg/L
7440-22-4	Silver	0.0025U	0.010	0.0025	mg/L
7440-23-5	**Sodium**	**163**	**1.00**	**0.25**	**mg/L**
7440-28-0	**Thallium**	**0.012J**	**0.020**	**0.0050**	**mg/L**
7440-62-2	**Vanadium**	**0.021**	**0.020**	**0.0050**	**mg/L**
7440-66-6	Zinc	0.0050U	0.020	0.0050	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/09/2013 13:51	BNW	519691

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2990**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	11/08/2013 13:33	AEL	519612

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.250U	1.00	0.250	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080903	**MW-08-03**	Water	11/07/2013 08:55	11/08/2013 09:45

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/15/2013 21:16	JCK	520149

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080903	**MW-08-03**	Water	11/07/2013 08:55	11/08/2013 09:45

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/15/2013 21:16	JCK	520149

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	53.2	ug/L	106	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.8	ug/L	102	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 13:45	519608	EPA 7470A Dissolved	1	11/11/2013 14:58	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 13:45	519608	EPA 7470A	1	11/11/2013 14:28	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080903	**MW-08-03**	Water	11/07/2013 08:55	11/08/2013 09:45

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 16:15	519605	EPA 3005 Dissolved	10	11/15/2013 18:00	CMB	520112

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**540**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	Copper	0.050U	0.20	0.050	mg/L
7439-89-6	Iron	0.50U	2.00	0.50	mg/L
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**719**	**2.00**	**0.50**	**mg/L**
7439-96-5	Manganese	0.038U	0.15	0.038	mg/L
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**16.6**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	**Silver**	**0.030J**	**0.10**	**0.025**	**mg/L**
7440-23-5	**Sodium**	**2660**	**10.0**	**2.50**	**mg/L**
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.16J**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/11/2013 17:18	BNW	519786

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**16400**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	11/08/2013 13:50	AEL	519612

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**11.6**	**4.00**	**1.00**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080904	**MW-08-01**	Water	11/07/2013 09:55	11/08/2013 09:45

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/15/2013 21:38	JCK	520149

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	**1,2-Dichlorobenzene**	**0.257J**	**5.00**	**0.135**	**ug/L**
107-06-2	**1,2-Dichloroethane**	**26.1**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**5.25**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**5.74**	**5.00**	**0.193**	**ug/L**
71-43-2	**Benzene**	**1.25J**	**5.00**	**0.111**	**ug/L**
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	**Ethylbenzene**	**0.785J**	**5.00**	**0.109**	**ug/L**
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080904	**MW-08-01**	Water	11/07/2013 09:55	11/08/2013 09:45

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/15/2013 21:38	JCK	520149

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	**sec-Butylbenzene**	**0.341J**	**5.00**	**0.107**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	**tert-Butylbenzene**	**0.832J**	**5.00**	**0.087**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.5	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	47.5	ug/L	95	87 - 116
2037-26-5	Toluene d8	50	52.6	ug/L	105	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	47.8	ug/L	96	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 13:45	519608	EPA 7470A Dissolved	1	11/11/2013 15:00	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 13:45	519608	EPA 7470A	1	11/11/2013 14:43	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080904	**MW-08-01**	Water	11/07/2013 09:55	11/08/2013 09:45

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 16:15	519605	EPA 3005 Dissolved	10	11/15/2013 18:07	CMB	520112

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**490**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	Copper	0.050U	0.20	0.050	mg/L
7439-89-6	**Iron**	**8.10**	**2.00**	**0.50**	**mg/L**
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**597**	**2.00**	**0.50**	**mg/L**
7439-96-5	**Manganese**	**2.59**	**0.15**	**0.038**	**mg/L**
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**5.08**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	Silver	0.025U	0.10	0.025	mg/L
7440-23-5	**Sodium**	**1830**	**10.0**	**2.50**	**mg/L**
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.092J**	**0.20**	**0.050**	**mg/L**
7440-66-6	**Zinc**	**0.052J**	**0.20**	**0.050**	**mg/L**

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/11/2013 17:18	BNW	519786

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5710**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/08/2013 14:07	AEL	519612

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.500U	2.00	0.500	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080905	**MW-08-01A**	Water	11/07/2013 09:55	11/08/2013 09:45

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/15/2013 22:01	JCK	520149

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	**1,2-Dichlorobenzene**	**0.258J**	**5.00**	**0.135**	**ug/L**
107-06-2	**1,2-Dichloroethane**	**42.2**	**5.00**	**0.116**	**ug/L**
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	**1,2-Dichloropropane**	**6.47**	**5.00**	**0.150**	**ug/L**
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	**Acetone**	**4.55J**	**5.00**	**0.193**	**ug/L**
71-43-2	**Benzene**	**0.534J**	**5.00**	**0.111**	**ug/L**
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	**Ethylbenzene**	**0.276J**	**5.00**	**0.109**	**ug/L**
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	Methylene chloride	0.149U	5.00	0.149	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080905	**MW-08-01A**	Water	11/07/2013 09:55	11/08/2013 09:45

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/15/2013 22:01	JCK	520149

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	**sec-Butylbenzene**	**0.370J**	**5.00**	**0.107**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	**tert-Butylbenzene**	**0.837J**	**5.00**	**0.087**	**ug/L**
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	47.4	ug/L	95	87 - 116
2037-26-5	Toluene d8	50	52.3	ug/L	105	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48	ug/L	96	76 - 127

EPA 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 13:45	519608	EPA 7470A Dissolved	1	11/11/2013 15:02	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 13:45	519608	EPA 7470A	1	11/11/2013 14:44	BAM	519696

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000070U	0.00020	0.000070	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080905	**MW-08-01A**	Water	11/07/2013 09:55	11/08/2013 09:45

EPA 6010C Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
11/08/2013 16:15	519605	EPA 3005 Dissolved	10	11/15/2013 18:14	CMB	520112

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.50U	2.00	0.50	mg/L
7440-36-0	Antimony	0.15U	0.60	0.15	mg/L
7440-38-2	Arsenic	0.050U	0.20	0.050	mg/L
7440-39-3	Barium	0.025U	0.10	0.025	mg/L
7440-41-7	Beryllium	0.010U	0.040	0.010	mg/L
7440-43-9	Cadmium	0.013U	0.050	0.013	mg/L
7440-70-2	**Calcium**	**477**	**8.00**	**2.00**	**mg/L**
7440-47-3	Chromium	0.025U	0.10	0.025	mg/L
7440-48-4	Cobalt	0.025U	0.10	0.025	mg/L
7440-50-8	Copper	0.050U	0.20	0.050	mg/L
7439-89-6	**Iron**	**7.97**	**2.00**	**0.50**	**mg/L**
7439-92-1	Lead	0.038U	0.15	0.038	mg/L
7439-95-4	**Magnesium**	**593**	**2.00**	**0.50**	**mg/L**
7439-96-5	**Manganese**	**2.62**	**0.15**	**0.038**	**mg/L**
7440-02-0	Nickel	0.10U	0.40	0.10	mg/L
7440-09-7	**Potassium**	**4.48J**	**5.00**	**1.25**	**mg/L**
7782-49-2	Selenium	0.10U	0.40	0.10	mg/L
7440-22-4	**Silver**	**0.043J**	**0.10**	**0.025**	**mg/L**
7440-23-5	**Sodium**	**1770**	**10.0**	**2.50**	**mg/L**
7440-28-0	Thallium	0.050U	0.20	0.050	mg/L
7440-62-2	**Vanadium**	**0.11J**	**0.20**	**0.050**	**mg/L**
7440-66-6	Zinc	0.050U	0.20	0.050	mg/L

SM 2540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/14/2013 17:19	BNW	520062

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5610**	**10.0**	**4.39**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	11/08/2013 14:25	AEL	519612

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.500U	2.00	0.500	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080906	**TRIP BLANK**	Water	11/06/2013 00:00	11/08/2013 09:45

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/15/2013 22:23	JCK	520149

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	5.00	0.120	ug/L
71-55-6	1,1,1-Trichloroethane	0.123U	5.00	0.123	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	5.00	0.109	ug/L
79-00-5	1,1,2-Trichloroethane	0.159U	5.00	0.159	ug/L
75-34-3	1,1-Dichloroethane	0.171U	5.00	0.171	ug/L
75-35-4	1,1-Dichloroethene	0.208U	5.00	0.208	ug/L
563-58-6	1,1-Dichloropropene	0.052U	5.00	0.052	ug/L
96-18-4	1,2,3-Trichloropropane	0.065U	5.00	0.065	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.105U	5.00	0.105	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.084U	5.00	0.084	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	5.00	0.194	ug/L
106-93-4	1,2-Dibromoethane	0.102U	5.00	0.102	ug/L
95-50-1	1,2-Dichlorobenzene	0.135U	5.00	0.135	ug/L
107-06-2	1,2-Dichloroethane	0.116U	5.00	0.116	ug/L
540-59-0	1,2-Dichloroethene(Total)	0.180U	10.0	0.180	ug/L
78-87-5	1,2-Dichloropropane	0.150U	5.00	0.150	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.066U	5.00	0.066	ug/L
541-73-1	1,3-Dichlorobenzene	0.138U	5.00	0.138	ug/L
142-28-9	1,3-Dichloropropane	0.059U	5.00	0.059	ug/L
106-46-7	1,4-Dichlorobenzene	0.083U	5.00	0.083	ug/L
594-20-7	2,2-Dichloropropane	0.170U	5.00	0.170	ug/L
78-93-3	2-Butanone	0.142U	5.00	0.142	ug/L
95-49-8	2-Chlorotoluene	0.080U	5.00	0.080	ug/L
591-78-6	2-Hexanone	0.122U	5.00	0.122	ug/L
106-43-4	4-Chlorotoluene	0.124U	5.00	0.124	ug/L
99-87-6	4-Isopropyltoluene	0.070U	5.00	0.070	ug/L
108-10-1	4-Methyl-2-pentanone	0.120U	5.00	0.120	ug/L
67-64-1	Acetone	0.193U	5.00	0.193	ug/L
71-43-2	Benzene	0.111U	5.00	0.111	ug/L
108-86-1	Bromobenzene	0.145U	5.00	0.145	ug/L
74-97-5	Bromochloromethane	0.127U	5.00	0.127	ug/L
75-27-4	Bromodichloromethane	0.083U	5.00	0.083	ug/L
75-25-2	Bromoform	0.215U	5.00	0.215	ug/L
74-83-9	Bromomethane	0.427U	5.00	0.427	ug/L
75-15-0	Carbon disulfide	0.190U	5.00	0.190	ug/L
56-23-5	Carbon tetrachloride	0.248U	5.00	0.248	ug/L
108-90-7	Chlorobenzene	0.083U	5.00	0.083	ug/L
75-00-3	Chloroethane	0.235U	5.00	0.235	ug/L
67-66-3	Chloroform	0.155U	5.00	0.155	ug/L
74-87-3	Chloromethane	0.144U	5.00	0.144	ug/L
124-48-1	Dibromochloromethane	0.054U	5.00	0.054	ug/L
74-95-3	Dibromomethane	0.211U	5.00	0.211	ug/L
75-71-8	Dichlorodifluoromethane	0.145U	5.00	0.145	ug/L
100-41-4	Ethylbenzene	0.109U	5.00	0.109	ug/L
87-68-3	Hexachlorobutadiene	0.265U	5.00	0.265	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.130U	5.00	0.130	ug/L
74-88-4	Methyl iodide	0.084U	5.00	0.084	ug/L
75-09-2	**Methylene chloride**	**1.40J**	**5.00**	**0.149**	**ug/L**
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
100-42-5	Styrene	0.089U	5.00	0.089	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21311080906	**TRIP BLANK**	Water	11/06/2013 00:00	11/08/2013 09:45

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/15/2013 22:23	JCK	520149

CAS#	Parameter	Result	RDL	MDL	Units
127-18-4	Tetrachloroethene	0.193U	5.00	0.193	ug/L
108-88-3	Toluene	0.122U	5.00	0.122	ug/L
79-01-6	Trichloroethene	0.161U	5.00	0.161	ug/L
75-69-4	Trichlorofluoromethane	0.157U	5.00	0.157	ug/L
76-13-1	Trichlorotrifluoroethane	0.158U	5.00	0.158	ug/L
75-01-4	Vinyl chloride	0.127U	5.00	0.127	ug/L
1330-20-7	Xylene (total)	0.179U	15.0	0.179	ug/L
156-59-2	cis-1,2-Dichloroethene	0.103U	5.00	0.103	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.124U	5.00	0.124	ug/L
136777-61-2	m,p-Xylene	0.123U	10.0	0.123	ug/L
104-51-8	n-Butylbenzene	0.123U	5.00	0.123	ug/L
103-65-1	n-Propylbenzene	0.727U	5.00	0.727	ug/L
95-47-6	o-Xylene	0.055U	5.00	0.055	ug/L
135-98-8	sec-Butylbenzene	0.107U	5.00	0.107	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	5.00	0.078	ug/L
98-06-6	tert-Butylbenzene	0.087U	5.00	0.087	ug/L
156-60-5	trans-1,2-Dichloroethene	0.077U	5.00	0.077	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.128U	5.00	0.128	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	5.00	0.264	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.9	ug/L	104	84 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	53.6	ug/L	107	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.4	ug/L	97	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch	520149	**Client ID**	MB520149			LCS520149			LCSD520149		
Prep Batch	N/A	**GCAL ID**	1257174			1257175			1257176		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	11/15/2013 19:04			11/15/2013 17:35			11/15/2013 17:58		
		Matrix	Water			Water			Water		
EPA 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.193U	0.193	50.0	49.0	98	59 - 134	51.2	102	4	30
74-97-5	Bromochloromethane	0.127U	0.127	50.0	50.6	101	78 - 112	49.1	98	3	30
75-27-4	Bromodichloromethane	0.083U	0.083	50.0	48.5	97	76 - 116	46.9	94	3	30
75-25-2	Bromoform	0.215U	0.215	50.0	52.3	105	68 - 128	52.6	105	1	30
74-83-9	Bromomethane	0.427U	0.427	50.0	51.7	103	55 - 151	51.9	104	0	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	50.1	100	67 - 147	45.3	91	10	30
56-23-5	Carbon tetrachloride	0.248U	0.248	50.0	48.4	97	74 - 139	46.1	92	5	30
75-00-3	Chloroethane	0.235U	0.235	50.0	44.0	88	54 - 166	41.0	82	7	30
136777-61-2	m,p-Xylene	0.123U	0.123	100	107	107	83 - 121	102	102	5	30
67-66-3	Chloroform	0.155U	0.155	50.0	47.1	94	85 - 123	45.2	90	4	30
74-87-3	Chloromethane	0.144U	0.144	50.0	47.7	95	55 - 173	44.5	89	7	30
124-48-1	Dibromochloromethane	0.054U	0.054	50.0	49.4	99	74 - 116	49.1	98	1	30
74-95-3	Dibromomethane	0.211U	0.211	50.0	48.0	96	81 - 116	47.6	95	1	30
75-71-8	Dichlorodifluoromethane	0.145U	0.145	50.0	47.8	96	34 - 158	44.5	89	7	30
75-34-3	1,1-Dichloroethane	0.171U	0.171	50.0	48.0	96	82 - 127	46.2	92	4	30
107-06-2	1,2-Dichloroethane	0.116U	0.116	50.0	47.4	95	76 - 122	46.2	92	3	30
156-59-2	cis-1,2-Dichloroethene	0.103U	0.103	50.0	51.5	103	81 - 114	49.5	99	4	30
156-60-5	trans-1,2-Dichloroethene	0.077U	0.077	50.0	51.3	103	82 - 126	47.7	95	7	30
75-09-2	Methylene chloride	0.149U	0.149	50.0	45.9	92	69 - 125	43.2	86	6	30
78-87-5	1,2-Dichloropropane	0.150U	0.150	50.0	49.8	100	81 - 120	47.6	95	5	30
10061-01-5	cis-1,3-Dichloropropene	0.124U	0.124	50.0	53.4	107	83 - 119	51.5	103	4	30
10061-02-6	trans-1,3-Dichloropropene	0.128U	0.128	50.0	51.9	104	87 - 123	50.6	101	3	30
100-41-4	Ethylbenzene	0.109U	0.109	50.0	50.8	102	87 - 118	48.8	98	4	30
591-78-6	2-Hexanone	0.122U	0.122	50.0	54.3	109	58 - 125	55.4	111	2	30
98-82-8	Isopropylbenzene (Cumene)	0.130U	0.130	50.0	55.5	111	87 - 131	51.3	103	8	30
78-93-3	2-Butanone	0.142U	0.142	50.0	52.5	105	61 - 127	51.8	104	1	30
74-88-4	Methyl iodide	0.084U	0.084	50.0	48.2	96	72 - 125	47.6	95	1	30
108-10-1	4-Methyl-2-pentanone	0.120U	0.120	50.0	49.7	99	62 - 125	51.2	102	3	30
103-65-1	n-Propylbenzene	0.727U	0.727	50.0	53.9	108	86 - 125	49.3	99	9	30
100-42-5	Styrene	0.089U	0.089	50.0	53.8	108	78 - 118	51.7	103	4	30
127-18-4	Tetrachloroethene	0.193U	0.193	50.0	51.2	102	80 - 131	47.8	96	7	30
630-20-6	1,1,1,2-Tetrachloroethane	0.120U	0.120	50.0	48.4	97	81 - 119	47.7	95	1	30
79-34-5	1,1,2,2-Tetrachloroethane	0.109U	0.109	50.0	51.6	103	71 - 120	51.3	103	1	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	520149	**Client ID**	MB520149			LCS520149			LCSD520149		
Prep Batch	N/A	**GCAL ID**	1257174			1257175			1257176		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	11/15/2013 19:04			11/15/2013 17:35			11/15/2013 17:58		
		Matrix	Water			Water			Water		
EPA 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	0.105U	0.105	50.0	60.9	122	68 - 123	54.4	109	11	30
71-55-6	1,1,1-Trichloroethane	0.123U	0.123	50.0	48.6	97	79 - 133	46.2	92	5	30
79-00-5	1,1,2-Trichloroethane	0.159U	0.159	50.0	48.0	96	80 - 114	47.7	95	1	30
75-69-4	Trichlorofluoromethane	0.157U	0.157	50.0	49.0	98	66 - 156	46.3	93	6	30
96-18-4	1,2,3-Trichloropropane	0.065U	0.065	50.0	47.0	94	77 - 115	46.9	94	0	30
95-63-6	1,2,4-Trimethylbenzene	0.084U	0.084	50.0	57.1	114	82 - 120	52.6	105	8	30
108-67-8	1,3,5-Trimethylbenzene	0.066U	0.066	50.0	55.8	112	83 - 123	51.3	103	8	30
75-01-4	Vinyl chloride	0.127U	0.127	50.0	51.1	102	57 - 153	45.9	92	11	30
95-47-6	o-Xylene	0.055U	0.055	50.0	55.9	112	83 - 121	53.1	106	5	30
96-12-8	1,2-Dibromo-3-chloropropane	0.194U	0.194	50.0	50.8	102	61 - 118	51.4	103	1	30
106-93-4	1,2-Dibromoethane	0.102U	0.102	50.0	50.3	101	80 - 115	49.7	99	1	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078	50.0	52.5	105	75 - 116	51.9	104	1	30
540-59-0	1,2-Dichloroethene(Total)	0.180U	0.180	100	103	103	74 - 128	97.3	97	6	30
99-87-6	4-Isopropyltoluene	0.070U	0.070	50.0	59.2	118	83 - 125	52.9	106	11	30
1330-20-7	Xylene (total)	0.179U	0.179	150	163	109	74 - 127	155	103	5	30
110-57-6	trans-1,4-Dichloro-2-butene	0.264U	0.264	50.0	52.3	105	51 - 137	51.5	103	2	30
594-20-7	2,2-Dichloropropane	0.170U	0.170	50.0	51.8	104	77 - 138	48.8	98	6	30
76-13-1	Trichlorotrifluoroethane	0.158U	0.158	50.0	48.4	97	74 - 139	45.7	91	6	30
563-58-6	1,1-Dichloropropene	0.052U	0.052	50.0	51.2	102	87 - 127	48.7	97	5	30
142-28-9	1,3-Dichloropropane	0.059U	0.059	50.0	49.7	99	81 - 113	49.1	98	1	30
108-86-1	Bromobenzene	0.145U	0.145	50.0	50.0	100	83 - 115	47.5	95	5	30
95-49-8	2-Chlorotoluene	0.080U	0.080	50.0	54.0	108	81 - 121	50.1	100	7	30
106-43-4	4-Chlorotoluene	0.124U	0.124	50.0	54.1	108	84 - 120	50.8	102	6	30
98-06-6	tert-Butylbenzene	0.087U	0.087	50.0	56.9	114	83 - 126	51.5	103	10	30
135-98-8	sec-Butylbenzene	0.107U	0.107	50.0	57.0	114	86 - 127	50.9	102	11	30
541-73-1	1,3-Dichlorobenzene	0.138U	0.138	50.0	52.3	105	86 - 115	48.8	98	7	30
106-46-7	1,4-Dichlorobenzene	0.083U	0.083	50.0	50.1	100	87 - 113	46.6	93	7	30
104-51-8	n-Butylbenzene	0.123U	0.123	50.0	58.7	117	84 - 124	51.5	103	13	30
95-50-1	1,2-Dichlorobenzene	0.135U	0.135	50.0	52.7	105	85 - 115	49.6	99	6	30
87-68-3	Hexachlorobutadiene	0.265U	0.265	50.0	60.2	120	71 - 133	51.7	103	15	30
91-20-3	Naphthalene	0.176U	0.176	50.0	52.2	104	59 - 125	50.3	101	4	35
75-35-4	1,1-Dichloroethene	0.208U	0.208	50.0	50.4	101	75 - 133	47.5	95	6	20
71-43-2	Benzene	0.111U	0.111	50.0	50.3	101	83 - 124	48.2	96	4	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	520149	**Client ID**	MB520149	LCS520149	LCSD520149
Prep Batch	N/A	**GCAL ID**	1257174	1257175	1257176
		Sample Type	Method Blank	LCS	LCSD
		Analytical Date	11/15/2013 19:04	11/15/2013 17:35	11/15/2013 17:58
		Matrix	Water	Water	Water

EPA 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
79-01-6	Trichloroethene	0.161U	0.161	50.0	50.2	100	85 - 124	47.5	95	6	20
108-88-3	Toluene	0.122U	0.122	50.0	49.5	99	86 - 116	47.1	94	5	20
108-90-7	Chlorobenzene	0.083U	0.083	50.0	48.5	97	87 - 115	46.6	93	4	20
Surrogate											
460-00-4	4-Bromofluorobenzene	52	104	50	50.6	101	84 - 120	51.2	102		
1868-53-7	Dibromofluoromethane	49.3	99	50	49.4	99	87 - 116	49.5	99		
2037-26-5	Toluene d8	52.5	105	50	49.7	99	86 - 112	50.2	100		
17060-07-0	1,2-Dichloroethane-d4	48.5	97	50	47.9	96	76 - 127	48.2	96		

Inorganics Quality Control Summary

Analytical Batch	519696	**Client ID**	MW-08-03			1254596MS			1254596MSD		
Prep Batch	519608	**GCAL ID**	21311080903			1254647			1254648		
Prep Method	EPA 7470A	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	11/08/2013 13:45			11/08/2013 13:45			11/08/2013 13:45		
		Analytical Date	11/11/2013 14:28			11/11/2013 14:30			11/11/2013 14:32		
		Matrix	Water			Water			Water		
EPA 7470A		**Units**	mg/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.0	0.000070		0.0050	0.0042	83	80 - 120	0.0040	80	3	10

Analytical Batch	519806	**Client ID**	MB519608			LCS519608		
Prep Batch	519608	**GCAL ID**	1254645			1254646		
Prep Method	EPA 7470A	**Sample Type**	Method Blank			LCS		
		Prep Date	11/08/2013 13:45			11/08/2013 13:45		
		Analytical Date	11/11/2013 14:25			11/12/2013 11:52		
		Matrix	Water			Water		
EPA 7470A		**Units**	mg/L		**Spike**	**Result**		**Control**
		Result	**RDL**		**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000070U	0.000070		0.0050	0.0051	103	88 - 111

Inorganics Quality Control Summary

Analytical Batch	520243	**Client ID**	MB519605	LCS519605
Prep Batch	519605	**GCAL ID**	1254633	1254634
Prep Method	EPA 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	11/08/2013 16:15	11/08/2013 16:15
		Analytical Date	11/15/2013 16:55	11/18/2013 17:19
		Matrix	Water	Water

EPA 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.050U	0.050	5.00	5.12	102	80 - 120
7440-36-0	Antimony	0.015U	0.015	0.50	0.48	96	80 - 120
7440-38-2	Arsenic	0.0057J	0.0050	0.50	0.54	108	80 - 120
7440-39-3	Barium	0.0025U	0.0025	0.50	0.51	102	80 - 120
7440-41-7	Beryllium	0.0010U	0.0010	0.50	0.50	100	80 - 120
7440-43-9	Cadmium	0.0013U	0.0013	0.50	0.53	107	80 - 120
7440-70-2	Calcium	0.20U	0.20	5.00	5.08	102	80 - 120
7440-47-3	Chromium	0.0025U	0.0025	0.50	0.51	102	80 - 120
7440-48-4	Cobalt	0.0025U	0.0025	0.50	0.51	102	80 - 120
7440-50-8	Copper	0.0050U	0.0050	0.50	0.48	96	80 - 120
7439-89-6	Iron	0.050U	0.050	5.00	5.13	103	80 - 120
7439-92-1	Lead	0.0038U	0.0038	0.50	0.53	106	80 - 120
7439-95-4	Magnesium	0.050U	0.050	5.00	5.27	105	80 - 120
7439-96-5	Manganese	0.0038U	0.0038	0.50	0.51	102	80 - 120
7440-02-0	Nickel	0.010U	0.010	0.50	0.51	102	80 - 120
7440-09-7	Potassium	0.13U	0.13	10.0	10.4	104	80 - 120
7782-49-2	Selenium	0.010U	0.010	0.50	0.55	110	80 - 120
7440-22-4	Silver	0.0025U	0.0025	0.50	0.52	104	80 - 120
7440-23-5	Sodium	1.09	0.25	20.0	19.0	95	80 - 120
7440-28-0	Thallium	0.0050U	0.0050	0.50	0.53	106	80 - 120
7440-62-2	Vanadium	0.0050U	0.0050	0.50	0.49	99	80 - 120
7440-66-6	Zinc	0.0050U	0.0050	0.50	0.53	106	80 - 120

Inorganics Quality Control Summary

Analytical Batch	520243	**Client ID**	MW-08-07	1254594MS	1254594MSD
Prep Batch	519605	**GCAL ID**	21311080901	1254635	1254636
Prep Method	EPA 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	11/08/2013 16:15	11/08/2013 16:15	11/08/2013 16:15
		Analytical Date	11/18/2013 17:26	11/18/2013 17:33	11/18/2013 17:40
		Matrix	Water	Water	Water

EPA 6010C Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.050	5.00	4.85	97	80 - 120	4.92	98	1	20
7440-36-0	Antimony	0.0	0.015	0.50	0.54	108	80 - 120	0.56	111	3	20
7440-38-2	Arsenic	0.040	0.0050	0.50	0.60	112	80 - 120	0.63	118	5	20
7440-39-3	Barium	0.012	0.0025	0.50	0.18	**33***	80 - 120	0.19	**35***	5	20
7440-41-7	Beryllium	0.0	0.0010	0.50	0.49	99	80 - 120	0.52	103	5	20
7440-43-9	Cadmium	0.0	0.0013	0.50	0.48	96	80 - 120	0.51	101	5	20
7440-70-2	Calcium	575	0.20	5.00	571	**-91***	80 - 120	564	**-219***	1	20
7440-47-3	Chromium	0.028	0.0025	0.50	0.50	94	80 - 120	0.52	98	4	20
7440-48-4	Cobalt	0.0035	0.0025	0.50	0.47	94	80 - 120	0.49	96	3	20
7440-50-8	Copper	0.021	0.0050	0.50	0.52	99	80 - 120	0.54	103	4	20
7439-89-6	Iron	0.067	0.050	5.00	4.99	98	80 - 120	5.12	101	3	20
7439-92-1	Lead	0.0	0.0038	0.50	0.33	**67***	80 - 120	0.34	**68***	3	20
7439-95-4	Magnesium	195	0.050	5.00	193	**-46***	80 - 120	197	**24***	2	20
7439-96-5	Manganese	1.35	0.0038	0.50	1.80	90	80 - 120	1.86	102	3	20
7440-02-0	Nickel	0.0	0.010	0.50	0.45	91	80 - 120	0.47	94	3	20
7440-09-7	Potassium	5.57	0.13	10.0	15.8	102	80 - 120	15.9	104	1	20
7782-49-2	Selenium	0.0	0.010	0.50	0.56	111	80 - 120	0.57	114	3	20
7440-22-4	Silver	0.0	0.0025	0.50	0.049	**10***	80 - 120	0.070	**14***	**36***	20
7440-23-5	Sodium	440	0.25	20.0	455	**74***	80 - 120	458	88	1	20
7440-28-0	Thallium	0.014	0.0050	0.50	0.49	95	80 - 120	0.50	97	3	20
7440-62-2	Vanadium	0.039	0.0050	0.50	0.53	99	80 - 120	0.56	104	4	20
7440-66-6	Zinc	0.0	0.0050	0.50	0.52	104	80 - 120	0.55	109	5	20

General Chemistry Quality Control Summary

Analytical Batch 519691	**Client ID**	MB519691			LCS519691		
Prep Batch N/A	**GCAL ID**	1255152			1255153		
	Sample Type	Method Blank			LCS		
	Analytical Date	11/09/2013 13:51			11/09/2013 13:51		
	Matrix	Water			Water		
SM 2540 C-2011		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	991	99	90 - 110

Analytical Batch 519691	**Client ID**	MRAA-07M		1254933DUP		
Prep Batch N/A	**GCAL ID**	21311085305		1255155		
	Sample Type	SAMPLE		DUP		
	Analytical Date	11/09/2013 13:51		11/09/2013 13:51		
	Matrix	Water		Water		
SM 2540 C-2011		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1660	4.39	1650	1	5

Analytical Batch 519786	**Client ID**	MB519786			LCS519786		
Prep Batch N/A	**GCAL ID**	1255572			1255573		
	Sample Type	Method Blank			LCS		
	Analytical Date	11/11/2013 17:18			11/11/2013 17:18		
	Matrix	Water			Water		
SM 2540 C-2011		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	958	96	90 - 110

Analytical Batch 519786	**Client ID**	SD08-MW13		1253280DUP		
Prep Batch N/A	**GCAL ID**	21311061102		1255574		
	Sample Type	SAMPLE		DUP		
	Analytical Date	11/11/2013 17:18		11/11/2013 17:18		
	Matrix	Water		Water		
SM 2540 C-2011		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	33500	43.9	33600	0	5

General Chemistry Quality Control Summary

Analytical Batch 520062	**Client ID**	MB520062			LCS520062		
Prep Batch N/A	**GCAL ID**	1256721			1256722		
	Sample Type	Method Blank			LCS		
	Analytical Date	11/14/2013 17:19			11/14/2013 17:19		
	Matrix	Water			Water		
SM 2540 C-2011		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	4.39U	4.39	1000	937	94	90 - 110

Analytical Batch 520062	**Client ID**	MW-08-01A		1254598DUP		
Prep Batch N/A	**GCAL ID**	21311080905		1256723		
	Sample Type	FLDDUP		DUP		
	Analytical Date	11/14/2013 17:19		11/14/2013 17:19		
	Matrix	Water		Water		
SM 2540 C-2011		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	5610	4.39	5620	0	5

General Chemistry Quality Control Summary

Analytical Batch 519612	**Client ID**	MB519612			LCS519612		
Prep Batch N/A	**GCAL ID**	1254694			1254695		
	Sample Type	Method Blank			LCS		
	Analytical Date	11/08/2013 12:06			11/08/2013 12:23		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.050U	0.050	2.50	2.49	100	80 - 120

Analytical Batch 519612	**Client ID**	MW-08-07			1254594MS			1254594MSD			
Prep Batch N/A	**GCAL ID**	21311080901			1254696			1254697			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	11/08/2013 12:40			11/08/2013 12:58			11/08/2013 13:15			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	1.49	0.250	12.5	13.9	99	80 - 120	14.2	102	2	15

NATIONVIEW

Page: 1 of 1

NV Project No: 10-0004

COC Number(1): 11072013-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SD-08 Quarterly Groundwater Sampling (Q8)

Client Name: USACE Omaha District

Collected by: Tony Lucero / Brian Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	TAL Metals [Dissolved] (6010B/7470A)	Mercury [Total] (6010B/7470A)	TDS (SM19 2540C)	Nitrate (300/9056)				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)									Quality Assurance Samples (6)			
MW-08-07	MW-08-07	06112013	1335	-	N	1	WG	7	Ξ	Ξ	Ξ	Ξ	Ξ							1
MW-08-02	MW-08-02	06112013	1435	-	N	1	WG	7	Ξ	Ξ	Ξ	Ξ	Ξ							2
MW-08-03	MW-08-03	07112013	0855	-	N	1	WG	7	Ξ	Ξ	Ξ	Ξ	Ξ							3
MW-08-01	MW-08-01	07112013	0955		N	1	WG	7	Ξ	Ξ	Ξ	Ξ	Ξ							4
MW-08-01A	MW-08-01A	07112013	0955		FD	1	WG	7	Ξ	Ξ	Ξ	Ξ	Ξ							5
Trip Blank	FIELD QC			-	TB		AQ	1	Ξ											6

Client ID: 4771 - NationView LLC

SDG: 213110809

Due Date: 11/19/13

COMMENTS: Dissolved TAL Metals filtered in the field

Email Results to: tlucero@nationview.net, jhymer@nationview.net.

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero	11072013	1600	1.		
2. Fed Ex	11/8/13	0945	2.	11/8/13	0945
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	1.1E24
Method of Shipment:	Fed Ex	Airbill Number:	797107740413
Analytical Lab:	GCAL	Delivery Location:	Baton Rogue, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

7971-0774-3413

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

213110809

SAMPLE DELIVERY GROUP 213110809

Client 4771 - NationView LLC	**Transport Method** FEDEX
Profile Number 204817	**Received By** Saucier, Charlotte
Line Item(s) 3 - SD-08	**Receive Date(s)** 11/08/13

CHECKLIST	YES	NO	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☑	☐	☐
Was preservative added to any container at the lab?	☐	☑	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☑	☐	☐
Do all sample labels match the Chain of Custody?	☑	☐	☐
Did the Chain of Custody list the sampling technician?	☑	☐	☐
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑	☐	☐

COOLERS

Airbill	Thermometer ID: E24	Temp(°C)
7971 0774 0413		1.1

DISCREPANCIES

None

LAB PRESERVATIONS

None

NOTES

APPENDIX E

DATA VALIDATION REPORTS

(Provided on Enclosed CD)

E-1

Additional Investigation (2006-07, Bhate)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Michael J. D'Auben, Bhate Environmental Associates, Inc., Birmingham, Alabama.

Introduction

This data validation is for two samples collected at the SD-08 site at Holloman Air Force Base, New Mexico in October 2006. These samples were analyzed by Accutest Laboratories of Orlando, Florida. The specific samples included in this validation are:

Sample ID	Matrix	Collection Date	Lab SDG	Analyses (USEPA Method Number)
SD-08-SB22-2	Soil	10/27/06	F44814	VOC (8260B), SVOC (8270C), Pesticides (8081A), Metals (6010B/7471A)
SD-08-SB22-7	Soil	10/27/06	F44814	VOC (8260B), SVOC (8270C), Pesticides (8081A), Metals (6010B/7471A)
Notes: SDG – Sample Delivery Group, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOC – Semi-volatile Organic Compounds				

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices promulgated in the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, October 1999) and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004) (NFGs).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis. The laboratory prepared and analyzed all samples within the holding times prescribed by the USEPA except for samples SD-08-SB22-EB and the trip blank for method SW8260. These samples represent the equipment blank and the aqueous trip blank. Since no volatile compounds were detected in the associated field samples, using professional judgment no qualification of the data was required.

Blanks

There were three types of blank associated with this sample; method blanks, equipment blanks, and trip blanks. There was bromodichloromethane, chloroform, barium, and lead reported in the equipment blanks in this data package. Any positive results in the

associate field samples less than five times the blank concentration should be considered non-detects “U”.

Surrogates

All surrogate results were within the laboratory’s method specific QC. No qualification of the data is required.

Laboratory Control Samples

All laboratory control sample (LCS) results met the QC requirements except for vinyl acetate and acrolein which exceeded the associated QC limits. This may indicate a high bias to the data but since no positive results for these two compounds were reported, no qualification of the data is required.

Matrix Spike/Matrix Spike Duplicates

All Matrix Spike and Matrix Spike Duplicate (MS/MSD) results were within method specific QC limits with the following exceptions. The recovery for acrolein, barium, benzidine, 4-chloroaniline, 3,3'-dichlorobenzidine, dibenzofuran, 2-methylnaphthalene, 2-nitroaniline, 3-nitroaniline, 4-nitroaniline, and p-chlorotoluene exceeded the associated QC limits. This may indicate a matrix effect and a high bias to the data. Any positive results reported for these parameters should be considered estimated “J”.

The recoveries for 2-chloronaphthalene, 1,2,4-trimethylbenzene, 4-bromophenyl phenyl ether, and pentachlorophenol were less than the associated QC limits. This may indicate a low bias to the data and all results were considered estimated non detected, “UJ”.

The relative percent difference (RPD) results for barium, 2-methylnaphthalene, 2-nitroaniline, 3,3'-dichlorobenzidine, 3-nitroaniline, 4-chloroaniline, 4-nitroaniline, benzidine, benzyl alcohol, dibenzofuran, and pentachlorophenol exceeded the associated QC limits. This may indicate a matrix effect but since no positive results were reported no qualification of the data was required.

Project Specific Quality Assurance/Quality Control

There was no field duplicate sample collected as part of this sample delivery group. No qualification of the data was required.

Compound Quantitation and Reporting Limits

All of the sample results were reported down to the laboratory method detection limits (MDLs) and none of the samples displayed elevated reporting limits (RLs) due to dilutions or matrix. No qualification of the data is required.

Overall Assessment of Data

Overall, the data should all be suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria except as noted. All analyses were completed, and no data points were rejected due to QC failure. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier
SD-08-SB22-2	Lead	U
	Barium	J
	2-Chloronaphthalene	UJ
	1,2,4-Trimethylbenzene	UJ
	4-Bromophenyl phenyl ether	UJ
	Pentachlorophenol	UJ
SD-08-SB22-7	Lead	U
	Barium	J
	2-Chloronaphthalene	UJ
	1,2,4-Trimethylbenzene	UJ
	4-Bromophenyl phenyl ether	UJ
	Pentachlorophenol	UJ

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Michael J. D'Auben, Bhate Environmental Associates, Inc., Birmingham, Alabama.

Introduction

This data validation is for five samples collected at the SD-08 site at Holloman Air Force Base, New Mexico in October 2006. These samples were analyzed by Accutest Laboratories of Orlando, Florida. The specific samples included in this validation are:

Sample ID	Matrix	Collection Date	Lab SDG	Analyses (USEPA Method Number)
SD-08-SB21-2	Soil	10/27/06	F44808	VOC (8260B), SVOC (8270C), Pesticides (8081A), Metals (6010B/7471A)
SD-08-SB21-2a	Soil	10/27/06	F44808	VOC (8260B), SVOC (8270C), Pesticides (8081A), Metals (6010B/7471A
SD-08-SB21-6	Soil	10/27/06	F44808	VOC (8260B), SVOC (8270C), Pesticides (8081A), Metals (6010B/7471A
SD-08-SB23-4	Soil	10/27/06	F44808	VOC (8260B), SVOC (8270C), Pesticides (8081A), Metals (6010B/7471A
SD-08-SB23-7	Soil	10/27/06	F44808	VOC (8260B), SVOC (8270C), Pesticides (8081A), Metals (6010B/7471A
Notes: SDG – Sample Delivery Group, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOC – Semi-volatile Organic Compounds				

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices promulgated in the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, October 1999) and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004) (NFGs).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis. The laboratory prepared and analyzed all samples within the holding times prescribed by the USEPA for each method.

Blanks

There were two types of blanks associated with these samples; method blanks and trip blanks. There were no positive results reported in any of the blanks in this data package. No qualification of the data is required.

Surrogates

All surrogate results were within the laboratory's method specific QC limits with the following exceptions. The recoveries for one of the SVOC surrogates in samples SD-08-SB21-2 and SD-08-SB21-2a was less than the associated QC limits for Run #1. This surrogate was within the associated QC limit on the confirmation run. Since all the other SVOC surrogates were within the associated QC limits, no qualification of the data was required.

Laboratory Control Samples

The Laboratory Control Sample (LCS) results were all within method specific QC limits with the following exceptions. The LCS recoveries for vinyl acetate and acrolein exceeded the associated QC limits. This may indicate a high bias to the data but since no positive results for these two compounds were reported, no qualification of the data is required.

Matrix Spike/Matrix Spike Duplicates

All Matrix Spike and Matrix Spike Duplicate (MS/MSD) results were within method specific QC limits with the following exceptions. The recovery for acrolein exceeded the associated QC limits. This may indicate a high bias to the data but since no positive results for this compound were reported, no qualification of the data is required. The recovery for benzidine was less than the associated QC limits. This may indicate a low bias to the data and all results should be considered estimated "J" or "UJ".

The relative percent difference (RPD) results for benzoic acid exceeded the associated QC limits. This may indicate a matrix effect but since no positive results were reported no qualification of the data was required.

Project Specific Quality Assurance/Quality Control

There was one field duplicate sample (SD-08-SB21-2a) collected as part of this sample delivery group. The field duplicate results met the required QC criteria. No qualification of the data was required.

Compound Quantitation and Reporting Limits

All of the sample results were reported down to the laboratory method detection limits (MDLs) and none of the samples displayed elevated reporting limits (RLs) due to dilutions or matrix with the following exceptions. The RLs for selenium in samples SD-

08-SB21-6, SD-08-SB23-4, and SD-08-SB23-7 were elevated due to matrix interference. No qualification of the data is required but the elevated RLs should be considered when using any non-detects for decision making purposes.

Overall Assessment of Data

Overall, the data should all be suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria except as noted. All analyses were completed, and no data points were rejected due to QC failure. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier
SD-08-SB21-2	Benzidine	UJ
SD-08-SB21-2a	Benzidine	UJ
SD-08-SB21-6	Benzidine	UJ
SD-08-SB23-4	Benzidine	UJ
SD-08-SB23-7	Benzidine	UJ

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Michael J. D'Auben, Bhate Environmental Associates, Inc., Birmingham, Alabama.

Introduction

This data validation is for three samples collected at the SD08 site at Holloman Air Force Base, New Mexico in November 2006. These samples were analyzed by Accutest Laboratories of Orlando, Florida. The specific samples included in this validation are:

Sample ID	Matrix	Collection Date	Lab SDG	Analyses (USEPA Method Number)
SD-08-MW08-01	Water	11/13/06	F45254	VOC (8260B), SVOC (8270C), Pesticides (8081A), Metals (200.7/245.1)
SD-08-MW08-05	Water	11/13/06	F45254	VOC (8260B), SVOC (8270C), Pesticides (8081A), Metals (200.7/245.1)
S10-MW01	Water	11/13/06	F45254	VOC (8260B), SVOC (8270C), Pesticides (8081A), Metals (200.7/245.1)
Notes: SDG – Sample Delivery Group, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOC – Semi-volatile Organic Compounds				

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices promulgated in the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, October 1999) and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004) (NFGs).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis. The laboratory prepared and analyzed all samples within the holding times prescribed by the USEPA for each method with the following exceptions. The volatile analyses for sample SD-08-MW08-01 was re-run outside of the established holding time. Therefore, the volatile results for 1,2-dichloroethane which were reported from the second analysis in this sample should be considered estimated "J". The semi-volatile confirmation analyses for SD-08-MW08-01, SD-08-MW08-05, and S10-MW01 were run outside of the established holding times for extraction by eight days. Therefore, all SVOC results for these samples should be considered estimated non-detect, "UJ".

Blanks

There were two types of blanks associated with this sample; method and trip. There were no positive results reported in any of the blanks in this data package with the following exceptions. There was acetone and methylene chloride reported in one of the trip blanks.

Since there were no positive results reported for these compounds in the associated field samples, no qualification of the data is required.

Surrogates

All surrogate results were within the laboratory's method specific QC limits with the following exceptions. There were two or more surrogates with recoveries less than the associated QC limits in samples S10-MW01 and SD-08-MW08-01 for Run #1. Since all the SVOC surrogates were within the associated QC limits in the confirmatory run, no qualification of the data was required.

Laboratory Control Samples

The Laboratory Control Sample (LCS) results associated with this data package were all within the required QC limits with the following exceptions. The recoveries for chlorobenzene, cis-1,3-dichloropropene, and methylene bromide exceeded the associated QC limits. This may indicate a high bias to the data and but since no positive results for these compounds were reported, not qualification of the data was required.

The recoveries for 2,4-dichlorophenol, 2,4-dimethylphenol, 2-chlorophenol, 2-methylphenol, 3&4-methylphenol, 4-chloro-3-methyl phenol, 4-nitrophenol, and phenol were all less than the associated QC limits. This may indicate a low bias to the data and all results for these compounds should be considered estimated "J" or "UJ".

Matrix Spike/Matrix Spike Duplicates

The Matrix Spike and Matrix Spike Duplicate (MS/MSD) results associated with this data package were all within the required QC limits, with the following exceptions. The recoveries for acrolein, cis-1,3-dichloropropene, methyl ethyl ketone, methyl methacrylate, methylene bromide, naphthalene, and trichloroethylene exceeded the associated QC limits. This may indicate a matrix effect and a high bias to the data. All positive results for these compounds in the associated samples should be considered estimated "J".

The recoveries for 2-chloroethyl vinyl ether, 4,4'-DDE, 4,4'-DDT, and methoxychlor were less than the associated QC limits. This may indicate a matrix effect and a low bias to the data. All results for these compounds should be considered estimated "J" or "UJ".

The relative percent difference (RPD) results for endrin aldehyde and mercury exceeded the associated QC limits. This may indicate a matrix effect and all positive results for these compounds in the associated field sample should be considered estimated "J".

Project Specific Quality Assurance/Quality Control

There was no field duplicate sample collected as part of this sample delivery group. No qualification of the data was required.

Compound Quantitation and Reporting Limits

All of the sample results were reported down to the laboratory method detection limits (MDLs) and none of the samples displayed elevated reporting limits (RLs) due to dilutions or matrix. No qualification of the data was required.

Overall Assessment of Data

Overall, the data should all be suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria except where noted. All analyses were completed, and no data points were rejected due to QC failure. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier
SD-08-MW08-01	1,2-Dichloroethane	J
	Mercury	J
	2-Chloroethyl vinyl ether	UJ
	4,4'-DDE	UJ
	4,4'-DDT	UJ
	Methoxychlor	UJ
	All SVOCs	UJ
SD-08-MW08-05	Mercury	J
	2-Chloroethyl vinyl ether	UJ
	4,4'-DDE	UJ
	4,4'-DDT	UJ
	Methoxychlor	UJ
	Methyl ethyl ketone	J
	All SVOCs	UJ
S10-MW01	Mercury	J
	2-Chloroethyl vinyl ether	UJ
	4,4'-DDE	UJ
	4,4'-DDT	UJ
	Methoxychlor	UJ
	All SVOCs	UJ

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Michael J. D'Auben, Bhate Environmental Associates, Inc., Birmingham, Alabama.

Introduction

This data validation is for two samples collected at the SD-08 site at Holloman Air Force Base, New Mexico in November 2006. These samples were analyzed by Accutest Laboratories of Orlando, Florida. The specific samples included in this validation are:

Sample ID	Matrix	Collection Date	Lab SDG	Analyses (USEPA Method Number)
SD08-MW08-08	Water	11/16/06	F45339	VOC (8260B), SVOC (8270C), Pesticides (8081A), Metals (200.7/245.1)
SD08-MW08-08D	Water	11/16/06	F45339	VOC (8260B), SVOC (8270C), Pesticides (8081A), Metals (200.7/245.1)
Notes: SDG – Sample Delivery Group, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOC – Semi-volatile Organic Compounds				

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices promulgated in the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, October 1999) and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004) (NFGs).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis. The laboratory prepared and analyzed all samples within method specific holding times with the exception of the time from collection to extraction for the confirmation run for method 8270C. All analytes were non-detected and using professional judgment no qualification was required.

Blanks

There were two types of blanks associated with this sample; method and trip. Methylene chloride was detected in one of the trip blanks. This analyte was not detected in the other blanks or in the samples. Therefore, using professional judgment, no qualification of the data was required.

Surrogates

All surrogate results were within the laboratory's method specific QC limits with the following exceptions. The recovery for one of the SVOC surrogates was less than the associated QC limits in samples SD08-MW08-08 and SD08-MW08-08D. Since all the other SVOC surrogates were within the associated QC limits, no qualification of the data was required.

Matrix Spike/Matrix Spike Duplicates

The Matrix Spike and Matrix Spike Duplicate (MS/MSD) results associated with this data package were all within the required QC limits, with the following exceptions. The recoveries for benzidine, 2-chloroethyl vinyl ether, methoxychlor, 4,4'-DDE, and 4,4'-DDT were less than the associated QC limits. This may indicate a matrix effect and a low bias to the data. All results for these compounds should be considered estimated "J" or "UJ".

The recoveries for cis-1,3-dichloropropene, methylene bromide, and trans-1,4-dichloro-2-butene exceeded the associated QC limits. This may indicate a matrix effect and a high bias to the data. Since no positive results for these compounds were reported in the associated field samples, no qualification of the data was required.

The relative percent difference (RPD) results for 2-chloroethyl vinyl ether and endrin aldehyde exceeded the associated QC limits. This may indicate a matrix effect but since no positive results for these compounds in the associated field samples were reported, no qualification of the data was required.

Laboratory Control Samples

The Laboratory Control Sample (LCS) results associated with this data package were all within the required QC limits. No qualification of the data is required.

Project Specific Quality Assurance/Quality Control

There was one field duplicate sample (SD08-MW08-08D) collected as part of this sample delivery group. All results met the associated QC limits. No qualification of the data was required.

Compound Quantitation and Reporting Limits

All of the sample results were reported down to the laboratory method detection limits (MDLs) and none of the samples displayed elevated reporting limits (RLs) due to dilutions or matrix with the following exceptions. The RL for selenium was elevated due to matrix interference. No qualification of the data is required but the elevated RL should be considered when using any non-detects for decision making purposes.

Overall Assessment of Data

Overall, the data should all be suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria except as noted. All analyses were completed, and no data points were rejected due to QC failure. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier
SD08-MW08-08	2-Chloroethyl vinyl ether Benzidine 4,4'-DDE 4,4'-DDT Methoxychlor	UJ UJ UJ UJ UJ
SD08-MW08-08D	2-Chloroethyl vinyl ether Benzidine 4,4'-DDE 4,4'-DDT Methoxychlor	UJ UJ UJ UJ UJ

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on December 1, 2006. One aqueous sample and the associated quality control (QC) sample were taken from the refuse collection truck wash rack (SD-08) for analyses. All analyses were performed by Accutest Laboratories of Orlando, Florida. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Lab SDG	Analyses (USEPA Method Number)
SD08-MW08-07	Water	12/1/06	F45658 and F45658R	VOC (8260B), SVOC (8270C), Pesticides (8081A), Metals (6010B/7470A), TDS (160.1)
Trip Blank	Water	12/1/06	F45658	VOC (SW8260B)
Notes: SDG – Sample Delivery Group, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOC – Semi-volatile Organic Compounds, TDS – Total Dissolved Solids				

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices promulgated in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004), and in the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, October 1999) (NFGs).

Sample Handling and Holding Times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times except for TDS analysis which was analyzed seven days outside the holding time. Therefore, the results for TDS were qualified as estimated low biased (J-).

Blanks

All method blanks were properly batched with the corresponding field samples. Methylene chloride was detected in the trip blank at a concentration above the method detection limit (MDL), but below the reporting limit (RL). Although methylene chloride is a common laboratory contaminant, it was not detected in the subsequent sample. Therefore, qualification of the associated sample data was not required.

Blank Spike Sample (Laboratory Control Sample) / Surrogates

The Laboratory Control Sample (LCS) associated with method 8260B had a percent recovery (%R) less than the lower acceptance limit for allyl chloride. The affected compound was not detected (ND) in the sample and was qualified non-detected estimated (UJ).

Surrogates were injected into all field and organic QC samples for the organic analysis and the %R was calculated. In method 8260B, 1.2-dichloroethane-d4 and dibromofluoromethane recoveries were outside the upper acceptance limits for the sample which was confirmed by re-analysis. The surrogates were within acceptance limits on the 2nd run from which the results were taken. Therefore, qualification of the sample data was not required.

Matrix Spike (MS)/Matrix Spike Duplicates (MSDs)

The matrix spike recovery(s) for 1,1,2-trichloroethane, 1,2-dibromo-3-chloropropane, m-dichlorobenzene, toluene, m,p-xylene, and o-xylene were above quality control limits. The MS/MSD recovery for 2-chloroethyl vinyl ether was below quality control limits. The relative percent difference (RPD) for 1,1,2-trichloroethane, 1,2,3-trichlorobenzene, and naphthalene were above control limits. Method performance was cross referenced with the LCS, which met the QC requirements. Therefore, qualification of the sample data was not required.

Not enough sample volume was submitted for a pesticide MS/MSD analysis; the LCS was used to assess the precision and accuracy for the pesticide analysis, which met the QC requirements.

Project Specific Quality Assurance/Quality Control

No field duplicate samples or other project specific samples were submitted as part of this sampling event.

One trip blank was collected and analyzed for VOC compounds. As previously reported, methylene chloride was detected in the trip blank but not in the subsequent sample. Therefore using professional judgment no qualification was required.

Compound Quantitation and Reporting Limits

Barium, chromium, and lead were outside control limits for serial dilution. The percent difference was acceptable due to low initial sample concentration (<50x instrument detection limit). Therefore, the affected analytes needed no further qualification.

All other compounds were reported down to the specific reporting limit (RL) without dilutions.

Overall Assessment of Data

Overall, the data is suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria except where noted. Verification of the

pesticide results by a second analytical column was performed. The data is 100% complete.

Summary of Qualified Data		
Sample ID	**Parameter**	**Qualifier**
SD08-MW08-07	Allyl chloride TDS	5.0 UJ (µg/L) 4,070 J- (mg/L)
Notes: µg/L – micrograms per liter, mg/L – milligrams per liter		

Data Validation Report

This report contains the results of the review and validation of the specified data packages performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation is for three samples collected from site SD-08 at Holloman Air Force Base, New Mexico, in January 2007. The analysis was performed by Accutest Laboratories of Orlando, Florida. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Lab SDG	Analyses (USEPA Method Number)
SD08-MW-01	Water	1/26/07	F46838	TDS (160.1)
SD08-MW08-08		1/25/07	F46825	
S10-MW-01		1/25/07	F46825	
Notes: SDG – Sample Delivery Group, USEPA – U. S. Environmental Protection Agency, TDS – Total Dissolved Solids				

This data was validated against the laboratory's quality assurance (QA)/quality control (QC) limits using the guidelines and practices promulgated in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004), and in the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, October 1999) (NFGs).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding time.

Blanks

No TDS were detected in the method blanks.

Surrogates

There were no surrogate results associated with these sample batches. No qualification of the data was required.

Laboratory Control Sample

There were no Laboratory Control Sample (LCS) analyses associated with these sample batches. No qualification of the data was required.

Matrix Spike/Matrix Spike Duplicates

There were no Matrix Spike and Matrix Spike Duplicate (MS/MSD) samples associated with these sample batches. No qualification of the data was required.

Project Specific Quality Assurance/Quality Control

The laboratory duplicate results were within method specific QC limits.

Compound Quantitation and Reporting Limits

The sample results were reported down to the laboratory method detection limit (MDL) and the samples did not display elevated reporting limits (RLs) due to dilutions.

Overall Assessment of Data

Overall, the data is suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria. The data is 100% complete.

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation is for one sample collected from site SD-08 at Holloman Air Force Base, New Mexico, in December 2006. The analysis was performed by Accutest Laboratories of Orlando, Florida. The specific sample included in this validation was:

Sample ID	Matrix	Collection Date	Lab SDG	Analyses (USEPA Method Number)
SD08-MW08-05	Water	12/27/06	F46213	TDS (160.1)
Notes: SDG – Sample Delivery Group, USEPA – U. S. Environmental Protection Agency, TDS – Total Dissolved Solids				

This data was validated against the laboratory's quality assurance (QA)/quality control (QC) limits using the guidelines and practices promulgated in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004), and in the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, October 1999) (NFGs).

Sample Handling and Holding Times

The sample was properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding time.

Blanks

No positive results were reported in the method blank.

Surrogates

There were no surrogate results associated with this sample. No qualification of the data was required.

Laboratory Control Sample

There were no Laboratory Control Sample (LCS) analyses associated with this sample. No qualification of the data was required.

Matrix Spike/Matrix Spike Duplicates

There were no Matrix Spike and Matrix Spike Duplicate (MS/MSD) samples associated with this data package. No qualification of the data was required.

Project Specific Quality Assurance/Quality Control

The laboratory duplicate result was within method specific QC limits.

Compound Quantitation and Reporting Limits

The sample result was reported down to the laboratory method detection limit (MDL) and the sample did not display elevated reporting limits (RLs) due to dilutions or matrix.

Overall Assessment of Data

Overall, the data is suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria. The data is 100% complete.

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Michael J. D'Auben, Bhate Environmental Associates, Inc., Birmingham, Alabama.

Introduction

This data validation is for one sample collected at the SD-08 site at Holloman Air Force Base, New Mexico in October 2006. This sample was analyzed by Accutest Laboratories of Orlando, Florida. The specific sample included in this validation is:

Sample ID	Matrix	Collection Date	Lab SDG	Analyses (Method)
SD-08-SB24-3	Soil	10/27/06	F44851	Bulk Density (Dry Basis) (ASTM D2937-94M, Fractional Organic Carbon (ASTM D2974-87), Solids, Percent (USEPA 160.3M), Specific Gravity (ASTM 1429)
Notes: SDG – Sample Delivery Group, ASTM – American Society for Testing and Materials, USEPA – U.S. Environmental Protection Agency				

This data was validated against the laboratory's quality assurance (QA)/quality control (QC) limits using the guidelines and practices promulgated in the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, October 1999) and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004).

Sample Handling and Holding Times

The sample was properly preserved and transferred under chain-of-custody to the laboratory for analysis. The laboratory prepared and analyzed the sample within the holding times prescribed for each method.

Blanks

There was one type of blank associated with this sample; method blank. There were no positive results reported in the method blank in this data package. No qualification of the data is required.

Surrogates

There were no surrogate results associated with this sample. No qualification of the data was required.

Matrix Spike/Matrix Spike Duplicates

There were no Matrix Spike and Matrix Spike Duplicate (MS/MSD) samples associated with this data package. No qualification of the data is required.

Laboratory Control Samples

There were no Laboratory Control Sample (LCS) analyses associated with this data package. No qualification of the data is required.

Project Specific Quality Assurance/Quality Control

There were no field duplicate samples collected as part of this sample delivery group. No qualification of the data was required.

Compound Quantitation and Reporting Limits

All of the sample results were reported down to the laboratory method detection limits (MDLs) and the sample did not display elevated reporting limits (RLs) due to dilutions or matrix. No qualification of the data is required.

Overall Assessment of Data

Overall, the data should all be suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria. All analyses were completed, and no data points were rejected due to QC failure. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier
SD-08-SB24-3	All	None

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Michael J. D'Auben, Bhate Environmental Associates, Inc., Birmingham, Alabama.

Introduction

This data validation is for one sample collected at the SD-08 site at Holloman Air Force Base, New Mexico in October 2006. The sample was analyzed by Accutest Laboratories of Orlando, Florida. The specific sample included in this validation is:

Sample ID	Matrix	Collection Date	Lab SDG	Analyses (Method)
SD-08-SB24-8	Soil	10/27/06	F44882	Bulk Density (Dry Basis) (ASTM D2937-94M, Fractional Organic Carbon (ASTM D2974-87), Solids, Percent (USEPA 160.3M), Specific Gravity (ASTM 1429)
Notes: SDG – Sample Delivery Group, ASTM – American Society for Testing and Materials, USEPA – U.S. Environmental Protection Agency				

This data was validated against the laboratory's quality assurance (QA)/quality control (QC) limits using the guidelines and practices promulgated in the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, October 1999) and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004).

Sample Handling and Holding Times

The sample was properly preserved and transferred under chain-of-custody to the laboratory for analysis. The laboratory prepared and analyzed the sample within the holding times prescribed for each method.

Blanks

There was one type of blank associated with this sample; method blank. There were no positive results reported in the blank in this data package. No qualification of the data is required.

Surrogates

There were no surrogate results associated with this sample. No qualification of the data was required.

Matrix Spike/Matrix Spike Duplicates

There were no Matrix Spike and Matrix Spike Duplicate (MS/MSD) samples associated with this data package. No qualification of the data is required.

Laboratory Control Samples

There were no Laboratory Control Sample (LCS) analyses associated with this data package. No qualification of the data is required.

Project Specific Quality Assurance/Quality Control

There were no field duplicate samples collected as part of this sample delivery group. No qualification of the data was required.

Compound Quantitation and Reporting Limits

All of the sample results were reported down to the laboratory method detection limits (MDLs) and the sample did not display elevated reporting limits (RLs) due to dilutions or matrix. No qualification of the data is required.

Overall Assessment of Data

Overall, the data should all be suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria. All analyses were completed, and no data points were rejected due to QC failure. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier
SD-08-SB24-8	All	None

E-2

LTM Quarter 1 (Jan 2012, NationView)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on January 24-25, 2012. Three aqueous samples and associated trip blank were taken from site SD08 for long term monitoring. All analyses were performed by Gulf Coast Analytical, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses
MW-08-06	Water	1/24/12	VOCs (SW8260B), Anions (EPA 300), TAL Metals (dissolved & total) (SW6010/7470), TDS (SM2540C)
MW-08-08		1/25/12	
MW-08-04			
Trip Blank			VOCs (SW8060B)

This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008), the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

A low level detection of acetone was found in the trip blank. This common laboratory contaminant was not detected in the samples; therefore, no qualification was required.

The method 7470 method blank yielded a low level detection of mercury. This metal was not detected in the samples; therefore qualification was deemed unnecessary.

The total metals method blank yielded low level detections of calcium, magnesium and potassium. Since all sample concentrations for these parameters were significantly above the reporting limit; blank contamination was not a concern and no qualification was required.

The method blank for the anion analyses yielded a detection for chloride between the method detection limit (MDL) and reporting limit (RL). Since the sample chloride concentrations were far above the RL blank contamination was not an issue and the samples required no qualification.

Blank spike sample (laboratory control sample-LCS)/surrogates

The LCSD recovery for bromomethane was above QC limits. This compound was not detected in the samples and data was not adversely affected; therefore no qualification was required.

Matrix spike/matrix spike duplicates (MS/MSD)

The MS recovery for mercury and dissolved thallium were outside control limits. Precision and accuracy were determined by the associated LCS recoveries; which were in control. Therefore using professional judgment no qualification was necessary.

The matrix spike recoveries for both dissolved and total calcium, magnesium and sodium were outside control limits. These limits were not applicable since the target analyte concentration exceeded the spiked concentration by a factor of four or more. The associated LCS recoveries were within control and no qualification was required.

Project specific quality assurance/quality control

No field duplicate sample was submitted as part of this sampling event.

The laboratory duplicate relative percent difference (RPD) for chromium and iron were above control limits. Since chromium was not detected in the field sample used in the duplicate RPD analysis it was not taken into consideration. As for iron, due to its low duplicate and sample concentration the results did not adversely affect the sample data and required no qualification.

Compound quantitation and reporting limits

Where a dilution was required elevated reporting limits were reported.

Overall assessment of data

In the case where certain dissolved metals exceeded their total metal concentrations separate aliquots could be to blame.

All analyses were performed, and the data met the required QC criteria. The data is 100% complete.

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on January 25-26, 2012. Six aqueous samples and associated QC samples were taken from site SD08 for long term monitoring. All analyses were performed by Gulf Coast Analytical, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses
MW-08-05	Water	1/25/12	VOCs (SW8260B), Anions (EPA 300), TAL Metals (dissolved & total) (SW6010/7470), TDS (SM2540C)
MW-08-03			
MW-08-07		1/26/12	
MW-08-01			
MW-08-01A			
MW-08-02			

This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008), the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times with the following exception. The analyses of nitrate and nitrite for sample MW-08-05 were performed at a 5x dilution. Due to a low nitrate result the analyses was run at a 1x dilution outside hold time. These two parameters were qualified estimated, "J" or estimated non-detected, "UJ".

Blanks

A low level detection of acetone was found in the trip blank. This common laboratory contaminant was detected in samples MW-08-01 and MW-08-01A at a concentration less than 10x the blank and was qualified estimated, "J".

Associated with sample MW-08-02:
The total metals method blank yielded low level detections of aluminum, barium, magnesium and sodium. Since the sample concentrations were greater than 5x the blank concentration; blank contamination was not a concern and no qualification was required. The dissolved metals method blank yielded a low level detection of magnesium. This compound was well above the reporting limit (RL) in the sample. Therefore, qualification was deemed unnecessary.

Associated with all samples with the exception of MW-08-02:
The total metals method blank yielded low levels of calcium and magnesium. Additionally, the dissolved metals method blank yielded a low level of magnesium. Since these compounds were well above the RL no qualification was required. Sodium was detected above the RL in the total metals method blank. Since sodium results were greater than 10x the blank concentration no qualification was required.

Blank spike sample (laboratory control sample-LCS)/surrogates

The LCSD recovery for bromochloromethane was slightly above QC limits associated with all samples except MW-08-02. This compound was not detected in the samples and data was not adversely affected; therefore no qualification was required.

Matrix spike/matrix spike duplicates (MS/MSD)

The MS/MSD recoveries and/or relative percent difference (RPD) for multiple volatile compounds were outside control limits. Precision and accuracy were determined by the associated LCS recoveries; which were in control. Therefore using professional judgment no qualification was necessary.

The MS and/or MSD recoveries for both dissolved and total calcium and magnesium were outside control limits. These limits were not applicable since the target analyte concentration exceeded the spiked concentration by a factor of four or more. The associated LCS recoveries were within control and no qualification was required.

Project specific quality assurance/quality control

One field duplicate sample was submitted as part of this sampling event and the RPD for all compounds was within project defined limits.

The laboratory duplicate RPD, associated with sample MW-08-02, for mercury, copper, manganese and zinc were above control limits. Due to low duplicate and sample concentrations (less than 5x the RL) the RPD was not significant and these compounds did not require qualification.

Compound quantitation and reporting limits

Where a dilution was required, due to either matrix interference or to quantify the data, elevated reporting limits were reported.

Overall assessment of data

In the case where certain dissolved metals exceeded their total metal concentrations separate aliquots could be to blame.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
MW-08-01	Acetone	9.67 J
MW-08-01A	Acetone	10.4 J
MW-08-05	Nitrate Nitrite	0.787 J 0.059 UJ

*volatiles in µg/L/anions in mg/l

E-3

LTM Quarter 2 (Apr 2012, NationView)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on April 25, 2012. Eight aqueous samples, field duplicate and associated QC samples were taken from site SD08 for long term monitoring. Additionally, two samples were taken from SWMU183 and S10 to delineate the plume adjacent to site SD08. All analyses were performed by Gulf Coast Analytical, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses
MW-08-01	Water	4/25/12	VOCs (SW8260B), TAL Metals (dissolved & total) (SW6010B/7470A), TDS (SM2540C)
MW-08-01A			
MW-08-02			
MW-08-03			
MW-08-04			
MW-08-05			
MW-08-06			
MW-08-07			
MW-08-08			
S10-MW01			VOCs (SW8260B), Anions (EPA 300), TAL Metals (dissolved & total) (SW6010B/7470A), TDS (SM2540C)
SWMU183-MW03			

This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008), the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times with the following exception. The analyses of nitrite for sample S10-MW01 and nitrate and nitrite for sample SWMU183-MW03 were performed outside hold time. These two parameters were qualified estimated, "J" or estimated non-detected, "UJ".

Blanks

Low level detections of acetone were found in both trip blanks. This common laboratory contaminant, when detected at a concentration less than 10x the blank concentration, was qualified estimated, "J".

The total metals method blank yielded low level detections of mercury, calcium, magnesium, manganese, potassium, silver and sodium. The dissolved metals method blank yielded low level detections of mercury, aluminum, manganese, sodium and thallium. Those sample concentrations that were less than 5x the blank concentration were considered laboratory artifacts and qualified as estimated.

Blank spike sample (laboratory control sample-LCS)/surrogates

The LCS and LCSD recoveries for all compounds were within control limits.

Matrix spike/matrix spike duplicates (MS/MSD)

The MSD recovery for dissolved thallium was slightly below QC limits. The MS recovery, relative percent difference (RPD) and LCS recovery were all within control limits. Using professional judgment, no qualification was required.

The MS and/or MSD recoveries for both dissolved and total calcium, sodium and magnesium were outside control limits. These limits were not applicable since the target analyte concentration exceeded the spiked concentration by a factor of four or more. The associated LCS recoveries were within control and no qualification was required.

Project specific quality assurance/quality control

One field duplicate sample was submitted as part of this sampling event and the RPD for acetone and dissolved silver were outside control limits. These compounds were qualified estimated, “J”, in both sample and duplicate.

The continuing calibration verification (CCV) percent drift (%D) for n-propylbenzene and hexachlorobutadiene was slightly above QC limits. These compounds were not detected in any sample; therefore sample integrity was not affected and no qualification was necessary.

Compound quantitation and reporting limits

Where a dilution was required, due to either matrix interference or to quantify the data, elevated reporting limits were reported.

Overall assessment of data

In the case where certain dissolved metals exceeded their total metal concentrations separate aliquots could be to blame.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
MW-08-01	Acetone Total/Dissolved Mercury Total Silver Dissolved Silver	71.7 J 0.00010 J/0.00011 J 0.0056 J 0.0034 J
MW-08-01A	Acetone Total Mercury Total/Dissolved Silver	49.2 J 0.00009 J 0.0058 J/0.0060 J
MW-08-02	Acetone Total/Dissolved Mercury Total Silver	2.60 J 0.00011 J/0.00011 J 0.0047 J
MW-08-03	Acetone Total/Dissolved Mercury Total Silver	2.25 J 0.00013 J/0.00013 J 0.0049 J
MW-08-04	Acetone Total/Dissolved Mercury Total Manganese Total Silver	1.23 J 0.00010 J/0.00012 J 0.0028 J 0.0041 J

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
MW-08-05	Acetone Total/Dissolved Mercury Total Silver	0.759 J 0.00014 J/0.00012 J 0.0036 J
MW-08-06	Acetone Total/Dissolved Mercury Total Silver	1.51 J 0.00011 J/0.00009 J 0.0042 J
MW-08-07	Acetone Total/Dissolved Mercury Total Silver	1.70 J 0.00008 J/0.00012 J 0.0030 J
MW-08-08	Acetone Total/Dissolved Mercury Total Silver	1.01 J 0.00010 J/0.00011 J 0.0043 J
SW10-MW01	Acetone Nitrite	0.587 J 2.95 UJ
SWMU183-MW03	Acetone Total Mercury Total Silver Nitrite Nitrate	1.62 J 0.00014 J 0.0038 J 0.590 UJ 64.2 J

*volatiles in µg/L/metals & anions in mg/l

E-4

LTM Quarter 3 (Jul 2012, NationView)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on July 23-24, 2012. Eight aqueous samples, a field duplicate and associated QC samples were taken from site SD08 for long term monitoring. Additionally, three samples were taken from SWMU183 and S10 to delineate the plume adjacent to site SD08. All analyses were performed by Gulf Coast Analytical, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Lab Package	Collection Date	Analyses
MW-08-01	Water	212072505	7/23/12	VOCs (SW8260B), Anions (EPA 300), TAL Metals (dissolved & total) (SW6010B/7470A), TDS (SM2540C)
MW-08-02		212072503		
MW-08-03				
MW-08-04				
MW-08-05		212072506	7/24/12	
MW-08-06		212072410	7/23/12	
MW-08-07		212072505		
MW-08-07-A				
MW-08-08		212072506	7/24/12	
SWMU183-MW03				
S10-MW01				
S10-MW06				VOCs (SW8260B)

This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008), the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in any trip blank.

The total metals method blank, associated with packages 212072505, 212072503 and 212072506, yielded low level detections of aluminum, barium, calcium and vanadium. The dissolved metals method blank yielded low level detections of aluminum, beryllium, cadmium, chromium, potassium and sodium; with calcium above the reporting limit. For sample MW-08-06 the total metals method blank yielded low levels of cadmium, chromium, magnesium, potassium and sodium. The dissolved metals method blank yielded low levels of beryllium, cadmium, chromium and cobalt; with calcium detected above the reporting limit. Those sample concentrations that

were less than 5x the blank concentration were considered laboratory artifacts and qualified "U" as not detected above the reported sample quantitation limit.

Blank spike sample (laboratory control sample-LCS)/surrogates

The LCS recovery for n-butylbenzene was above control limits for lab package 212072506. This compound was not detected in the associated samples therefore no qualification was necessary.

Matrix spike/matrix spike duplicates (MS/MSD)

The MSD recovery for isopropylbenzene, associated with sample MW-08-06, was slightly below control limits. Since the LCS, MS and relative percent difference (RPD) were within control limits; using professional judgment no qualification was required.

For lab packages 212072505, 212072503 and 212072506 the MS/MSD recoveries for dissolved thallium were below QC limits. For sample MW-08-06 the MSD recoveries for both dissolved and total potassium and the MS/MSD recoveries for nitrite were outside control limits. Precision and accuracy were cross reference with the LCS recoveries, which were within control limits. Using professional judgment, no qualification was required.

The MS and MSD recoveries, associated with all samples, for both dissolved and total calcium, sodium and magnesium were outside control limits. These limits were not applicable since the target analyte concentration exceeded the spiked concentration by a factor of four or more. The associated LCS recoveries were within control and no qualification was required.

Project specific quality assurance/quality control

One field duplicate sample was submitted as part of this sampling event and the RPD for 1,2-dichloroethane and total iron were outside control limits. These compounds were qualified estimated, "J", in both sample and duplicate.

Compound quantitation and reporting limits

Where a dilution was required, due to either matrix interference or to quantify the data, elevated reporting limits were reported.

Overall assessment of data

In the case where certain dissolved metals exceeded their total metal concentrations separate aliquots could be to blame.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*/Reason
MW-08-01	Barium (total)	.0098 U MB
MW-08-02	Aluminum (total) Beryllium (dissolved) Chromium (dissolved)	0.048 U MB 0.00086 U MB 0.0014 U MB
MW-08-03	Aluminum (total) Barium (total)	0.034 U MB 0.0028 U MB
MW-08-04	Barium (total) Aluminum (Dissolved) Cadmium (dissolved)	0.0094 U MB 0.034 U MB 0.00090 U MB
MW-08-06	Cobalt (dissolved)	0.00077 U MB
MW-08-07	1,2-Dichloroethane Iron (total)	81.5 J Dup RPD 0.041 J Dup RPD
MW-08-07-A	1,2-Dichloroethane Iron (total) Aluminum (total) Aluminum (dissolved) Chromium (dissolved)	26.0 J Dup RPD 0.064 J Dup RPD 0.028 U MB 0.039 U MB 0.00040 U MB
MW-08-08	Barium (total) Cadmium (dissolved)	0.0073 U MB 0.00033 U MB
SWMU183-MW03	Aluminum (total) Barium (total) Cadmium (dissolved)	0.18 U MB 0.011 U MB 0.0012 U MB
S10-MW01	Barium (total) Cadmium (dissolved)	0.0046 U MB 0.0011 U MB

*volatiles in µg/L/metals in mg/l

E-5

LTM Quarter 4 (Oct 2012, NationView)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on October 22-24, 2012. Eight aqueous samples, a field duplicate and associated QC samples were taken from site SD08 for long term monitoring. Additionally, four samples were taken from SWMU183 and S10 to delineate the plume adjacent to site SD08. All analyses were performed by Gulf Coast Analytical, Inc., Baton Rouge, LA. The specific samples included in this validation were:

<table>
<tr><th>Sample ID</th><th>Matrix</th><th>Lab Package</th><th>Collection Date</th><th>Analyses</th></tr>
<tr><td>MW-08-01</td><td rowspan="14">Water</td><td>212102501</td><td rowspan="8">10/23/12</td><td rowspan="14">VOCs (SW8260B), Anions (EPA 300), Dissolved TAL Metals (SW6010B), Total Mercury (SW7470A), TDS (SM2540C)</td></tr>
<tr><td>MW-08-02</td><td rowspan="3">212102413</td></tr>
<tr><td>MW-08-03</td></tr>
<tr><td>MW-08-04</td></tr>
<tr><td>MW-08-05</td><td>212102501</td></tr>
<tr><td>MW-08-06</td><td>212102413</td></tr>
<tr><td>MW-08-07</td><td rowspan="2">212102501</td></tr>
<tr><td>MW-08-07-A</td></tr>
<tr><td>MW-08-08</td><td>212102413</td><td>10/22/12</td></tr>
<tr><td>SWMU183-MW03</td><td rowspan="3">212102501</td><td>10/23/12</td></tr>
<tr><td>S10-MW01</td><td rowspan="2">10/24/12</td></tr>
<tr><td>S10-MW01-A</td></tr>
<tr><td>S10-MW06</td><td>212102413</td><td>10/23/12</td></tr>
</table>

This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008), the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times with the following exception. Sample MW-08-08 was analyzed outside the requisite 48 hour hold time for nitrate and nitrite along with the nitrite analysis of samples MW-08-03 and MW-08-06. These compounds were considered estimated and qualified as such.

Blanks

Low levels of acetone were detected in the trip blanks associated with lab package 212102501. Additionally, low levels of acetone and chloromethane were reported in the trip blanks and method blank associated with package 212102413. When a positive result occurred it was reported at a concentration less than 10x the blank concentration for acetone and <5x the concentration for chloromethane. This indicated the samples were affected by blank contamination and qualified as non detected (U) and raised to the reporting limit.

The metals method blank, associated with package 212102501, yielded low level detections of cadmium, calcium, cobalt, copper, magnesium, nickel, potassium and vanadium. The metals method blank, associated with package 212102413, yielded low level detections of beryllium, chromium and cobalt. Those sample concentrations that were less than 5x the blank concentration were considered laboratory artifacts and qualified as not detected, “U”, above the reported sample quantitation limit.

Blank spike sample (laboratory control sample-LCS)/surrogates

The LCS recoveries of bromochloromethane and dibromochloromethane were above QC limits associated with lab package 212102413. Neither compound was detected in the associated samples; no qualification was required.

Matrix spike/matrix spike duplicates (MS/MSD)

For lab package 212102501, the MS and/or MSD recoveries for calcium, magnesium, potassium, thallium, sodium, nitrite and fluoride were outside control limits. Control limits were not applicable for calcium, magnesium and sodium since the target analyte concentration exceeded the spiked concentration by a factor of four or more. The matrix spike and relative percent difference (RPD) for potassium were within control limits. Nitrite spike recoveries were above control limits but nitrite was not detected in any sample. Thallium and fluoride yielded low recoveries of the MS & MSD; thallium was not detected in any sample, fluoride did report detections. Precision and accuracy were cross reference with the LCS recoveries, which were within control limits. Using professional judgment, no qualification was required with the exception of fluoride which was flagged as estimated, “J” due to possible matrix interference.

Lab package 212102413 yielded MS and/or MSD recoveries for 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 4-methyl-2-pentanone and fluoride above QC limits. Precision and accuracy were cross reference with the LCS recoveries, which were within control limits. Using professional judgment, no qualification was required.

Lab package 212102413 yielded MS and/or MSD recoveries for sodium, cadmium, calcium, cobalt, magnesium, nickel, potassium, thallium and mercury outside control limits. Control limits were not applicable for sodium, calcium and magnesium since the target analyte concentration exceeded the spiked concentration by a factor of four or more. The remaining metals were affected by matrix interference, as confirmed by the post digestate spike analysis, and those positive results were qualified estimated, “J”. The exception being cobalt; since it was influenced by blank contamination and considered a non detect where the sample concentration was <5x the blank concentration.

Project specific quality assurance/quality control

The RPD between sample MW-08-07 and its duplicate was outside control limits for copper and mercury. Only mercury was qualified estimated, “J”, in both sample and duplicate since copper was affected by blank contamination and considered non-detected.

Compound quantitation and reporting limits

Where a dilution was required, due to either matrix interference or to quantify the data, elevated reporting limits were reported.

Overall assessment of data

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*/Reason
MW-08-01	Acetone Copper Vanadium Fluoride	5.0 U (6.87 J) 0.010 U (0.0038 J) 0.020 U (0.0035 J) 3.38 J
MW-08-02	Acetone Chloromethane Cobalt Potassium Thallium Beryllium Chromium	5.0 U (1.56 j) 5.0 U (2.41 J) 0.0035 J 4.32 J 0.0044 J 0.0050 U (0.00071 J) 0.010 U (0.0074 J)
MW-08-03	Acetone Chloromethane Nitrite Cobalt Potassium Beryllium	5.0 U (1.36 J) 5.0 U (2.28 J) 0.750 UJ 0.010 U (0.00060 J) 29.1 J 0.0050 U (0.00026 J)
MW-08-04	Chloromethane Cobalt Potassium Thallium Beryllium Chromium	5.0 U (1.01 J) 0.010 U (0.00088 J) 20.5 J 0.0056 J 0.0050 U (0.00042 J) 0.010 U (0.011)
MW-08-05	Cobalt Copper Fluoride	0.010 U (0.0015 J) 0.010 U (0.0021 J) 4.19 J
MW-08-06	Acetone Chloromethane Nitrite Cobalt Potassium Thallium Beryllium	5.0 U (1.47 J) 5.0 U (2.61 J) 0.750 UJ 0.010 U (0.00069 J) 31.9 J 0.0037 J 0.0050 U (0.00027 J)
MW-08-07	Acetone Copper Mercury Fluoride	5.0 U (1.77 J) 0.010 U (0.0023 J) 0.00013 J 2.48 J
MW-08-07-A	Acetone Copper Mercury Fluoride	5.0 U (1.67 J) 0.010 U (0.0014 J) 0.00019 J 2.94 J
MW-08-08	Acetone Chloromethane Nitrate Nitrite Potassium	5.0 U (1.23 J) 5.0 U (1.90 J) 24.4 J 0.750 UJ 53.5 J
SWMU183-MW03	Acetone Fluoride Cobalt Copper	5.0 U (1.18 J) 1.44 J 0.010 U (0.0015 J) 0.010 U (0.0037 J)
S10-MW01	Acetone Cobalt Copper Fluoride	5.0 U (1.14 J) 0.010 U (0.0019 J) 0.010 U (0.0078 J) 1.83 J
S10-MW01-A	Cobalt Copper Fluoride	0.010 U (0.0017 J) 0.010 U (0.0075 J) 1.69 J
S10-MW06	Acetone Chloromethane Potassium Beryllium	5.0 U (1.21 J) 5.0 U (1.06 J) 43.5 J 0.0050 U (0.00017 J)

*volatiles in µg/L/metals & anions in mg/l

E-6

LTM Quarter 5 (Jan 2013, NationView)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on January 21-22, 2013. Eight aqueous samples, a field duplicate and associated QC samples were taken from site SD08 for long term monitoring. Additionally, four samples were taken from SWMU183 and S10 to delineate the plume adjacent to site SD08. All analyses were performed by Gulf Coast Analytical, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Lab Package	Collection Date	Analyses
MW-08-01	Water	213012314	1/22/13	VOCs (SW8260B), Anions (EPA 300), Dissolved TAL Metals (SW6010B), Total Mercury (SW7470A), TDS (SM2540C)
MW-08-02				
MW-08-03			1/21/13	
MW-08-04		213012206		
MW-08-05				
MW-08-06		213012314		
MW-08-07			1/22/13	
MW-08-07-A				
MW-08-08		213012206	1/21/13	
SWMU183-MW03				
S10-MW01		213012314	1/22/13	
S10-MW01-A				
S10-MW06			1/21/13	

This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008), the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

A low level detection of acetone was detected in the trip blank associated with samples S10-MW01, S10-MW01-A, MW-08-02 and MW-08-01. When a positive result occurred it was reported at a concentration less than 10x the blank concentration. This indicated the samples were affected by this common laboratory contaminant and qualified as non detected (U) and raised to the reporting limit.

The metals method blank, associated with all samples, yielded low level detections of total mercury and dissolved cadmium. Those sample concentrations that were less than 5x the blank concentration were considered laboratory artifacts and qualified as not detected, "U", above the reported sample quantitation limit.

Blank spike sample (laboratory control sample-LCS)/surrogates

The LCS recoveries for all compounds were within QC limits for all analyses.

Matrix spike/matrix spike duplicates (MS/MSD)

For lab package 213012314, the MS/MSD relative percent difference (RPD) for hexachlorobutadiene, n-butylbenzene, dissolved mercury, arsenic, calcium, magnesium, selenium, thallium and sodium were outside control limits. The lab package 213012206 yielded MS/MSD recoveries and/or RPDs for dissolved mercury, total mercury, arsenic, calcium, magnesium, selenium, thallium and sodium outside QC limits. Control limits were not applicable for calcium, magnesium and sodium (in both lab packages) since the target analyte concentration exceeded the spiked concentration by a factor of four or more. Precision and accuracy were cross reference with the LCS recoveries, which were within control limits. Using professional judgment, no qualification was required.

Project specific quality assurance/quality control

Two field duplicates were collected with these lab packages. The RPD between sample MW-08-07 and its duplicate was outside control limits for antimony, cobalt, vanadium and acetone. The RPD for vanadium was also outside project defined control limits in sample S10-MW01 and its duplicate. These compounds were qualified as estimated, “J”.

Compound quantitation and reporting limits

Where a dilution was required, due to either matrix interference or to quantify the data, elevated reporting limits were reported.

Overall assessment of data

Multiple sample containers for metals required additional nitric acid to lower the pH below 2. Since this was performed at sample receiving the samples were not adversely affected and required no qualification. Additionally, two trip blanks contained excess headspace, since one blank reported no positive results and the other reported a low level of acetone no additional qualification of the sample data was warranted based on this information alone.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*/Reason
MW-08-01	Acetone	5.0 U
MW-08-02	Acetone Total Mercury	5.0 U 0.00020 U
MW-08-03	Total Mercury	0.00020 U
MW-08-05	Total Mercury	0.00020 U
MW-08-07	Antimony Cobalt Vanadium Acetone Total Mercury	0.038 J 0.0051 J 0.011 J 1.62 J 0.00020 U
MW-08-07-A	Antimony Cobalt Vanadium Acetone	0.023 J 0.0034 J 0.023 J 1.08 J
MW-08-08	Total Mercury	0.00020 U
SWMU183-MW03	Total Mercury	0.00020 U
S10-MW01	Vanadium	0.055 J
S10-MW01-A	Acetone Vanadium Total Mercury	5.0 U 0.076 J 0.00020 U

*volatiles in µg/L/metals in mg/l

E-7

LTM Quarter 6 (Apr 2013, NationView)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on April 8-9, 2013. Eight aqueous samples, two field duplicates and associated QC samples were taken from site SD08 for long term monitoring. Additionally, four samples were taken from SWMU183 and S10 to delineate the plume adjacent to site SD08. All analyses were performed by Gulf Coast Analytical, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Lab Package	Collection Date	Analyses
MW-08-01	Water	213041006	4/8/13	VOCs (SW8260B), Nitrate (EPA 300), Dissolved TAL Metals (SW6010B), Total Mercury (SW7470A), TDS (SM2540C)
MW-08-01-A				
MW-08-02		213040904		
MW-08-02-A				
MW-08-03		213041006		
MW-08-04				
MW-08-05			4/9/13	
MW-08-06			4/8/13	
MW-08-07				
MW-08-08				
SWMU183-MW03			4/9/13	
S10-MW01				
S10-MW02				
S10-MW06				

This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008), the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blanks or method blanks of all analyses.

Blank spike sample (laboratory control sample-LCS)/surrogates

The LCS recovery for mercury (lab package 213041006) was slightly above QC limits. This compound was not detected in any associated sample and required no qualification.

Matrix spike/matrix spike duplicates (MS/MSD)

For lab package 213040904, MS and/or MSD recoveries for calcium, n-propylbenzene and 1,2-dibromo-3-chloropropane were outside control limits. The lab package 213041006 yielded MS and/or MSD recoveries for n-propylbenzene, 1,2-dibromo-3-chloropropane, dissolved mercury, arsenic, calcium, copper, magnesium, potassium, selenium, silver, sodium and total mercury, outside QC limits. Control limits were not applicable for calcium (both packages), magnesium

and sodium (package 213041006) since the target analyte concentration exceeded the spiked concentration by a factor of four or more. Precision and accuracy were cross reference with the LCS recoveries; which were within control limits. The exception to the aforementioned was dissolved mercury; it was not detected in any associated sample. Therefore, using professional judgment, no qualification was required.

Project specific quality assurance/quality control

Two field duplicates were collected with these lab packages. The relative percent difference (RPD) between sample MW-08-01 and its duplicate was outside control limits for TDS, copper and acetone. These compounds were qualified as estimated, “J”.

Compound quantitation and reporting limits

Where a dilution was required, due to either matrix interference or to quantify the data, elevated reporting limits were reported.

Overall assessment of data

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*/Reason
MW-08-01	Copper Acetone TDS	0.0051 J 3.17 J 10000 J
MW-08-01-A	Copper Acetone TDS	0.0085 J 6.52 J 24400 J

*volatiles in μg/L/metals & TDS in mg/l

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on March 26, 2013. Four soil samples, field duplicate and associated QC samples were taken from site SD08 for source delineation. All analyses were performed by Accutest Laboratories, Inc., Orlando, FL. The specific samples included in this validation were:

Sample ID	Matrix	Lab Package	Collection Date	Analyses
SD08-MW10-SB-05'	Soil	FA3075	3/26/13	VOCs (SW8260B), and TAL Metals (SW6010B/SW7471B)
SD08-MW10-SB-09'				
SD08-MW11-SB-05'		FA3118		
SD08-MW11-SB-09'				
SD08-MW11-SB-09'A				

This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008), the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in any analytical blank.

Blank spike sample (laboratory control sample-LCS)/surrogates

The LCS recovery for dibromochloromethane was reported above QC limits in lab package FA3118. This compound was not detected in any associated sample and required no qualification.

All surrogate recoveries were within quality control limits.

Matrix spike/matrix spike duplicates (MS/MSD)

-For lab package FA3118, the MS and/or MSD recoveries for n-butylbenzene, ethylbenzene, hexachlorobutadiene, antimony, cadmium, calcium, iron, magnesium, manganese, silver and thallium were outside control limits. Control limits were not applicable for calcium since the target analyte concentration exceeded the spiked concentration by a factor of four or more.
-For lab package FA3075, multiple metals yielded MS/MSD recoveries and/or relative percent difference (RPD), along with post digestate spike recoveries, outside control limits. The quality control sample used for this spike analysis was from another lot. Precision and accuracy were cross reference with all associated LCS recoveries; which were within control limits. Using professional judgment, no qualification was required.

Project specific quality assurance/quality control

One field duplicate pair was collected with this subsurface soil event. The RPD was outside control limits for aluminum, beryllium, chromium, nickel and potassium. These compounds were qualified as estimated, “J”.

Compound quantitation and reporting limits

Where a dilution was required, due to either matrix interference or to quantify the data, elevated reporting limits were reported.

Overall assessment of data

For lab package FA3118, the serial dilution percent difference (%D) for mercury, arsenic, beryllium, calcium, chromium, copper, lead, magnesium, nickel and zinc was above QC limits. For all samples in this package, the calcium, magnesium and nickel results were >50x method detection limit (MDL). For lab package FA3075, the %Ds for mercury, aluminum, antimony, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, manganese, nickel, potassium, silver, vanadium and zinc were reported outside QC limits. The aluminum, barium, calcium, cobalt, iron, manganese, nickel, potassium and vanadium results were >50x MDL in both samples. Due to possible matrix interference, these metals were qualified estimated, “J”.

For the metals analysis, the RPD between the sample and lab duplicate was outside control limits for calcium, lead and zinc in lab package FA3118. Sample non-homogeneity was probable and due to this fact these metals were qualified estimated, “J”. The metals lab duplicate utilized for package FA3075 was from another batch/lot and precision and accuracy were determined by the laboratory control sample results; which were in control. Therefore, no qualification of lab duplicate data was required of package FA3075.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*/Reason
SD08-MW10-SB-05’	Aluminum	5560 J
	Barium	47.4 J
	Calcium	94800 J
	Cobalt	1.6 J
	Iron	4170 J
	Manganese	68 J
	Nickel	3.7 J
	Potassium	2160 J
	Vanadium	9.2 J
SD08-MW10-SB-09’	Aluminum	3980 J
	Barium	45.1 J
	Calcium	123000 J
	Cobalt	1.2 J
	Iron	3060 J
	Manganese	44.3 J
	Nickel	2.7 J
	Potassium	1080 J
	Vanadium	8.6 J
SD08-MW11-SB05’	Calcium	143000 J
	Lead	4.0 J
	Zinc	9.6 J
	Magnesium	1400 J
	Nickel	1.9 J

Summary of Qualified Data

Sample ID	Parameter	Qualifier*/Reason
SD08-MW11-SB-09’	Calcium	152000 J
	Lead	8.9 J
	Zinc	31.2 J
	Magnesium	10300 J
	Aluminum	7010 J
	Beryllium	0.56 J
	Chromium	10.7 J
	Nickel	9.1 J
	Potassium	1820 J
SD08-MW11-SB-09’A	Calcium	135000 J
	Lead	7.7 J
	Zinc	23.6 J
	Magnesium	7530 J
	Aluminum	4000 J
	Beryllium	0.37 J
	Chromium	7.4 J
	Nickel	6.1 J
	Potassium	1170 J

*in mg/kg

E-8

LTM Quarter 7 (July 2013, NationView)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on July 22-31, 2013. Sixteen aqueous samples, two field duplicates and associated QC samples were taken from site SD08 and surroundings for long term monitoring and to delineate the plume adjacent to site SD08. All analyses were performed by Gulf Coast Analytical, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Lab Package	Collection Date	Analyses
MW-08-01	Water	213073002	7/29/13	VOCs (SW8260B), Nitrate (EPA 300), Dissolved TAL Metals (SW6010B), Total Mercury (SW7470A), TDS (SM2540C)
MW-08-02				
MW-08-03				
MW-08-04		213072407	7/23/13	
MW-08-05				
MW-08-06		213072319	7/22/13	
MW-08-07		213073002	7/29/13	
MW-08-08		213072407	7/23/13	
SWMU183-MW03		213073002	7/29/13	
S10-MW01		213072407	7/23/13	
S10-MW01-A				
S10-MW02		213080115	7/31/13	
S10-MW06		213072319	7/22/13	
S10-MW06-A				
SD08-MW10		213080115	7/31/13	
SD08-MW11				
SD08-MW12		213072319	7/22/13	
SD08-MW13		213080115	7/31/13	

This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008), the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

The trip blank associated with samples S10-MW06, S10-MW06-A, SD08-MW12 and MW-08-06 reported a low level detection of acetone. This compound was not detected in the above mentioned samples and required on qualification.

The method blanks, associated with lab packages 213072407 and 213073002, yielded low level detections of calcium and zinc. When a positive result was reported it was well above 5x the blank concentration and required no qualification.

The method blank, associated with samples in package 213080115, yielded a low level detection of mercury. When detected in the sample the concentrations were less than 5x the blank concentration and qualified estimated, “J”.

Blank spike sample (laboratory control sample-LCS)/surrogate

The LCS and/or LCS duplicate recoveries for 2-hexanone, 4-methyl-2-pentanone and styrene (lab package 213072407) were above QC limits. These compounds were not detected in any associated sample and required no qualification. The LCS and/or relative percent difference (RPD) for bromomethane and methyl iodide were outside QC limits (lab package 213073002). These samples were qualified estimated non-detected, “UJ” in the associated samples. Finally, the LCS/LCSD recoveries of bromochloromethane and 1,2-dibromo-3-chloropropane (lab package 213080115) were slightly above QC limits. These compounds were not detected in any associated sample and required no qualification.

Matrix spike/matrix spike duplicates (MS/MSD)

For lab package 213072407, the MS/MSD recoveries for mercury, calcium, magnesium and sodium were outside control limits. Control limits were not applicable for all compounds since the target analyte concentration exceeded the spiked concentration by a factor of four or more. The lab package 213072319 yielded MS and/or MSD recoveries for 2-hexanone, 1,2-dibromo-3-chloropropane, 4-methyl-2-pentanone, n-butylbenzene, n-propylbenzene, sec-butylbenzene, calcium, sodium and magnesium outside QC limits. Control limits were not applicable for calcium, sodium and magnesium since the target analyte concentration exceeded the spiked concentration by a factor of four or more. Lab package 213073002 yielded the MS/MSD recovery and/or RPD for mercury, sodium, potassium, calcium and magnesium outside control limits. Control limits were not applicable for calcium, sodium and magnesium since the target analyte concentration exceeded the spiked concentration by a factor of four or more. The MS/MSD recoveries of mercury, in lab package 213080115, were outside QC limits. Precision and accuracy were cross reference with the LCS recoveries; which were within control limits. Therefore, no compound warranted qualification based on matrix spike discrepancies.

Project specific quality assurance/quality control

The relative percent difference (RPD) between sample S10-MW01 and its field duplicate was outside control limits for 1,2-dichloropropane and trichloroethene. These compounds were qualified as estimated, “J”.

Compound quantitation and reporting limits

Where a dilution was required, due to either matrix interference or to quantify the data, elevated reporting limits were reported.

Overall assessment of data

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*/Reason
S10-MW01	1,2-Dichloropropane Trichloroethene	0.269 J 0.443 J
S10-MW01-A	1,2-Dichloropropane Trichloroethene	0.456 J 2.38 J
MW08-03	Bromomethane Methyl iodide	0.427 UJ 0.084 UJ
MW08-01	Bromomethane Methyl iodide	0.427 UJ 0.084 UJ
MW08-02	Bromomethane Methyl iodide	0.427 UJ 0.084 UJ
MW08-07	Bromomethane Methyl iodide	0.427 UJ 0.084 UJ
SWMU183-MW03	Bromomethane Methyl iodide	0.427 UJ 0.084 UJ
SD08-MW13	Mercury (dissolved) Mercury (total)	0.000091 J 0.00011 J
SD08-MW11	Mercury (total)	0.000097 J
SD08-MW10	Mercury (dissolved) Mercury (total)	0.00010 J 0.00010 J
S10-MW02	Mercury (dissolved) Mercury (total)	0.000096 J 0.00012 J

*volatiles in µg/L/metals in mg/l

E-9

LTM Quarter 8 (Nov 2013, NationView)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on November 4-7, 2013. Sixteen aqueous samples, two field duplicates and associated QC samples were taken from site SD08 and surroundings for long term monitoring and to delineate the plume adjacent to site SD08. All analyses were performed by Gulf Coast Analytical, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Lab Package	Collection Date	Analyses
MW-08-01	Water	213110809	11/7/13	VOCs (SW8260B), Nitrate (EPA 300), Dissolved TAL Metals (SW6010B), Total Mercury (SW7470A), TDS (SM2540C)
MW-08-01A				
MW-08-02			11/6/13	
MW-08-03			11/7/13	
MW-08-04		213110611	11/5/13	
MW-08-05				
MW-08-06				
MW-08-07		213110809	11/6/13	
MW-08-08		213110709		
SWMU183-MW03		213110709	11/5/13	
S10-MW01		213110611		
S10-MW02		213110709	11/6/13	
S10-MW6		213110611	11/4/13	
SD08-MW10		213110709	11/6/13	
SD08-MW11				
SD08-MW12		213110611	11/4/13	
SD08-MW13				
SD08-MW13A				

This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008), the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times with the following exception.

The nitrate analysis of samples S10-MW6, SD08-MW13, SD08-MW13A, SD08-MW12 and SWMU183-MW03 were analyzed outside the requisite 48 hours and qualified estimated, "J".

Blanks

The trip blanks associated with all samples reported low level detections of methylene chloride. This compound was not detected in the associated samples and required on qualification.

The method blanks, associated with lab package 213110611, yielded a detection of sodium. Since any positive result was reported well above the blank concentration the samples were not affected by blank contamination and required no qualification.

The method blank, associated with package 213110709, yielded a low level detection of manganese. Like sodium above, the reported sample results were well above the blank concentration and required no qualification.

The method blank, associated with package 213110809, yielded detections of arsenic and silver. Samples MW-08-02, MW-08-03 and MW-08-01A required qualification (see table below).

Blank spike sample (laboratory control sample-LCS)/surrogate

The LCS and/or LCS duplicate recoveries for bromochloromethane and MTBE (lab package 213110611) were above QC limits. These compounds were not detected in any associated sample and required no qualification

Matrix spike/matrix spike duplicates (MS/MSD)

For lab package 213110611, the MS/MSD recoveries and/or relative percent difference (RPD) for acetone, bromochloromethane, naphthalene, MTBE, trans-1,4-dichloro-2-butene, cis-1,2-dichloroethene, dissolved and total mercury, arsenic, barium, calcium, lead, magnesium, silver, sodium and zinc were outside control limits. Precision and accuracy were cross reference with the LCS recoveries; which were either within control limits or the compound was not detected in the samples. Therefore, no compound warranted qualification based on matrix spike discrepancies.

The lab package 213110709 yielded MS/MSD recoveries and/or RPDs for antimony, barium, calcium, lead, manganese, selenium, silver, thallium, sodium and magnesium outside QC limits. Control limits were not applicable for sodium and magnesium since the target analyte concentration exceeded the spiked concentration by a factor of four or more. Finally, lab package 213110809 yielded the MS/MSD recovery and/or RPD for barium, calcium, lead, magnesium, silver and sodium outside control limits. Control limits were not applicable for calcium, sodium and magnesium since the target analyte concentration exceeded the spiked concentration by a factor of four or more. Precision and accuracy were cross reference with the LCS recoveries; which were within control limits. Therefore, no compound required qualification.

Project specific quality assurance/quality control

The relative percent difference (RPD) between sample MW-08-01 and its field duplicate was outside control limits for 1,2-dichloroethane, benzene and ethylbenzene. These compounds were qualified as estimated, “J”.

Compound quantitation and reporting limits

Where a dilution was required, due to either matrix interference or to quantify the data, elevated reporting limits were reported.

Overall assessment of data

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

For lab package 213110611, the continuing calibration verification percent drift (%D) for trichlorofluoromethane was above QC limits. This compound was not detected in any associated sample and required no qualification.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*/Reason
S10-MW6	Nitrate	43.2 J
SD08-MW13	Nitrate	12.9 J
SD08-MW13A	Nitrate	11.9 J
SD08-MW12	Nitrate	21.7 J
SWMU183-MW03	Nitrate	23.0 J
MW-08-01	1,2-Dichloroethane Benzene Ethylbenzene	26.1 J 1.25 J 0.785 J
MW-08-01A	1,2-Dichloroethane Benzene Ethylbenzene Silver	42.2 J 0.534 J 0.276 J 0.043 J
MW-08-02	Arsenic	0.014 J
MW-08-03	Silver	0.030 J

*volatiles in µg/L/metals in mg/l