DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 49TH FIGHTER WING (ACC)
HOLLOMAN AIR FORCE BASE, NEW MEXICO

30 NOV 1998

MEMORANDUM FOR NEW MEXICO ENVIRONMENT DEPARTMENT
Attn: Mr. Cornelius Amindyas
Hazardous and Radioactive Materials Bureau
2044 Galisteo
P.O. Box 26110
Santa Fe NM 87502

DEC 02 1998

FROM: 49 CES/CEVR
550 Tabosa Avenue
Holloman AFB NM 88330-8458

SUBJECT: Submittal of Preliminary Assessment/Site Inspection Report for AOC-Ritas Draw

1. Attached is the *Preliminary Assessment/Site Inspection Report for AOC-Ritas Draw, Holloman Air Force Base, New Mexico*, November 1998 [Phase I Resource Conservation and Recovery Act Facility Investigation]. This report documents the methods and results of the site investigation. Based on these results, Holloman AFB (HAFB) believes additional investigative work at this site is unnecessary because there is no evidence of any release at the site. HAFB will remove the empty barrels exposed to atmospheric elements and will manage them appropriately.

2. If you have any questions or require additional information, please contact Drew Lessard at (505) 475-5177.

Howard E. Moffitt
HOWARD E. MOFFITT
Deputy Base Civil Engineer

Attachment:
Preliminary Assessment/Site Inspection Report for AOC-Ritas Draw, Holloman Air Force Base, New Mexico

cc w/ Atch:
Julie Jacobs
New Mexico Environment Department
Ground Water Protection and Remediation Bureau
1190 St. Francis Drive
Santa Fe NM 87502

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GROUNDWATER
TECHNOLOGY
GOVERNMENT SERVICES

Groundwater Technology Government Services, Inc.
2501 Yale Boulevard SE, Suite 204 Albuquerque, NM 87106 USA
Tel: (505) 242-3113 Fax: (505) 242-1103

November 11, 1998

Mr. Michael J. Bone, P.E.
Foster Wheeler Environmental Corporation (FWENC)
143 Union Boulevard, #1010
Lakewood, CO 80228

FINAL

RE: Preliminary Assessment/Site Inspection Report for AOC-Ritas Draw, Holloman Air Force Base, New Mexico, Delivery Order 18, Work Authorization Directive 05

Prime Contract No. DACW-45-94-D-0003
MOA NO. DENS-94-11159JM

Dear Mr. Bone:

This letter presents the results of the Preliminary Assessment/Site Inspection (PA/SI), Phase I Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI), conducted at Area of Concern (AOC)-Ritas Draw, Holloman Air Force Base (AFB), New Mexico in May 1998. The work consisted of a geophysical survey and collecting direct push technology (DPT) soil and groundwater samples to determine the location and extent of an abandoned drum burial site. The work was performed in accordance with the standard operating procedures (SOPs) established in the "Field Sampling Plan and Quality Assurance Project Plan for Preliminary Assessment/Site Inspection for AOC-Ritas Draw, Holloman AFB, New Mexico" (Foster Wheeler Environmental Corporation [FWENC] and Groundwater Technology, 1998).

1.0 INTRODUCTION

1.1 Purpose and Scope

The purpose of the investigation was to determine the location and extent of potential chemicals that might have been released at the abandoned drum burial site. A geophysical survey was conducted at the site to locate possible buried drums related to missile testing that occurred at Holloman AFB during the 1950s. Based upon the geophysical survey results, close proximity to potential source areas was investigated using DPT. A total of four DPT borings were installed at AOC-Ritas Draw.

2.0 AOC-Ritas Draw

2.1 Characterization and Setting

AOC-Ritas Draw is located in a remote portion of the North Base Area, approximately 300 feet (ft) northwest of Installation Restoration Program (IRP) Site OT-04, the Acid Trailer Burial Site (Solid Waste Management Unit [SWMU] 102) (Figures 1-1 and 1-2). AOC-Ritas Draw is located in and adjacent to an arroyo known as Ritas Draw. During a previous field reconnaissance in the area of AOC-Ritas Draw, two partially buried drums were discovered. These drums were believed to be related to early missile testing that occurred on Holloman AFB during the 1950s. The drums are empty, no soil staining is evident, and the original contents of the drums are unknown. The site is inactive.

2.2 Operational History and Waste Characteristics

AOC-Ritas Draw is located near the Acid Trailer Burial Site (OT-04). At the Acid Trailer Burial Site, waste materials were dumped and buried on a one-half acre tract of land along the banks of the arroyo. The waste materials appear to have been placed in three drainages of a side channel to Ritas Draw and were subsequently covered with soil from the surrounding area. The majority of the waste at Site OT-04 may have originated from the former Unconventional Fuels Storage Area, which is located one-half mile to the south. The Unconventional Fuels Storage Area housed propellants, oxidizers, and other fuel components that were used by the 6585th Test Group for rocket and sled tests conducted at the Base. Compounds typically stored at the facility included, but were not limited to, the following: JP-4 (jet fuel); unsymmetrical dimethylhydrazine (UDMH); aniline; inhibited red fuming nitric acid; inhibited white fuming nitric acid; liquid oxygen; JPX (1:1 JP-4 and UDMH); dyes; and other compounds (Radian, October 1992; 1995).

During a site visit in 1991, the following materials were observed at the Acid Trailer Burial Site: a partially buried tank trailer, an unlabeled empty 55-gallon stainless steel drum, approximately 20 one-quart amber bottles filled with solid compounds, rocket engines, a fuselage, and various other debris (Radian, October 1992). The exact dates of disposal activities at Site OT-04 are unknown, but some disposal occurred in the 1950s. An empty, fuming nitric acid transport trailer was buried at Site OT-04 around 1958. The trailer was reported to have been washed out with water prior to burial (Radian, October 1992; 1995).

The Acid Trailer Disposal Site was investigated under the IRP Phase I and Phase II Remedial Investigation (RI)/RFI conducted from 1991-1994. Buried waste, including potentially explosive material (picric acid), was encountered in exploratory pits dug at SWMU 102 (the Acid Trailer Burial Site) during the 29 sites RI. Four monitor wells (MW-04-01 through MW-04-04) were installed at Site OT-04 and selenium was detected in the groundwater. A warning fence was erected to prohibit unauthorized access. A voluntary corrective action (Human Factors Application, Inc., 1994) removed the waste from the site and replaced the warning fence with a 5-ft high chain-link fence. A quantitative risk assessment conducted for Site OT-04 indicated an acceptable human risk and an unacceptable environmental risk posed by selenium in groundwater (Radian, June 1992; 1995). A Base-wide background study (Radian, 1993) was conducted to establish background concentrations (upper tolerance limits [UTLs]) for inorganics in soil and groundwater. The background concentrations for selenium in groundwater is higher than the concentrations detected during either the Phase I or Phase II activities. Therefore, there was no indication that a release had occurred at Site OT-04. No Further Action (NFA) was recommended for SWMU 102 and the site was closed out in 1995.

3.0 INVESTIGATION METHODS

3.1 Geophysical Survey

A geophysical survey was performed at AOC-Ritas Draw from May 18 through May 20, 1998. A copy of the geophysical report is provided as Attachment A. Several 55-gallon drums were evident on the ground at the site. The purpose of the geophysical survey was to determine the location of any buried drums that may also exist at the site. The geophysical data were used to determine the location of investigative DPT boreholes.

AOC-Ritas Draw is characterized by a horseshoe-shaped feature, with a rim on the west, south, and east sides, and an arroyo below on the north side. There are six or seven individual drainages within Ritas Draw that merge near the arroyo. The 55-gallon drums observed on the surface are located in drainages on the south and east sides of Ritas Draw. Some of the drums are partially buried. The ground surface is disturbed (as if scraped with a bulldozer) at the top of three of the drainages. The survey area was 300 ft by 450 ft and covered an area from the rim above Ritas Draw down into the arroyo. Data were collected along lines in a north-south manner.

A magnetic gradient map was generated from the survey data and is included in Attachment A. The responses from the drums on the surface are apparent on the map. There are several other anomalies that don't correspond to the surface drums, of which many are due to metallic scrap on the ground surface. Of interest are three large anomalies that don't correspond to any surface metal. These are located at the southwest part of the grid (65E, 105N), the southeast part of the grid (220E, 75N and 240E, 75N), and the east part of the grid (245E, 260N, 255E, 250N and 275E, 225N) (Attachment A). These anomalies are large enough to be caused by one or more buried drums and also correspond to disturbed ground (labeled "Disturbed Areas 1 through 3" on Figure 1-3).

3.2 DPT Soil Sampling/Analysis

Four DPT borings were installed during the PA/SI (RITA-1 through RITA-4) (Figure 1-3). The DPT boring locations were determined based upon the results of the geophysical survey (Attachment A). Borings RITA-1, -2, and -4 were drilled adjacent to disturbed areas identified by the magnetic survey and/or in the vicinity of 55-gallon drums observed on the ground surface. Boring RITA-4 was also drilled downgradient of the site at the base of a slope in an attempt to encounter groundwater. Boring RITA-3 was drilled as an extra boring to the three recommended in the Field Sampling Plan (FSP) since the total footage of the first three borings was less than expected. Boring RITA-3 was placed at the head of the two drainages leading to Disturbed Areas 1 and 2 (Figure 1-3). All boring locations were preapproved by the project team (Base and United States Army Corps of Engineers [USACE]). Soil samples were collected continuously from 3-ft DPT cores to the total depth of each boring (9 to 20 ft below ground surface [bgs]). The samples were used to develop lithologic descriptions for the boring logs and were field-screened for volatile organic compound (VOC) headspace vapors using a photoionization detector (PID). Drilling logs are included as Attachment B and Daily Quality Control Reports (DQCRs) are provided as Attachment C. Soil samples were collected and handled in accordance with SOPs presented in Appendix A of the AOC-Ritas Draw work plan (FWENC and Groundwater Technology, 1998).

Four soil samples were collected for chemical analysis from each of borings RITA-1 and RITA-2: the surface (0 to 2 ft) soil sample, the sample from the bottom of each boring, and two samples selected on the basis of sample recovery and even vertical distribution since no PID readings were detected. One soil sample was collected from RITA-3 at 0 to 2 ft bgs, and two soil samples were collected from RITA-4 at 0 to 2 ft bgs and from the soil-groundwater interface. The samples were shipped under strict chain-of-custody (COC) to Quanterra Environmental Services (Quanterra), Denver, CO,

for analysis of VOCs (EPA SW-846 Method 8260A), semivolatile organic compounds (SVOCs) (EPA SW-846 Method 8270B), explosives (EPA SW-846 Method 8330), and Target Analyte List (TAL) metals (EPA SW-846 6010B/7471A). A copy of the laboratory analytical report is included in Attachment D.

3.3 DPT Groundwater Sampling/Analysis

Groundwater was encountered at approximately 6.5 ft and 7.5 ft bgs in borings RITA-3 and RITA-4. These DPT boreholes were converted to groundwater sampling points by extending the probe to at least 3 ft below the water table and setting a temporary 3-ft long well screen. Groundwater was collected directly from the aquifer after releasing the drive point and partially retracting the rods. A peristaltic pump and Teflon® tubing were inserted through the drive rods and used to retrieve the sample. A single tubing volume of groundwater was purged prior to sample collection. After sample collection, the DPT boreholes were abandoned and the site was restored in accordance with the FSP.

The samples were shipped under strict COC procedures to Quanterra and analyzed for VOCs (EPA SW-846 Method 8260A), SVOCs (EPA SW-846 Method 8270B), explosives (EPA SW-846 Method 8330), and TAL metals (EPA SW-846 6010B/7470A). A copy of the laboratory analytical report is included in Attachment D.

4.0 INVESTIGATION RESULTS

4.1 Soil Sampling Results

During the investigation, soil cores were examined and logged in accordance with the Unified Soil Classification System (USCS). Drilling logs are provided as Attachment B. Soils underlying the site in the vicinity of borings RITA-1 and RITA-2 consisted of 10 to 14 ft of silt underlain by interbedded silt, fine-grained sand, and clay to total boring depths of approximately 20 ft bgs. Borings RITA-3 and RITA-4 encountered interbedded sand, silt, and clay. Groundwater was encountered at 6.5 and 7.5 ft bgs in RITA-3 and RITA-4, respectively, drilled downslope in the northern portion of the site. Groundwater flow at the nearby Acid Trailer Burial Site is to the north-northwest toward Ritas Draw.

Soil analytical results are summarized in Table 1 and laboratory analytical reports are provided as Attachment D. Acetone was detected at concentrations of 20-25 micrograms per kilogram (µg/kg) in the 12-foot and 18-foot samples from boring RITA-2. Acetone is a common laboratory contaminant, and was detected in the associated method blank at 7.2 µg/kg (estimated result, result below the RL). No other VOCs, SVOCs, or explosives were detected above the RLs in the samples. Several metals were detected in the samples above the RLs as shown in Table 1. The Data Quality Control Summary Report for the analytical program is provided as Attachment E.

4.2 Groundwater Sampling Results

Groundwater analytical results are summarized in Table 2 and laboratory analytical reports are provided as Attachment D. No VOCs were detected above the RLs in groundwater samples from borings RITA-3 and RITA-4. No SVOCs or explosives were detected in the groundwater samples. Metals detected above the RLs in one or more samples included (milligrams per liter [mg/L]): arsenic (0.029-0.032), antimony (0.032-0.036), calcium (799-828), iron (0.63), potassium (54.6-63.8), magnesium (1,660-1,840), manganese (0.11 to 0.36), and sodium (9,490-11,600). The Data Quality Control Summary Report for the analytical program is provided as Attachment E.

4.3 Screening Level Human Health and Environmental Risk Evaluation

A screening level evaluation was conducted to identify potential chemicals of concern. The evaluation involved a comparison of detected concentrations of constituents in each media with the EPA Region 6 Media-Specific Screening Levels (EPA, October 30, 1996) and the New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards for groundwater of 10,000 mg/L total dissolved solids (TDS) concentration or less. If the concentration was below both criteria, it was eliminated. As a second tier screening, metal concentrations were compared to Base-wide background. If the metal was below background, it was eliminated. Lastly, the metals were also compared to available regional data and evaluated with respect to the conceptual site model (Figure 1-4). If the metals were below these ranges, and given the remote site conditions and lack of potable groundwater, these metals were not further evaluated. Groundwater at Holloman AFB exceeds 10,000 mg/L TDS and is not used as a potable, irrigation, or production well water supply.

For soils, one metal (arsenic) exceeded the screening levels (Table 3). The 9-foot sample from RITA-1 (2.0 milligrams per kilogram [mg/kg]) and the 12-foot samples from RITA-2 (17.4 and 9.1

mg/kg) met or exceeded the Risk-Based Screening Level for Industrial Soil for arsenic as a carcinogen of 2.0 mg/kg. The two samples from RITA-2 also exceeded the Base-wide UTL for arsenic of 6.883 mg/kg. However, the RITA-2 arsenic concentrations are well within the observed range of <0.10 to 97 mg/kg for arsenic for the Western United States (USGS, 1984).

For groundwater, the sample from boring RITA-3 (32 micrograms per liter [µg/L]) exceeded the Risk-Based Screening Level for Tap Water for arsenic (noncancer) (23 µg/L) and arsenic (carcinogen) (0.04 µg/L), but was below the Base-wide UTL of 72.3 µg/L. The water samples from RITA-3 and RITA-4 also contained 36 µg/L and 32 µg/L antimony, which exceeded both the Drinking Water Maximum Contaminant Level (MCL) of 6 µg/L and the Tap Water Screening Level of 15 µg/L, but was less than the Base-wide UTL of 89.6 µg/L. The sample from RITA-4 also contained 360 µg/L manganese, which exceeds both the Tap Water Screening Level of 180 µg/L and the NMWQCC standard of 200 µg/L. No Base-wide UTL has been established for manganese. However, it did not exceed the typical range of <1 to 1,000 µg/L for manganese in groundwater for natural elemental concentrations (Dragun, 1988).

Based on the physical site inspection and the soil and groundwater analytical results, there are no indications of any release at the site. Based on the results of the PA/SI and screening evaluation, NFA is recommended for AOC-Ritas Draw.

4.4 Survey Data

The locations of the DPT borings were surveyed by the Base for New Mexico State Plane X and Y coordinates. The survey data are included in Attachment F.

4.5 IDW Handling/Characterization

During the investigation, DPT split spoons and groundwater sampling screen attachments were decontaminated between soil sampling intervals and groundwater sampling locations in accordance with the FSP. The investigation generated approximately 8 gallons of soapy decontamination water. The investigation-derived waste (IDW) water was combined with the IDW water generated at Site SS-39 and placed in a labeled 55-gallon drum in accordance with the FSP. On May 23, 1998, after all sampling activities were completed, IDW water sample "waste drum" was collected from the drum and shipped to Quanterra for analysis of VOCs (EPA SW-846 Method 8260A), SVOCs (EPA

SW-846 Method 8270B), and TAL metals (EPA SW-846 6010B/7470A). A copy of the laboratory analytical report is included in Attachment D. No VOCs or SVOCS were detected above the RLs. Since all analytical results were less than New Mexico Water Quality Control Commission Human Health Standards for groundwater, the water was discharged to the ground surface on August 12, 1998.

5.0 REFERENCES

20 NMAC 6.2, December 1995. Water Quality Control Commission Regulations, NMED Water Quality Bureau.

Dragun, J., 1998. The Soil Chemistry of Hazardous Materials. Hazardous Materials Control Institute, Silver Spring, MD.

EPA, October 30, 1996, Human Health Media-Specific Screening Levels, Region 6.

FWENC and Groundwater Technology, April 1998, Field Sampling Plan and Quality Assurance Project Plan for Preliminary Assessment/Site Inspection of AOC-Ritas Draw, Holloman AFB, New Mexico.

Human Factors Application, Inc. 1994, Interim Measures.

Radian Corporation, December 1993, Phase I - Groundwater Assessment Monitoring Report for Holloman Air Force Base, New Mexico, Appendix B.2 "Statistical Analysis of Metals Data for Phase I Assessment Monitoring."

Radian Corporation, October 1992, Remedial Investigation (RI) Report: Investigation, Study, and Recommendation for 29 Waste Sites.

Radian Corporation, June 1992, Risk Assessment (RA) Report for the Remedial Investigation - Investigation, Study, and Recommendation for 29 Waste Sites, Holloman AFB, New Mexico.

Radian Corporation, June 1995, Draft Final Phase II RCRA Facility Investigation Report, Table 1 Solid Waste Management Units.

USGS, 1984. Element Concentrations in Soil and Other Materials of the Conterminous United States. USGS Professional Paper 1270.

Following receipt and incorporation of your review comments, final copies of this report will be issued. If you have any questions regarding this report, please call me at (505) 242-3113.

Sincerely,

Groundwater Technology Government Services, Inc.

Charles W. Schick, PG
Project Manager

Enclosures:
- Figure 1-1- Site Location Map
- Figure 1-2 - Site Map
- Figure 1-3 - Site Map of AOC-Ritas Draw Showing Boring Locations
- Figure 1-4 - Site Conceptual Model
- Table 1 - Soil Analytical Results
- Table 2 - Groundwater Analytical Results
- Table 3 – Screening for Chemicals of Potential Concern
- Attachment A - Geophysical Survey Report
- Attachment B - DPT Drilling Logs
- Attachment C - Daily Quality Control Reports (DQCRs)
- Attachment D –Laboratory Analytical Reports
- Attachment E – Daily Quality Control Summary Report
- Attachment F – Survey Data

cc: M. Mercier – USACE, Omaha, NE
D. Holmquist- FWENC, Holloman AFB, NM
D. Lessard- 49CES/CEV, Holloman AFB, NM

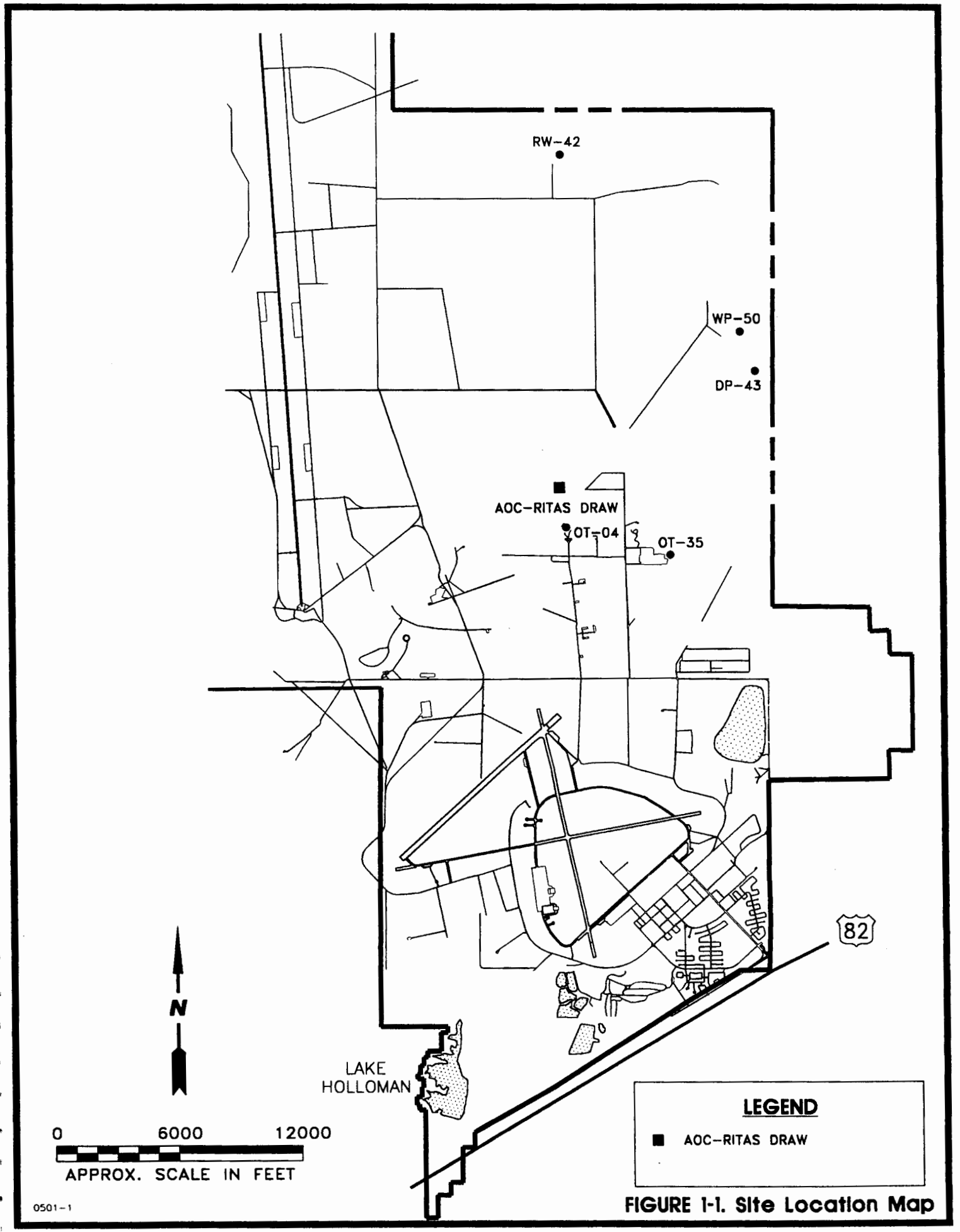

FIGURE 1-1. Site Location Map

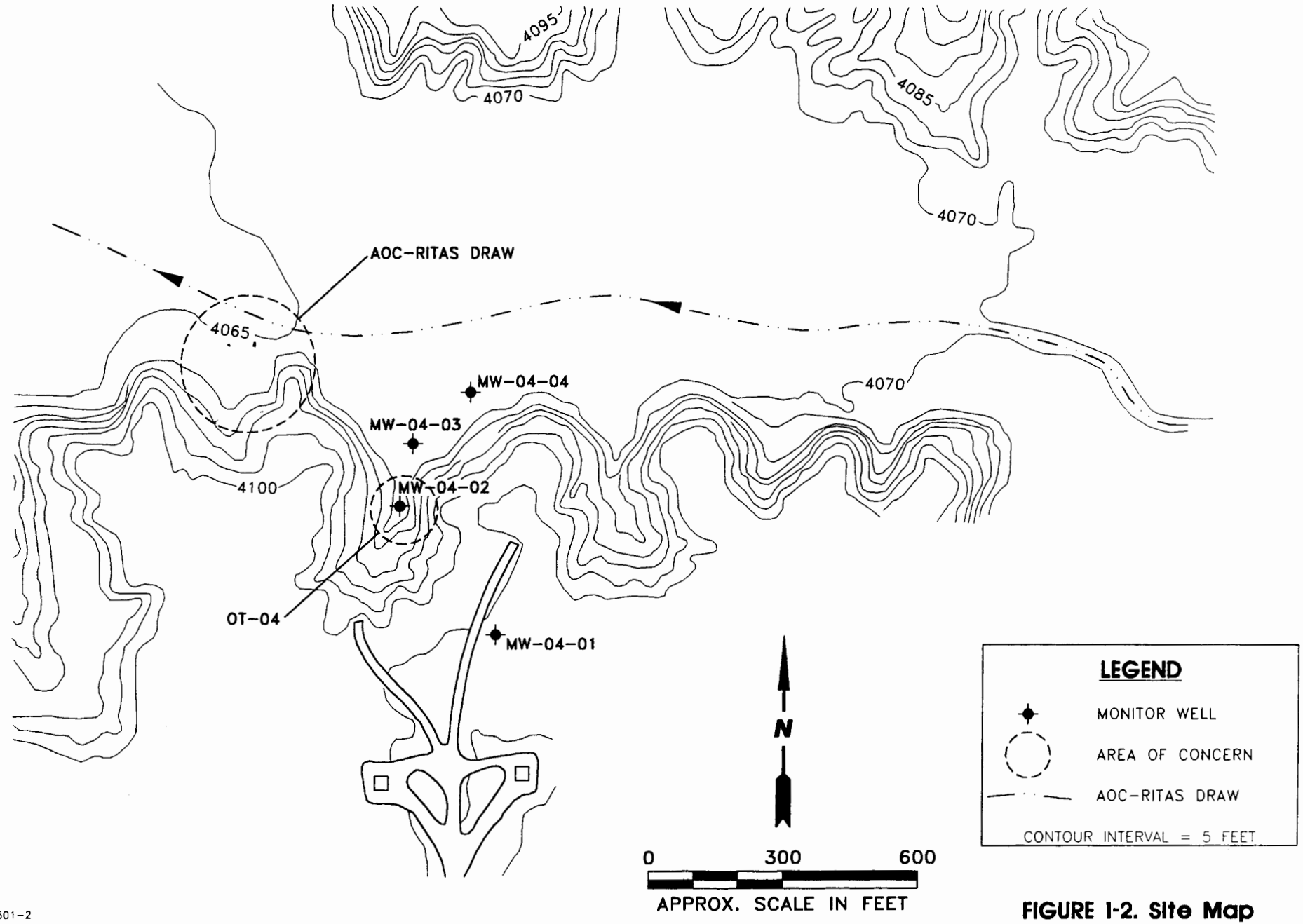

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FIGURE 1-2. Site Map

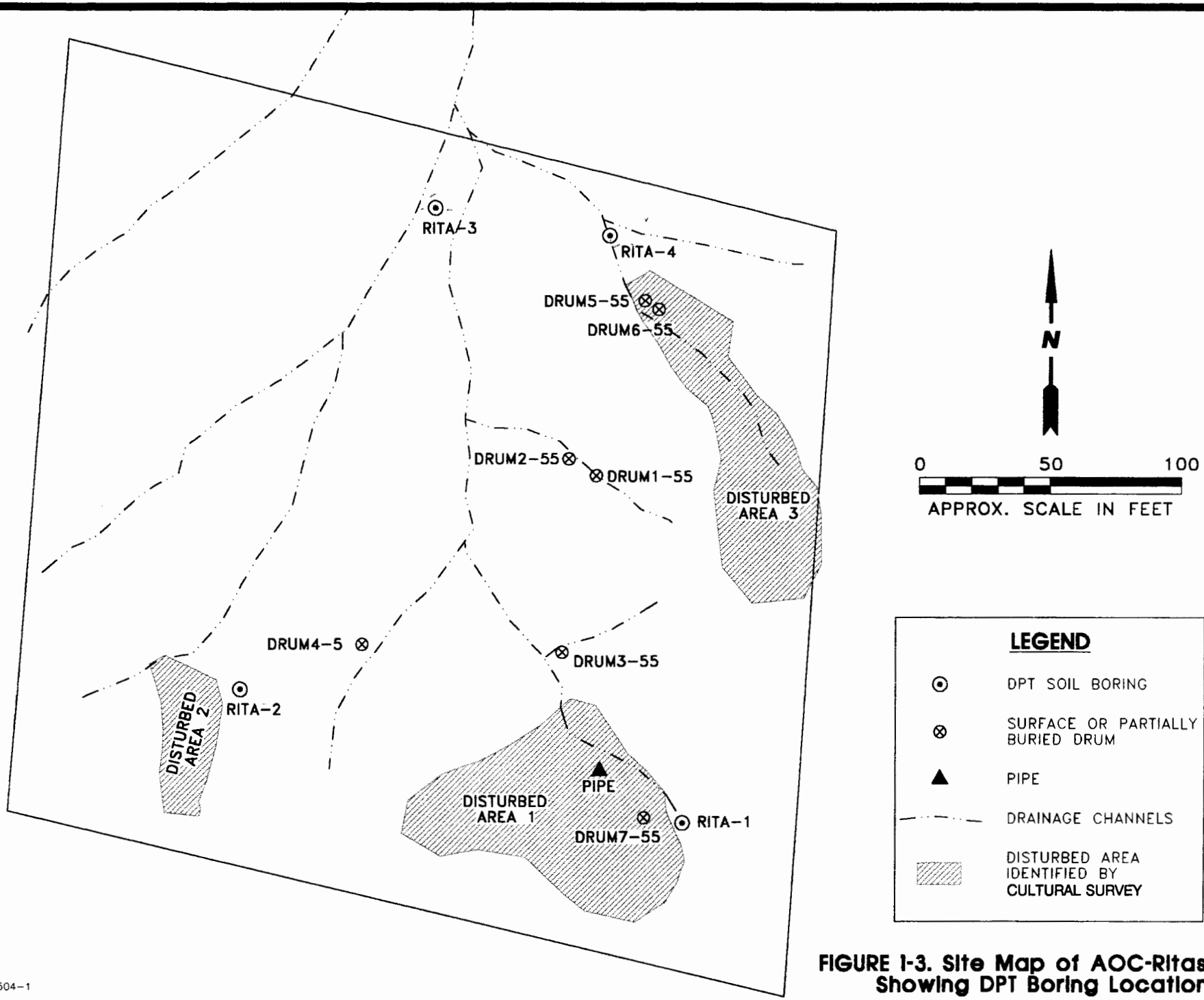

FIGURE 1-3. Site Map of AOC-Ritas Draw Showing DPT Boring Locations

0504-1

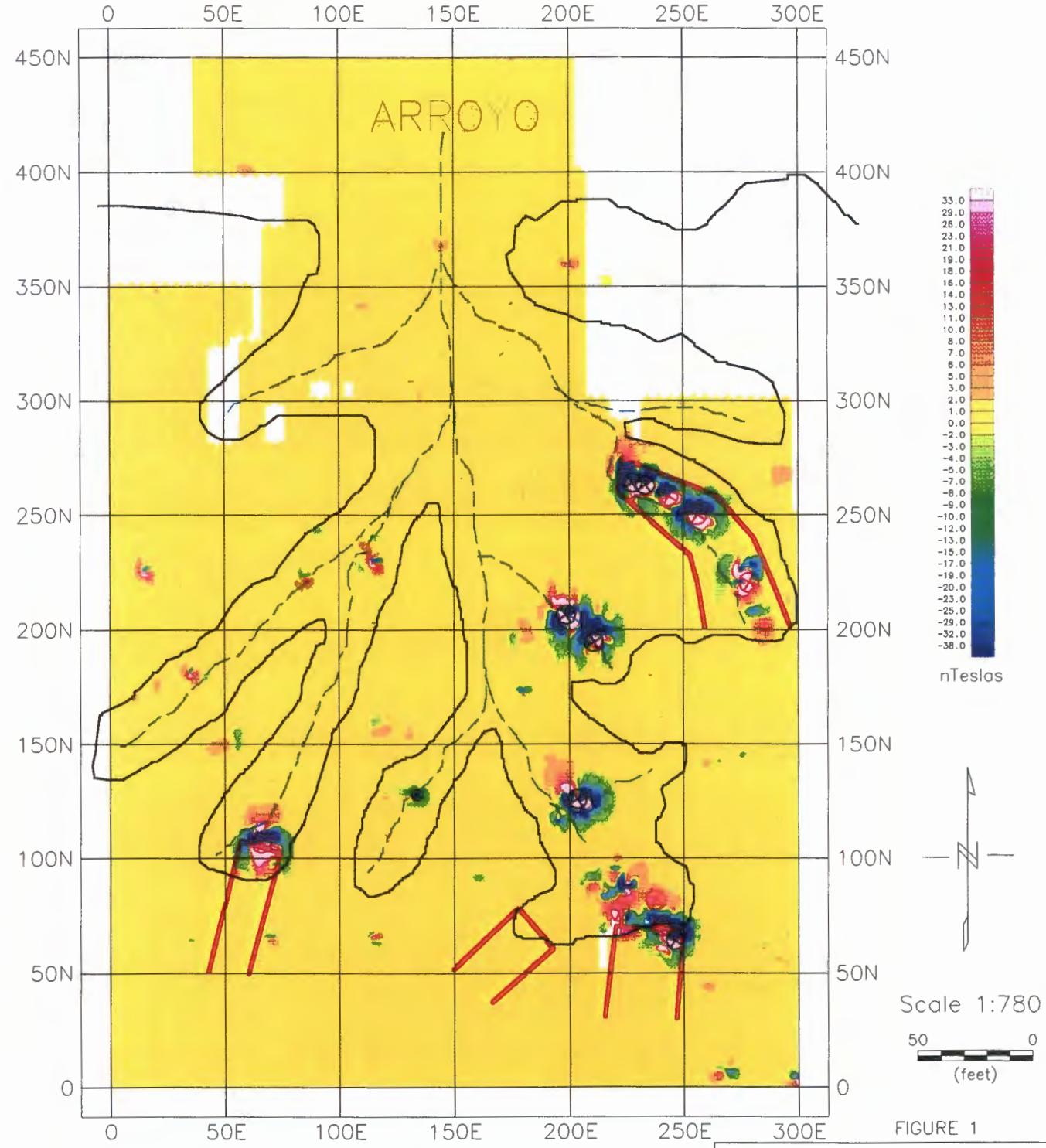

FIGURE 1

Rim Edge

Drainage

Disturbed surface

55-gallon drum

5-gallon drum

Potential Buried Drum

HOLLOMAN AFB

AOL- RITAS DRAW
Vertical Gradient
Magnetic Field

Foster Wheeler Environmental 5/98

Figure 1-4
Site Conceptual Model (a)
AOC-Ritas Draw PA/SI
Holloman AFB, New Mexico

Primary Source	Release Mechanism	Exposure Pathway	Exposure Route	POTENTIAL RECEPTORS: Air Force Base Worker Adult (age >18)	AFB Resident Child (age <6)	AFB Resident Adult (age >6)	Construction/Utility Worker Adult (age >18)
Soil	Soil	Direct Contact	Incidental Ingestion	●			●
	Soil	Direct Contact	Dermal Contact	●			●
	Volatiles	Ambient Air	Inhalation				
	Wind Erosion/Particle Emissions	Fugitive Dust	Inhalation	●			●
	Leaching/Infiltration	Groundwater	Drinking Water				
Groundwater	Groundwater	Direct Contact	Incidental Ingestion				●
	Groundwater	Direct Contact	Dermal Contact				●
	Volatilization	Ambient Air	Inhalation				
	Volatilization	Indoor Air	Inhalation				
	Groundwater	Direct Contact	Drinking Water				
	Migration to Surface Water	Direct Contact	Incidental Ingestion				
	Migration to Surface Water	Direct Contact	Dermal Contact				

Notes:

● Pathway is assumed to be complete based on site conditions.

(a) Assumes current use is an inactive, remote portion of AFB with future use remaining commerical/industrial and groundwater is not used as a drinking water source. No ecological evaluation was included in scope of work.

Figure 1-4 (Continued)
Site Conceptual Model (a)
AOC-Ritas Draw PA/SI
Holloman AFB, New Mexico

Receptor	Exposure Point (media)	Land Use		Exposure Route			Remarks
		Current	Future*	Ingestion	Inhalation	Dermal	
Air Force Base Worker (age > 18)	Soil		✓	✓	✓	✓	Currently, the AOC-Ritas Draw is inactive in a remote portion of Holloman AFB. Therefore, no exposure to soil is likely to occur. Future air force base workers may have direct contact with surface soil (0-3 feet) during outside workday activities in uncovered portions of the AOC-Ritas Draw. Exposure routes may include incidental ingestion, dermal contact, and inhalation of fugitive dust. Inhalation of volatiles is unlikely as the chemicals of potential concern, metals, do not volatilize.
	Groundwater						No exposure. Groundwater at the site and surrounding area is not used as a potable, irrigation, or production well water supply. In addition, exposure via inhalation of volatiles in air will not occur as the chemicals of potential concern are metals.
AFB Resident Child (ages <6); Adult (ages >6)	Soil						No exposure. Currently, the AOC-Ritas Draw is inactive in a remote portion of Holloman AFB. In the future, this portion of the AFB is assumed to remain industrial/commercial. Therefore, no residents are likely to be exposed and future AOC-Ritas Draw workers are the most sensitive receptor. The nearest residents are approximately 4 miles from the AOC-Ritas Draw portion of Holloman AFB.
	Groundwater						No exposure. Groundwater at the site and surrounding area is not used as a potable, irrigation, or production well water supply. In addition, exposure via inhalation of volatiles in air will not occur as the chemicals of potential concern are metals.
Construction Utility/Worker (ages > 18)	Soil		✓	✓	✓	✓	Currently, the AOC-Ritas Draw is inactive in a remote portion of Holloman AFB. In the future, this portion of the AFB is assumed to remain industrial/commercial and construction activities involving excavation may involve direct contact with soil (0 - 20 feet). Exposure routes may include incidental ingestion, dermal contact, and inhalation of fugitive dust. Inhalation of volatiles is unlikely as the chemicals of potential concern, metals, do not volatilize.
	Groundwater		✓	✓		✓	Groundwater at the site and surrounding area is not used as a potable, irrigation, or production well water supply. Direct contact with shallow groundwater may occur during construction activities involving excavation, however, dewatering will reduce exposure. In addition, exposure via inhalation of volatiles in air during trenching operations will not occur as the chemicals of potential concern are metals.

Notes:
(a) Assumes ecological receptors are not evaluated.
*Future use of AOC-Ritas Draw portion of Holloman AFB is assumed to remain commercial or industrial.
✓ = Exposure pathway is likely to occur and may be quantified if chemicals of potential concern are identified.

TABLE 1
SOIL ANALYTICAL RESULTS
AOC-RITAS DRAW
HOLLOMAN AFB, NEW MEXICO
MAY 21, 1998

Sample ID	RITA-1-2	RITA-1-9	RITA-1-15	RITA-1-20	RITA-2-2	RITA-2-5	RITA-2-12	RITA-2-12-DUP	RITA-2-18	RITA-3-2	RITA-4-2	RITA-4-8
Depth (ft)	**2**	**9**	**15**	**20**	**2**	**5**	**12**	**12**	**18**	**2**	**2**	**8**
VOCs-EPA SW-846 Method 8260A (μg/kg)												
Acetone	15J,BL	16J	13J	10J	17J	11J	20	23	25	12J	16J	18J
Methylene Chloride	4.7J,BL	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
2-Butanone (MEK)	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	8.4J
All others	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCS-EPA SW-846 Method 8270B (μg/kg)												
All analytes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitroaromatics and Nitramines-EPA SW-846 Method 8330 (μg/g)												
All analytes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TAL Metals-EPA SW-846 Methods 6010B/7471A (mg/kg)												
Arsenic	1.8B	2.0	1.5B	1.2B	ND<5.0	ND<1.0	17.4	9.1	1.1B	0.98B	0.80B	1.4B
Cadmium	ND<1.0	0.37B	0.39B	ND<1.0	ND<2.5	0.084B	0.17B	0.16B	0.13B	ND<1.0	0.17B	0.15B
Lead	1.9	5.1	5.3	0.39B	ND<1.5	0.71	0.79	ND<0.60	0.89	0.48B	2.0	1.2
Antimony	1.8B	1.5B	1.7B	1.9B	2.6B	ND<1.0	1.7B	1.6B	1.6B	1.6B	0.90B	1.7B
Selenium	ND<1.0	1.3	ND<1.0	ND<1.0	ND<2.5	ND<0.50	0.56B	0.53B	ND<1.0	ND<1.0	0.61	ND<1.0
Thallium	ND<2.0	1.1B	ND<2.0	ND<2.0	1.9B	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<2.0
Silver	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<2.0	0.75B	ND<2.0	ND<2.0	ND<1.0	ND<2.0
Aluminum	2,270	11,800	12,600	1,390	478	1,680	944	979	2,350	994	3,540	2,220
Barium	26.6	79.3	29.0	27.3	10.7	15.4	9.3	9.2	22.0	10.9	10.2	4.4
Beryllium	ND<0.40	0.61	0.67	ND<0.40	ND<0.40	0.11B	ND<0.40	ND<0.40	ND<0.40	ND<0.40	0.25	ND<0.40
Calcium	164,000	154,000	179,000	146,000	199,000	15,400	168,000	164,000	136,000	146,000	67,600	136,000

TABLE 1 (Concluded)
SOIL ANALYTICAL RESULTS
AOC-RITAS DRAW
HOLLOMAN AFB, NEW MEXICO
MAY 21, 1998

Sample ID	RITA-1-2	RITA-1-9	RITA-1-15	RITA-1-20	RITA-2-2	RITA-2-5	RITA-2-12	RITA-2-12-DUP	RITA-2-18	RITA-3-2	RITA-4-2	RITA-4-8
Depth (ft)	**2**	**9**	**15**	**20**	**2**	**5**	**12**	**12**	**18**	**2**	**2**	**8**
TAL Metals-EPA SW-846 Methods 6010B/7471A (mg/kg) (continued)												
Cobalt	0.91B	3.5	4.1	ND<2.0	ND<2.0	0.46B	0.64B	1.3B	ND<2.0	ND<2.0	1.4	1.3B
Chromium	3.1	14.8	14.5	4.2	ND<2.0	3.9	1.8B	2.4	1.8B	1.5B	4.5	1.9B
Copper	1.4B	5.0	4.7	ND<4.0	ND<4.0	0.49B	0.78B	1.2B	ND<4.0	ND<4.0	1.9B	1.8B
Iron	326	2,240	6,680	1,190	888	1,160	3,940	5,200	1,480	569	3,960	2,500
Potassium	484B	3,150	3,280	325B	ND<1,000	388B	259B	355B	479B	208B	955	540B
Magnesium	2,830	7,290	5,600	735	611	764	468	471	1,090	718	2,530	2,600
Manganese	47.7	99.3	232	12.9	5.3	17.1	9.6	11.1	16.7	15.7	80.8	23.8
Sodium	ND<1,000	798B	1,560	ND<1,000	ND<1,000	ND<500	ND<1,000	ND<1,000	ND<1,000	480B	920	1,310
Nickel	2.4B	11.0	11.5	2.9B	ND<8.0	1.8B	ND<8.0	1.6B	1.5B	1.2B	3.9B	2.5B
Vanadium	8.5	21.0	17.5	2.4	1.1B	3.0	22.8	16.9	3.6	2.1	7.0	5.2
Zinc	6.2	25.8	28.4	3.8B	1.3B	3.1	2.6B	3.3B	4.9	3.3B	9.0	7.5
Mercury	ND<0.033	ND<0.033	ND<0.033	ND<0.033	ND<0.033	ND<0.033	ND<0.033	ND<0.033	ND<0.033	ND<0.033	ND<0.033	ND<0.033

<	Indicates compound not detected at or above the RL.
B	Estimated result; result is less than RL.
BL	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
ft	Feet
J	Estimated result; result is less than RL.
mg/kg	Milligrams per kilogram
ND	Not detected
RL	Reporting limit
SVOCs	Semivolatile organic compounds
TAL	Target Analyte List
μg/kg	Micrograms per kilogram
VOCs	Volatile organic compounds

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
AOC-RITAS DRAW
HOLLOMAN AFB, NEW MEXICO
MAY 21, 1998

Sample ID	RITA-3-GW-7	RITA-3-GWDP-7	RITA-4-GW-8
VOCs-EPA SW-846 Method 8260A (μg/L)			
Benzene	ND<1.0	ND<1.0	0.27J
Ethylbenzene	ND<1.0	ND<1.0	0.22J
2-Butanone (MEK)	ND<5.0	ND<5.0	1.2J
4-Methyl-2-pentanone	ND<5.0	ND<5.0	0.72J
Toluene	ND<1.0	ND<1.0	0.29J
Xylenes (total)	ND<1.0	ND<1.0	0.88J
All others	ND	ND	ND
SVOCS-EPA SW-846 Method 8270B (g/L)			
All analytes	ND	ND	ND
Nitroaromatics and Nitramines-EPA SW-846 Method 8330 (μg/L)			
All analytes	ND	ND	ND
TAL Metals-EPA SW-846 Methods 6010B/7470A (mg/L)			
Arsenic	0.032	0.029	0.017B
Cadmium	ND<0.010	0.0012B	ND<0.010
Lead	ND<0.014G	ND<0.015G	ND<0.014G
Antimony	0.034	0.036	0.032
Selenium	ND<0.026G	ND<0.023G	ND<0.017G
Thallium	ND<0.020	ND<0.020	ND<0.020
Silver	ND<0.10	ND<0.10	ND<0.050
Aluminum	ND<1.0	ND<1.0	ND<0.50
Barium	ND<0.10	ND<0.10	ND<0.050
Beryllium	ND<0.020	ND<0.020	ND<0.010
Calcium	828	823	799
Cobalt	ND<0.10	ND<0.10	ND<0.050
Chromium	ND<0.10	ND<0.10	ND<0.050
Copper	ND<0.20	ND<0.20	0.014B
Iron	ND<1.0	ND<1.0	0.63
Potassium	63.2	63.8	54.6
Magnesium	1,840	1,830	1,660
Manganese	0.13	0.11	0.36
Sodium	11,600	11,600	9,490

TABLE 2 (Concluded)
GROUNDWATER ANALYTICAL RESULTS
AOC-RITAS DRAW
HOLLOMAN AFB, NEW MEXICO
MAY 21, 1998

Sample ID	RITA-3-GW-7	RITA-3-GWDP-7	RITA-4-GW-8
TAL Metals-EPA SW-846 Methods 6010B/7470A (mg/L) (continued)			
Nickel	ND<0.40	ND<0.40	ND<0.20
Vanadium	ND<0.10	0.042B	ND<0.050
Zinc	ND<0.20	ND<0.20	ND<0.10
Mercury	ND<0.00020	ND<0.00020	ND<0.00020

<	Indicates compound not detected at or above the RL.
B	Estimated result; result is less than RL.
G	Elevated reporting limit. The reporting limit is elevated due to matrix interference.
J	Estimated result; result is less than RL.
mg/L	Milligrams per liter
ND	Not detected
RL	Reporting limit
SVOCs	Semivolatile organic compounds
TAL	Target Analyte List
μg/L	Micrograms per liter
VOCs	Volatile organic compounds

TABLE 3
SCREENING FOR CHEMICALS OF POTENTIAL CONCERN
AOC-RITAS DRAW PA/SI
HOLLOMAN AFB, NEW MEXICO

SOIL								
				Media-Specific Screening Levels [a]				
Sample ID	Rita-1-9	Rita-2-12	Rita-2-12-Dup	Industrial Soil	Transfer from soil	UTL[b]	Other	
Depth (ft)	9	12	12	(mg/kg)	to GW (mg/kg)	(mg/kg)	(mg/kg)	
Arsenic	2.0 mg/kg	17.4 mg/kg	9.1 mg/kg	(noncancer) 610 NI	20	6.883	<0.10-97[e]	
				(carcinogen) 2.0 C	20			
GROUNDWATER								
				Media-Specific Screening Levels [a]				
Sample ID	Rita-3-GW-7	Rita-3-GWDP-7	Rita-4-GW-8	Drinking Water (MCL)[c] (μg/L)	Tap Water (μg/L)	NMWQCC [d] (μg/L)	UTL [b] (μg/L)	Other (μg/L)
Arsenic	32 μg/L	29 μg/L	-	(noncancer) 50	2.3 NI	100	35.4	-
				(carcinogen) -	0.04C			
Antimony	34 μg/L	36 μg/L	32 μg/L	6	15	--	87.1	-
Manganese	-	-	360 μg/L	--	180	200	NE	<1-1,000[f]

a Human Health Media-Specific Screening Levels. United States Environmental Protection Agency; Region 6, 1445 Ross Avenue, Dallas, Texas 75202, October 30, 1996.
b "Phase I – Groundwater Assessment Monitoring Report for Holloman Air Force Base" (Radian, 1993).
c Federal Drinking Water Standards Maximum Contaminant Level (MCL), Office of Drinking Water, USEPA.
d NMWQCC Standards for Ground Water of 10,000 mg/L TDS concentration or less, Section 3103, 1995.
e Observed range for Western United States (USGS, 1984).
f Typical range for manganese in groundwater for natural elemental concentrations (Dragun, 1988).

C Carcinogen
Ft Feet
GW Groundwater
I Ingestion route only
MCL Maximum Contaminant Level
mg/kg Milligrams per kilogram
N Non-carcinogenic effects
NE Not established
NMWQCC New Mexico Water Quality Control Commission
μg/L Micrograms per liter
UTL Upper Tolerance Limit

ATTACHMENT A

GEOPHYSICAL SURVEY REPORT

A1.0 INTRODUCTION

A geophysical survey was performed at Area of Concern (AOC)-Ritas Draw from May 18 through 20, 1998. Several 55-gallon drums were evident on the ground at this site and the purpose of this survey was to determine the location of any additional drums that might be buried. The geophysical data were also used to determine the location of investigative boreholes.

Ritas Draw is characterized by a horseshoe-shaped feature rimmed on the west, south, and east sides, and an arroyo below on the north side. There are six or seven individual drainages within Ritas Draw that merge near the arroyo. The 55-gallon drums found on the surface are located in drainages on the south and east side of Ritas Draw. Some of the drums are partially buried. The ground surface is disturbed (possibly scraped by a bulldozer) at the top of three of the drainages. The survey area was 300 feet by 450 feet and covered an area from the rim above Ritas Draw into the arroyo below. Data were collected along lines in a north-south manner. There are several data gaps where the terrain was too steep to conduct field activities. Figure 1 shows the features previously discussed.

A2.0 DATA ACQUISITION

A Geometrics G858G gradiometer (magnetometer) was used to collect data. A magnetometer is effective for detecting ferrous metal and can detect 55-gallon drums to a depth of 10 feet. Although other instrumentation (Geonics EM61) is also effective for drum detection, the lightweight Geometrics magnetometer is better suited for the extremely steep and rough terrain encountered at Ritas Draw. The instrument was configured to sample the magnetic field at 10 times per second, or approximately one sample every 0.5 feet along each data acquisition line. Acquisition lines were spaced five feet apart. The two sensors were set at 1.6 and 3.2 feet, respectively, above ground surface.

A3.0 DATA ANALYSIS

Figure 1 shows the gradient of the magnetic field (bottom sensor readings minus the top sensor readings). The background values are shown in yellow. Ferrous metal is indicated by orange, red, pink, and blue. Responses attributable to the drums on the ground surface are apparent on the figure. However, there are several other anomalies that do not correspond to the surface drum locations, many of these are probably due to metallic scrap on the ground surface. Of interest are the larger anomalies that apparently do not correspond to any surface metal. These are located at the southwest part of the grid (65E, 105N), the southeast part of the grid (220E, 75N and 240E, 75N), and the east part of the grid (245E, 260N 255E, 250N, and 275E, 225N). These anomalies are large enough to be caused by one or more buried drums. They also correspond to areas of disturbed ground surface.

ATTACHEMENT B

DPT DRILLING LOGS

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: RITA-01
1. COMPANY NAME: FLUOR DANIEL GTI	2. DRILL SUBCONTRACTOR: TEG	SHEET 1 OF 2 SHEETS
3. PROJECT: AOC-RITA'S DRAW	4. LOCATION: HOLLOMAN AFB, NM	
5. NAME OF DRILLER: Karis Vandehey	6. MANUFACTURER'S DESIGNATION OF DRILL: STRATA PROBE	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2"x3' SS Split Spoons; 6" SS sleeves; PID 10.6 eV	8. HOLE LOCATION: See Map.	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 21 MAY 1998	11. DATE COMPLETED: 21 MAY 1998
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NONE @ TD	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: —	
14. TOTAL DEPTH OF HOLE: 20'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓	✓	SemiVols	Expl.		33/40

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	bentonite	—	—	Lee Scott Auwaerter

LOCATION SKETCH/COMMENTS

SCALE:

PROJECT	HOLE NO.
AOC-RITA'S DRAW	RITA-01

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: RITA-01

PROJECT: AOC-RITA'S DRAW

INSPECTOR: L. S. STEVENSON

SHEET 2 OF 2

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d) ppm	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		SILT, tan (5YR 8/2), dry, mod. firm ML					
	1		0				
	2		0		RITA-1-2		
	3		0				
	4		0				
	5	SILT, pink (5YR 7/3), dry, hard, cemented w/ gyp. ML	0				
	6		0				
	7	SILT, white (10YR 8/1), dry, loose ML	0				
	8	SILT, red (5YR 6/6), dry, hard, gyp. cemented, sl. plastic ML	0				
	9	SILT, gray (2.5Y 7/2), dry, firm ML	0		RITA-1-9		
	10	SILT, brown/pink mottled (5YR 6/6, 5YR 8/4), dry, firm to hard ML	0				
	11	SILT, brown (5YR 6/4), dry, firm ML	0				
	12	SILT w/ tr. clay, brown (5YR 6/4), tr. moisture, firm, sl. plastic. ML	0				
	13		0				
	14	V. fine SAND, brown (5YR 6/4), dry, firm SP	0				
	15	CLAY, brown (5YR 4/6) moist, firm, mod. plastic CL	0		RITA-1-15		
	16		0				
	17		0				1" clayey SAND lens @ ~17', gray/green
	18	SILT, white (10YR 8/1), dry, soft ML	0				
	19	V. fine SAND, pink (5YR 8/4), dry, hard SP	0				
	20		0		RITA-1-20		

PROJECT: AOC-RITA'S DRAW

HOLE NO. RITA-01

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: RITA-02
1. COMPANY NAME: FLUOR DANIEL GTI	2. DRILL SUBCONTRACTOR: TEG	SHEET 1 OF 2 SHEETS
3. PROJECT: AOC-RITA'S DRAW	4. LOCATION: HOLLOMAN AFB, NM	
5. NAME OF DRILLER: Karis Vandehey	6. MANUFACTURER'S DESIGNATION OF DRILL: STRATA PROBE	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2"x3' SS split spoons; 6" SS sleeves; PID - 10.6 eV	8. HOLE LOCATION: SEE MAP	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 21 MAY 1998	11. DATE COMPLETED: 21 MAY 1998
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NONE @ TD	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: —	
14. TOTAL DEPTH OF HOLE: 18'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
SOIL	✓	✓	Semi VOLs	Expl.	—	28/36

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	bentonite	—	—	Lee Scott Stimson

LOCATION SKETCH/COMMENTS

SCALE:

PROJECT	HOLE NO.
AOC-RITA'S DRAW	RITA-02

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: RITA-02

PROJECT: AOC- RITA'S DRAW

INSPECTOR: L. S. STEVENSON

SHEET ___ OF ___ 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 COUNT (g)	REMARKS (h)
		SILT, white-pink (5YR8/2), dry, firm ML					
	1		0				
	2		0		RITA2-2		
	3		0				
	4	SAND, tan (5Y 8/6), dry, firm SM	0				
	5	SILT, white (2.5Y 8/1), dry, firm ML	0		RITA-2-5		
	6		0				
	7		0				
	8		0				
	9		0				
	10	silty v fine SAND, orange (10 YR 7/8), dry, hard SM	0				
	11		0				
	12	SAND, gray (10 YR 7/2), dry, hard SP	0		RITA-2-12		
	13		0				
	14		0				
	15	SILT, pink (5YR 8/3), dry, hard ML	0				
	16		0				
	17		0				
	18		0		RITA2-18		Refusal @ 18'. tr. sand in shoe at last sample (~17.9')

PROJECT: AOC- RITA'S DRAW

HOLE NO. RITA-02

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: RITA-03
1. COMPANY NAME: FLUOR DANIEL GTI	2. DRILL SUBCONTRACTOR: TEG	SHEET 1 OF 2 SHEETS
3. PROJECT: AOC- RITA'S DRAW	4. LOCATION: HOLLOMAN AFB, NM	
5. NAME OF DRILLER: Karis Vandehey	6. MANUFACTURER'S DESIGNATION OF DRILL: STRATAPROBE	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2"x3' SS split spoons w/ 6" SS sleeves; PID- 10.6 eV; peristaltic pump w/ 3'x1"x0.006 SS sample screen	8. HOLE LOCATION: SEE MAP	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 21 MAY 1998	11. DATE COMPLETED: 21 MAY 1998
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: 6.5'	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: —	
14. TOTAL DEPTH OF HOLE: 9'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
soil / water	✓	✓	Semi Vols	Expl.		100 %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	bentonite	—	—	Lee Scott Stevenson

LOCATION SKETCH/COMMENTS

SCALE:

PROJECT	HOLE NO.
AOC- RITA'S DRAW	RITA-03

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: RITA-03

PROJECT: AOC-RITA'S DRAW

INSPECTOR: L. S. STEVENSON

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 COUNT (g)	REMARKS (h)
	1	clayey SAND, brown (5YR 5/6), moist, hard, sl. plastic SC					
	2		0		RITA-3-2		
	3	fine SAND, white (10YR 8/1) tr. moisture, hard SP					
	4						
	5	silty CLAY, brown (5YR 5/6) tr. moisture, v. hard, gyp. cemented CL	0				
	6	SILT, gray/white (5YR 8/1), moist, very hard ML					▽ water @ ≈ 6.5'
	7				RITA-3-GW7		Sample screen 6' to 9'
	8	clayey SILT, gray (5YR 7/1), wet, very soft ML					
	9	SAND w/ silt, orange (5YR 7/6), wet, hard (brittle), cemented SM					

PROJECT: AOC-RITA'S DRAW

HOLE NO. RITA-03

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT	
HOLE NUMBER	RITA-04
1. COMPANY NAME	FLUOR DANIEL GTI
2. DRILL SUBCONTRACTOR	TEG
SHEET / OF SHEETS	1 OF 2
3. PROJECT	AOC- RITA'S DRAW
4. LOCATION	HOLLOMAN AFB,
5. NAME OF DRILLER	Karis Vandehey
6. MANUFACTURER'S DESIGNATION OF DRILL	STRATAPROBE
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	2"x3' SS split spoons; 6" SS sleeves; ~~3'x1"x~~ 2'·1"x0.010 PVC screen
8. HOLE LOCATION	SEE MAP
9. SURFACE ELEVATION	
10. DATE STARTED	21 MAY 1998
11. DATE COMPLETED	21 MAY 1998
12. OVERBURDEN THICKNESS	NA
13. DEPTH DRILLED INTO ROCK	NA
14. TOTAL DEPTH OF HOLE	10'
15. DEPTH GROUNDWATER ENCOUNTERED	7.5'
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	—
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	—

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
water, soil	✓	✓	Semi. Vols	Expl.		7/12

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	bentonite	—	—	Lee Scott Stineman

LOCATION SKETCH/COMMENTS

SCALE:

PROJECT	HOLE NO.
AOC-RITA'S DRAW	RITA-04

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: RITA-04

PROJECT: AOC-RITA'S DRAW

INSPECTOR: L. S. STEVENSON

SHEET ___ OF ___ 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 COUNT (g)	REMARKS (h)
	1	Loose windblown & alluvial materials					2/6 recovery
	2	SILT, brown (5YR5/6) moist, hard, w/ gyp crystals, mod plastic ML			RITA-4-2		
	3		0				
	4	CLAY w/ silt, brown (5YR6/6), moist, hard, mod plastic. CL					
	5	fine SAND, white-pink (5YR 8/2), dry, very hard, v. uniform grain. SP	0				
	6		0				
	7	SILT, brown (5YR 6/6), moist, firm ML					▽ water @ 7.5'
	8	SAND, SILT, CLAY mix, gray, brown (5YR 6/2) wet, firm, sl. plastic ML	0		RITA-4-8 + RITA-4-8 CWB		screen 5'-10'
	9						
	10	fine SAND, brown (5YR6/4) wet, hard SP					

PROJECT: AOC-RITA'S DRAW

HOLE NO. RITA-04

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

ATTACHMENT C

DAILY QUALITY CONTROL REPORTS (DQCRs)

Foster Wheeler/Groundwater Technology
(FIRM NAME)

DAILY QUALITY CONTROL REPORT

Daily Report No.: 004 Date: 5-21-98
Contract No.: DACW45-94-D-0003
Project Title & Location: Rita's Draw
Weather: Overcast/Windy Precipitation: None In.: — Temp.: 85 Min.: 80 Max.: 90

1. Contract/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION WORK
C. Madewell	ET	10	Fluor Daniel GTI	Rita's Draw/DPT Sampling
L. Stevenson	ES	10	" " "	" " " "
K. Vandehey	Driller	10	JEG, Inc.	" " " "

2. Operating Plant or Equipment. (Not hand tools)

Plant/Equipment	Date of Arrival/ Departure	Date of Safety Check	Hours Used	Hours Idle	Hours Repair
DPT Rig	5-21-98	5-21-98	10		
Field Vehicle	↓	↓	10		
PID meter			10		
LEL "			10		

3. Work Performed Today: (Indicate location and description of work performed by prime and/or subcontractors. When network analysis is used, identify work by NAS activity number).

DPT Sampling at 4 Locations on Rita's Draw. Collected 4 soil samples for 2 soil Borings 2 soil samples at one boring and 1 soil sample at 1 boring. Collected water samples at #3 + #4 soil borings. Collected duplicate and MSD duplicate samples of water at #3. Abandoned all boring with bentonite.

4. Control Activities Performed:
Preparatory Inspections: (Identify feature of work and attached minutes).
Initial Inspections: (Identify feature of work and attach minutes).
Follow-Up Inspections: (List inspections performed, results of inspection compared to specification requirements, and corrective actions taken when deficiencies are noted).

NONE

5. Tests Performed and Test Results: (Identify test requirement by paragraph number in specifications and/or sheet number in plans).

Health + Safety Air Monitoring

6. Material Received: (Note inspection results and storage provided).

NONE

7. Submittals Reviewed: None

(a) Submittal No.	(b) Spec/Plan Reference	(c) By Whom	(d) Action

8. Off-site Surveillance Activities, Including Action Taken:

None

9. Job Safety: (List items checked, results, instructions and corrective actions taken).

Tailgate Safety meeting

10. Remarks: (Instructions received or given. Conflicts(s) in Plans and/or specifications. Delays encountered.).

None

Contractor 's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

[signature] 5-21-98

CQC System Manager Date

DAILY SAFETY MEETING

Project Name: Rita's Draw **Date:** 5-21-98

Project Number: 87220018050 3 **Presented by:** Charles Madewell

Check the Topics/Information Reviewed:

- [x] safety glasses, hard hat, safety boots
- [x] site safety plan review and location
- [x] equipment and machinery familiarization
- [x] employee Right-To-Know/MSDS location
- [x] open pits, excavations, and site hazards
- [x] vehicle safety and driving/road conditions
- [x] portable tool safety and awareness
- [x] overhead utility locations and clearance
- [x] first aid, safety, and PPE location
- [x] sharp object, rebar, and scrap metal hazards
- [x] safety is everyone's responsibility
- [ ] latex gloves inner/nitrile gloves outer
- [ ] excavation/trenching inspections/documentation
- [ ] full face respirators with proper cartridges
- [x] upgrade to level c at: PID (___ eV) > 5 ppm
- [x] work stoppage at: PID(___ eV) > 25 ppm, % LEL > 10%
- [x] driller killswitch works
- [x] slips, trips, and falls
- [x] directions to hospital
- [ ] anticipated visitors
- [ ] electrical ground fault
- [ ] public safety and fences
- [ ] excavator swing and loading
- [x] orderly site and housekeeping
- [ ] smoking in designated areas
- [x] leather gloves for protection
- [x] effects of the night before
- [x] vibration related injuries
- [x] fire extinguisher locations
- [x] eye wash station locations
- [x] decontamination procedures
- [x] daily work scope
- [x] emergency protocol
- [ ] parking and laydown
- [ ] hot work permits
- [x] strains and sprains
- [x] noise hazards
- [x] no horseplay
- [x] heat and cold stress
- [x] backing up hazards
- [x] accidents are costly
- [ ] dust and vapor control
- [ ] refueling procedures
- [ ] confined space entry
- [ ] flying debris hazards

Discussion/Comments/Follow-up Actions: Firing Range in area

NAME	SIGNATURE	COMPANY
Charles Madewell	[signature]	FDGTI
KARES VANDEHEY	[signature]	TEG
SCOTT STEVENSON	[signature]	FDGTI

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

DRILLING SAFETY CHECKLIST
"Look up and Live"

Site Name Ritter Draw

Project # 87220018 0503

Your Name Charles Madewell

Drillers Name Karis VanDiehey

Signature [signature]

Signature [signature] (optional)

Do not proceed with today's work until this checklist is completed

✓ Are your sub-contractors wearing Level D personal protection equipment?
- ✓ Hard Hats
- ✓ Safety Glasses
- ✓ Ear Protection
- ✓ Steel-Toed Boots

✓ Have you designated a smoking and eating area?

✓ Have you completed a Tailgate Safety Meeting?

✓ Has the Health and Safety Plan (HASP) been review and signed?

✓ Have you identified where the nearest pay phone and emergency equipment is located?

✓ Do you have a copy of the Utilities Locate Checklist?

✓ Do you have enough barricades/cones?

✓ Have the utilities been marked out?

Have you notified the Site/Project Manager if the utilities have not been marked?
- ____ pink: temporary survey markings
- ____ yellow: natural gas, oil, steam
- ____ orange: communications
- ____ white: proposed excavation/boring locations
- ____ green: sewer
- ____ blue: water
- ____ red: electric

Are your borings:
- ____ 10/20 feet away from overhead lines (shielded and unshielded respectively)?
- ____ 5 feet away from non-natural gas utilities?
- ____ 10 feet away from natural gas lines?
- ____ 3 feet away from concrete/asphalt scars/joints or repaved areas?

✓ Are you prepared to hand dig to 5 feet?

✓ Have any fiber optic lines been identified on site?

____ If so, do you have a copy of the fiber optics plan?

____ Is someone from Health and Safety and the Fiber Optics Company involved?

✓ Are your borings a minimum of 15 feet away from the fiber optic line mark outs?

✓ Do you have a copy of all access agreements?

✓ Have you inspected the cable/rope on the drill rig?

✓ Have you checked the "kill" switches on the drill rig?

✓ Has the driller showed you that all the gauges, levers, safety devices, and switches are working properly?

✓ Have you checked the rig for hydraulic fluid/oil leaks?

✓ Are all the visible belts and hoses in good working condition?

✓ Have you eliminated all tripping hazards to the best of your ability?

✓ Has your driller and his helper removed all of their jewelry?

✓ Are you prepared to monitor for vapors?

✓ Have you calibrated your PID/FID and O_2/LEL?

✓ Is someone CPR qualified in case of an emergency?

✓ Do your drillers have all the supplies required to complete today's activities?

AIR MONITORING DATA									Today's Date: 5-21-98
Project/Task Name: Rita's Draw / Field									Project/Task Numbers: 872200180503
Form Completed By: (print name) Charles Madewell									(signature) (date)
Time	Location	Ionization Detector Reading		Explosimeter Reading		Other Instruments (detector tubes, dustmonitor, etc.)			Comments
		FID	PID	%LEL	CO_2	(type/units)	(type/units)	(type/units)	
0840	Rita SB-1		0	0	20.9				
1015	SB-2.		0	0	20.9				
1130	SB-4		0	0	20.9				
1245	SB-3		0	0	20.9				

Foster Wheeler/Groundwater Technology
(FIRM NAME)

DAILY QUALITY CONTROL REPORT

Daily Report No.: 006 Date: 5-23-98
Contract No.: DACW45-94-D-0003
Project Title & Location: LTO Program
Weather: Sunny Precipitation: None In.: — Temp.: 85 Min.: 75 Max.: 90

1. Contract/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION WORK
Maddewell	ET	5	Fluor Daniel GTI	LTO Program - O'Club + BX
L. Stevenson	E.S.	5	" " "	" " " "
Vandeley	Driller	5	TEG, Inc	" " " "

Operating Plant or Equipment. (Not hand tools)

Plant/Equipment	Date of Arrival/ Departure	Date of Safety Check	Hours Used	Hours Idle	Hours Repair
DPT Rig	5-23-98	5-23-98	5		
3/4 Vehicle	↓	↓	5		
PID meter	↓	↓	5		
HEL ↓	↓	↓	5		

Work Performed Today: (Indicate location and description of work performed by prime and/or subcontractors. When network analysis is used, identify work by NAS activity number).

DPT Sampling at O'Club 3 points + BX Station 3 points
Log + screened soil. handed over soil to FWENC for
collection.

Collected waste Drum water Sample

4. Control Activities Performed:
Preparatory Inspections: (Identify feature of work and attached minutes).
Initial Inspections: (Identify feature of work and attach minutes).
Follow-Up Inspections: (List inspections performed, results of inspection compared to specification requirements, and corrective actions taken when deficiencies are noted).

None

5. Tests Performed and Test Results: (Identify test requirement by paragraph number in specifications and/or sheet number in plans).

Health + Safety Air Monitoring

6. Material Received: (Note inspection results and storage provided).

None

7. Submittals Reviewed: None

(a) Submittal No.	(b) Spec/Plan Reference	(c) By Whom	(d) Action

8. Off-site Surveillance Activities, Including Action Taken:

None

9. Job Safety: (List items checked, results, instructions and corrective actions taken).

Tailgate Safety meeting

10. Remarks: (Instructions received or given. Conflicts(s) in Plans and/or specifications. Delays encountered.).

None

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

5-23-98

CQC System Manager Date

DAILY SAFETY MEETING

Project Name: LTU Program **Date:** 5-23-98

Project Number: 872200160302 **Presented by:** Charles Madewell

Check the Topics/Information Reviewed:

- [x] safety glasses, hard hat, safety boots
- [x] site safety plan review and location
- [x] equipment and machinery familiarization
- [x] employee Right-To-Know/MSDS location
- [x] open pits, excavations, and site hazards
- [x] vehicle safety and driving/road conditions
- [x] portable tool safety and awareness
- [x] overhead utility locations and clearance
- [x] first aid, safety, and PPE location
- [x] sharp object, rebar, and scrap metal hazards
- [x] safety is everyone's responsibility
- [ ] latex gloves inner/nitrile gloves outer
- [ ] excavation/trenching inspections/documentation
- [ ] full face respirators with proper cartridges
- [x] upgrade to level c at: PID (___ eV) > 5 ppm
- [x] work stoppage at: PID(___ eV) > 25 ppm, % LEL > 10%
- [x] driller killswitch works
- [x] slips, trips, and falls
- [x] directions to hospital
- [ ] anticipated visitors
- [ ] electrical ground fault
- [x] public safety and fences
- [ ] excavator swing and loading
- [x] orderly site and housekeeping
- [ ] smoking in designated areas
- [x] leather gloves for protection
- [x] effects of the night before
- [x] vibration related injuries
- [x] fire extinguisher locations
- [x] eye wash station locations
- [ ] decontamination procedures
- [x] daily work scope
- [x] emergency protocol
- [ ] parking and laydown
- [ ] hot work permits
- [x] strains and sprains
- [x] noise hazards
- [x] no horseplay
- [x] heat and cold stress
- [x] backing up hazards
- [x] accidents are costly
- [ ] dust and vapor control
- [ ] refueling procedures
- [ ] confined space entry
- [ ] flying debris hazards

Discussion/Comments/Follow-up Actions: H_2S at OC

NAME	SIGNATURE	COMPANY
Charles Madewell	[signature]	FDGII
Richard Vandehey	[signature]	TFR
Scott Stevenson	[signature]	FDGII
JAMES CLARK	[signature]	FWENC

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

DRILLING SAFETY CHECKLIST
"Look up and Live"

Site Name LTO Program Project # 8722001 60302

Your Name Charles Madewell Drillers Name KARL VANDEHEY (optional)

Signature [illegible] Signature [illegible]

Do not proceed with today's work until this checklist is completed

✓ Are your sub-contractors wearing Level D personal protection equipment?
- ✓ Hard Hats
- ✓ Safety Glasses
- ✓ Ear Protection
- ✓ Steel-Toed Boots

✓ Have you designated a smoking and eating area?
✓ Have you completed a Tailgate Safety Meeting?
✓ Has the Health and Safety Plan (HASP) been review and signed?
✓ Have you identified where the nearest pay phone and emergency equipment is located?
✓ Do you have a copy of the Utilities Locate Checklist?
✓ Do you have enough barricades/cones?
✓ Have the utilities been marked out?

Have you notified the Site/Project Manager if the utilities have not been marked?
- ____ pink: temporary survey markings
- ____ yellow: natural gas, oil, steam
- ____ orange: communications
- ____ white: proposed excavation/boring locations
- ____ green: sewer
- ____ blue: water
- ____ red: electric

Are your borings:
- ✓ 10/20 feet away from overhead lines (shielded and unshielded respectively)?
- ✓ 5 feet away from non-natural gas utilities?
- ✓ 10 feet away from natural gas lines?
- ✓ 3 feet away from concrete/asphalt scars/joints or repaved areas?

✓ Are you prepared to hand dig to 5 feet?
✓ Have any fiber optic lines been identified on site?
✓ If so, do you have a copy of the fiber optics plan?
✓ Is someone from Health and Safety and the Fiber Optics Company involved?
✓ Are your borings a minimum of 15 feet away from the fiber optic line mark outs?
✓ Do you have a copy of all access agreements?
✓ Have you inspected the cable/rope on the drill rig?
✓ Have you checked the "kill" switches on the drill rig?
✓ Has the driller showed you that all the gauges, levers, safety devices, and switches are working properly?
✓ Have you checked the rig for hydraulic fluid/oil leaks?
✓ Are all the visible belts and hoses in good working condition?
✓ Have you eliminated all tripping hazards to the best of your ability?
✓ Has your driller and his helper removed all of their jewelry?
✓ Are you prepared to monitor for vapors?
✓ Have you calibrated your PID/FID and O_2/LEL?
✓ Is someone CPR qualified in case of an emergency?
✓ Do your drillers have all the supplies required to complete today's activities?

DAILY AIR MONITORING INSTRUMENT CALIBRATION & REFERENCE STANDARD CHECKS

Project/Task Name: SS-39/LTO/R.Hab Draw : Field

Project/Task Numbers: 872200110306/872200160302/872200180503

Form Completed By: Charles Madewell (print name) (signature) (date)

DATE	TIME	AIR MONITORING INSTRUMENT			BATTERY CHECK		REFERENCE (SPAN) GAS		UNADJUSTED INSTRUMENT READING	CALIBRATION	
		TYPE	LAMP eV	SERIAL #	OK	LOW	TYPE	CONCENTRATION		OK	ADJUSTMENT NEED
5-18-98	0930	PID	10.6	101335	✓		Isobutylene	97 ppm	97.1	✓	
↓	↓	LEL	—	9529181	✓		Hexane	25 %	25	✓	
5-19-98	0820	PID	10.6	101335	✓		Isobutylene	97 ppm	96.9	✓	
↓	↓	LEL	—	9529181	✓		Hexane	25 %	25	✓	
5-20-98	0745	PID	10.6	101335	✓		Isobutylene	97 ppm	97.2	✓	
↓	↓	LEL	—	9529181	✓		Hexane	25 %	25	✓	
5-21-98	0715	PID	10.6	101335	✓		Isobutylene	97 ppm	96.9	✓	
↓	↓	LEL	—	9529181	✓		Hexane	25 %	25	✓	
5-22-98	0730	PID	10.6	101335	✓		Isobutylene	97 pp	97.2	✓	
↓	↓	LEL	—	9529181	✓		Hexane	25 %	24.5	✓	

COMMENTS:

DAILY AIR MONITORING INSTRUMENT CALIBRATION & REFERENCE STANDARD CHECKS

Project/Task Name: SS-39/LTO/Ritt'l & Draw: Field

Project/Task Numbers: 872200110306/872200160302/872200180503

Form Completed By: (print name) Charles Maderwell (signature) (date)

DATE	TIME	AIR MONITORING INSTRUMENT			BATTERY CHECK		REFERENCE (SPAN) GAS		UNADJUSTED INSTRUMENT READING	CALIBRATION	
		TYPE	LAMP eV	SERIAL #	OK	LOW	TYPE	CONCENTRATION		OK	ADJUSTMENT REQ'D
5-23-98	0730	PID	10.6	101335	✓		Isobutylene	97ppm	96.8	✓	
↓	↓	LEL	—	9529181	✓		Hexane	25%	25	✓	

COMMENTS:

CONTAINERIZED MATERIALS LOG

PROJECT SS-39 / LTD Program / Rita's Draw

CITY Holloman **STATE** NM

Drum Number	Well or Boring Number	Material Type	Date Filled		Location Moved to	Final Disposition	Signatures of Movers
			First	Last			
001	SS-39	Purge Water-4	5-19-98				
"	SS-39	Purge Water-2	5-20-98				
"	SS-39 LTD	Decon H_2O-8	5-20-98				
"	RITA's Draw	Decon H_2O-8	5-21-98				
"	SS-39 LTD	Decon H_2O-8	5-22-98				
"	LTD	Decon H_2O-10	5-23-98				

ATTACHMENT D

LABORATORY ANALYTICAL REPORTS

Quanterra

ANALYTICAL REPORT

Holloman AFB

Lot #: D8E230132

Mr. Chuck Schick

Fluor Daniel GTI

QUANTERRA INCORPORATED

Lindsay Breyer
Project Manager

July 18, 1998

Quanterra

Case Narrative

Method 8270B surrogates were out of control in sample D8E230132-011. The sample was reextracted and reanalyzed outside of holding time. The internal standard used for the reanalysis expired on the day of the analysis. A new standard was prepared but the recovery for perylene-D12 was abnormally low. The expired standard was used and the data were accepted.

Method 8330 laboratory control sample (LCS) recoveries for nitrobenzene and 2,4-dinitrotoluene were out of control. The recovery for 2,4-dinitrotoluene was in control in the matrix spike/matrix spike duplicate (MS/MSD). The recoveries for nitrobenzene in the LCS and the MS/MSD were within reason and the data were accepted.

With noted exceptions, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits.

Quanterra

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Standard Deliverable

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- Method/ Analyst Summary
- Sample Summary
- Analytical Results by Sample
- QC Data Association Summary
- Chain-of-Custody

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EXECUTIVE SUMMARY - Detection Highlights

D8E230132

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
RITA-1-2 05/21/98 09:00 001				
Arsenic	1.8 B,Q,D	2.0	mg/kg	SW846 6010B
Lead	1.9 Q,D	0.60	mg/kg	SW846 6010B
Antimony	1.8 B,Q,D	2.0	mg/kg	SW846 6010B
Aluminum	2270	20.0	mg/kg	SW846 6010B
	Qualifiers: Q,D,MSB			
Barium	26.6 Q,D	2.0	mg/kg	SW846 6010B
Calcium	164000	40.0	mg/kg	SW846 6010B
	Qualifiers: Q,D,MSB			
Cobalt	0.91	2.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Chromium	3.1 Q,D	2.0	mg/kg	SW846 6010B
Copper	1.4 B,Q,D	4.0	mg/kg	SW846 6010B
Iron	326	20.0	mg/kg	SW846 6010B
Potassium	484 B,Q,D	1000	mg/kg	SW846 6010B
Magnesium	2830 Q,D	40.0	mg/kg	SW846 6010B
Manganese	47.7 Q,D	2.0	mg/kg	SW846 6010B
Nickel	2.4 B,Q,D	8.0	mg/kg	SW846 6010B
Vanadium	8.5 Q,D	2.0	mg/kg	SW846 6010B
Zinc	6.2 Q,D	4.0	mg/kg	SW846 6010B
Acetone	15 J,B	20	ug/kg	SW846 8260A
Methylene chloride	4.7 J,B	5.0	ug/kg	SW846 8260A
RITA-1-9 05/21/98 09:12 002				
Arsenic	2.0 Q,D	2.0	mg/kg	SW846 6010B
Lead	5.1 Q,D	0.60	mg/kg	SW846 6010B
Antimony	1.5 B,Q,D	2.0	mg/kg	SW846 6010B
Selenium	1.3 Q,D	1.0	mg/kg	SW846 6010B
Thallium	1.1 B,Q,D	2.0	mg/kg	SW846 6010B
Cadmium	0.37	1.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Aluminum	11800 Q,D	20.0	mg/kg	SW846 6010B
Barium	79.3 Q,D	2.0	mg/kg	SW846 6010B
Beryllium	0.61 Q,D	0.40	mg/kg	SW846 6010B
Calcium	154000	40.0	mg/kg	SW846 6010B
	Qualifiers: Q,D			
Cobalt	3.5 Q,D	2.0	mg/kg	SW846 6010B
Chromium	14.8 Q,D	2.0	mg/kg	SW846 6010B
Copper	5.0 Q,D	4.0	mg/kg	SW846 6010B
Iron	2240	20.0	mg/kg	SW846 6010B
Potassium	3150 Q,D	1000	mg/kg	SW846 6010B
Magnesium	7290 Q,D	40.0	mg/kg	SW846 6010B
Manganese	99.3 Q,D	2.0	mg/kg	SW846 6010B

(Continued on next page)

Quanterra

EXECUTIVE SUMMARY - Detection Highlights

D8E230132

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
RITA-1-9 05/21/98 09:12 002				
Sodium	798 B,Q,D	1000	mg/kg	SW846 6010B
Nickel	11.0 Q,D	8.0	mg/kg	SW846 6010B
Vanadium	21.0 Q,D	2.0	mg/kg	SW846 6010B
Zinc	25.8 Q,D	4.0	mg/kg	SW846 6010B
Acetone	16 J	20	ug/kg	SW846 8260A
RITA-1-15 05/21/98 09:30 003				
Arsenic	1.5 B,Q,D	2.0	mg/kg	SW846 6010B
Lead	5.3 Q,D	0.60	mg/kg	SW846 6010B
Antimony	1.7 B,Q,D	2.0	mg/kg	SW846 6010B
Cadmium	0.39	1.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Aluminum	12600 Q,D	20.0	mg/kg	SW846 6010B
Barium	29.0 Q,D	2.0	mg/kg	SW846 6010B
Beryllium	0.67 Q,D	0.40	mg/kg	SW846 6010B
Calcium	179000	40.0	mg/kg	SW846 6010B
	Qualifiers: Q,D			
Cobalt	4.1 Q,D	2.0	mg/kg	SW846 6010B
Chromium	14.5 Q,D	2.0	mg/kg	SW846 6010B
Copper	4.7 Q,D	4.0	mg/kg	SW846 6010B
Iron	6680	20.0	mg/kg	SW846 6010B
Potassium	3280 Q,D	1000	mg/kg	SW846 6010B
Magnesium	5600 Q,D	40.0	mg/kg	SW846 6010B
Manganese	232 Q,D	2.0	mg/kg	SW846 6010B
Sodium	1560 Q,D	1000	mg/kg	SW846 6010B
Nickel	11.5 Q,D	8.0	mg/kg	SW846 6010B
Vanadium	17.5 Q,D	2.0	mg/kg	SW846 6010B
Zinc	28.4 Q,D	4.0	mg/kg	SW846 6010B
Acetone	13 J	20	ug/kg	SW846 8260A
RITA-1-20 05/21/98 09:50 004				
Arsenic	1.2 B,Q,D	2.0	mg/kg	SW846 6010B
Lead	0.39	0.60	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Antimony	1.9 B,Q,D	2.0	mg/kg	SW846 6010B
Aluminum	1390 Q,D	20.0	mg/kg	SW846 6010B
Barium	27.3 Q,D	2.0	mg/kg	SW846 6010B
Calcium	146000	40.0	mg/kg	SW846 6010B
	Qualifiers: Q,D			
Chromium	4.2 Q,D	2.0	mg/kg	SW846 6010B
Iron	1190	20.0	mg/kg	SW846 6010B

(Continued on next page)

Quanterra

EXECUTIVE SUMMARY - Detection Highlights

D8E230132

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
RITA-1-20 05/21/98 09:50 004				
Potassium	325 B,Q,D	1000	mg/kg	SW846 6010B
Magnesium	735 Q,D	40.0	mg/kg	SW846 6010B
Manganese	12.9 Q,D	2.0	mg/kg	SW846 6010B
Nickel	2.9 B,Q,D	8.0	mg/kg	SW846 6010B
Vanadium	2.4 Q,D	2.0	mg/kg	SW846 6010B
Zinc	3.8 B,Q,D	4.0	mg/kg	SW846 6010B
Acetone	10 J	20	ug/kg	SW846 8260A
RITA-2-2 05/21/98 10:35 005				
Antimony	2.6 B,Q,D	5.0	mg/kg	SW846 6010B
Thallium	1.9 B,Q,D	5.0	mg/kg	SW846 6010B
Aluminum	478 Q,D	20.0	mg/kg	SW846 6010B
Barium	10.7 Q,D	2.0	mg/kg	SW846 6010B
Calcium	199000	40.0	mg/kg	SW846 6010B
	Qualifiers: Q,D			
Iron	888	20.0	mg/kg	SW846 6010B
Magnesium	611 Q,D	40.0	mg/kg	SW846 6010B
Manganese	5.3 Q,D	2.0	mg/kg	SW846 6010B
Vanadium	1.1 B,Q,D	2.0	mg/kg	SW846 6010B
Zinc	1.3 B,Q,D	4.0	mg/kg	SW846 6010B
Acetone	17 J	20	ug/kg	SW846 8260A
RITA-2-5 05/21/98 10:40 006				
Lead	0.71 Q,D	0.30	mg/kg	SW846 6010B
Cadmium	0.084	0.50	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Aluminum	1680 Q,D	10.0	mg/kg	SW846 6010B
Barium	15.4 Q,D	1.0	mg/kg	SW846 6010B
Beryllium	0.11	0.20	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Calcium	15400 Q,D	20.0	mg/kg	SW846 6010B
Cobalt	0.46	1.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Chromium	3.9 Q,D	1.0	mg/kg	SW846 6010B
Copper	0.49	2.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Iron	1160	10.0	mg/kg	SW846 6010B
Potassium	388 B,Q,D	500	mg/kg	SW846 6010B
Magnesium	764 Q,D	20.0	mg/kg	SW846 6010B
Manganese	17.1 Q,D	1.0	mg/kg	SW846 6010B
Nickel	1.8 B,Q,D	4.0	mg/kg	SW846 6010B

(Continued on next page)

Quanterra

EXECUTIVE SUMMARY - Detection Highlights

D8E230132

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
RITA-2-5 05/21/98 10:40 006				
Vanadium	3.0 Q,D	1.0	mg/kg	SW846 6010B
Zinc	3.1 Q,D	2.0	mg/kg	SW846 6010B
Acetone	11 J	20	ug/kg	SW846 8260A
RITA-2-12 05/21/98 10:55 007				
Arsenic	17.4 Q,D	2.0	mg/kg	SW846 6010B
Lead	0.79 Q,D	0.60	mg/kg	SW846 6010B
Antimony	1.7 B,Q,D	2.0	mg/kg	SW846 6010B
Selenium	0.56	1.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Cadmium	0.17	1.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Aluminum	944 Q,D	20.0	mg/kg	SW846 6010B
Barium	9.3 Q,D	2.0	mg/kg	SW846 6010B
Calcium	168000	40.0	mg/kg	SW846 6010B
	Qualifiers: Q,D			
Cobalt	0.64	2.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Chromium	1.8 B,Q,D	2.0	mg/kg	SW846 6010B
Copper	0.78	4.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Iron	3940	20.0	mg/kg	SW846 6010B
Potassium	259 B,Q,D	1000	mg/kg	SW846 6010B
Magnesium	468 Q,D	40.0	mg/kg	SW846 6010B
Manganese	9.6 Q,D	2.0	mg/kg	SW846 6010B
Vanadium	22.8 Q,D	2.0	mg/kg	SW846 6010B
Zinc	2.6 B,Q,D	4.0	mg/kg	SW846 6010B
Acetone	20	20	ug/kg	SW846 8260A
RITA-2-12-DUP 05/21/98 10:55 008				
Arsenic	9.1 Q,D	2.0	mg/kg	SW846 6010B
Antimony	1.6 B,Q,D	2.0	mg/kg	SW846 6010B
Selenium	0.53	1.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Cadmium	0.16	1.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Silver	0.75	2.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Aluminum	979 Q,D	20.0	mg/kg	SW846 6010B
Barium	9.2 Q,D	2.0	mg/kg	SW846 6010B
Calcium	164000	40.0	mg/kg	SW846 6010B
	Qualifiers: Q,D			

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Quanterra

EXECUTIVE SUMMARY - Detection Highlights

D8E230132

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
RITA-2-12-DUP 05/21/98 10:55 008				
Cobalt	1.3 B,Q,D	2.0	mg/kg	SW846 6010B
Chromium	2.4 Q,D	2.0	mg/kg	SW846 6010B
Copper	1.2 B,Q,D	4.0	mg/kg	SW846 6010B
Iron	5200	20.0	mg/kg	SW846 6010B
Potassium	355 B,Q,D	1000	mg/kg	SW846 6010B
Magnesium	471 Q,D	40.0	mg/kg	SW846 6010B
Manganese	11.1 Q,D	2.0	mg/kg	SW846 6010B
Nickel	1.6 B,Q,D	8.0	mg/kg	SW846 6010B
Vanadium	16.9 Q,D	2.0	mg/kg	SW846 6010B
Zinc	3.3 B,Q,D	4.0	mg/kg	SW846 6010B
Acetone	23	20	ug/kg	SW846 8260A
RITA-2-18 05/21/98 11:10 009				
Arsenic	1.1 B,Q,D	2.0	mg/kg	SW846 6010B
Lead	0.89 Q,D	0.60	mg/kg	SW846 6010B
Antimony	1.6 B,Q,D	2.0	mg/kg	SW846 6010B
Cadmium	0.13	1.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Aluminum	2350 Q,D	20.0	mg/kg	SW846 6010B
Barium	22.0 Q,D	2.0	mg/kg	SW846 6010B
Calcium	136000	40.0	mg/kg	SW846 6010B
	Qualifiers: Q,D			
Chromium	1.8 B,Q,D	2.0	mg/kg	SW846 6010B
Iron	1480	20.0	mg/kg	SW846 6010B
Potassium	479 B,Q,D	1000	mg/kg	SW846 6010B
Magnesium	1090 Q,D	40.0	mg/kg	SW846 6010B
Manganese	16.7 Q,D	2.0	mg/kg	SW846 6010B
Nickel	1.5 B,Q,D	8.0	mg/kg	SW846 6010B
Vanadium	3.6 Q,D	2.0	mg/kg	SW846 6010B
Zinc	4.9 Q,D	4.0	mg/kg	SW846 6010B
Acetone	25	20	ug/kg	SW846 8260A
RITA-4-2 05/21/98 11:50 010				
Arsenic	0.80	1.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Lead	2.0 Q,D	0.30	mg/kg	SW846 6010B
Antimony	0.90	1.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Selenium	0.61 Q,D	0.50	mg/kg	SW846 6010B
Cadmium	0.17	0.50	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			

(Continued on next page)

Quanterra

EXECUTIVE SUMMARY - Detection Highlights

D8E230132

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
RITA-4-2 05/21/98 11:50 010				
Aluminum	3540 Q,D	10.0	mg/kg	SW846 6010B
Barium	10.2 Q,D	1.0	mg/kg	SW846 6010B
Beryllium	0.25 Q,D	0.20	mg/kg	SW846 6010B
Calcium	67600 Q,D	20.0	mg/kg	SW846 6010B
Cobalt	1.4 Q,D	1.0	mg/kg	SW846 6010B
Chromium	4.5 Q,D	1.0	mg/kg	SW846 6010B
Copper	1.9 B,Q,D	2.0	mg/kg	SW846 6010B
Iron	3960	10.0	mg/kg	SW846 6010B
Potassium	955 Q,D	500	mg/kg	SW846 6010B
Magnesium	2530 Q,D	20.0	mg/kg	SW846 6010B
Manganese	80.8 Q,D	1.0	mg/kg	SW846 6010B
Sodium	920 Q,D	500	mg/kg	SW846 6010B
Nickel	3.9 B,Q,D	4.0	mg/kg	SW846 6010B
Vanadium	7.0 Q,D	1.0	mg/kg	SW846 6010B
Zinc	9.0 Q,D	2.0	mg/kg	SW846 6010B
Acetone	16 J	20	ug/kg	SW846 8260A
RITA-4-8 05/21/98 12:15 011				
Arsenic	1.4 B,Q,D	2.0	mg/kg	SW846 6010B
Lead	1.2 Q,D	0.60	mg/kg	SW846 6010B
Antimony	1.7 B,Q,D	2.0	mg/kg	SW846 6010B
Cadmium	0.15	1.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Aluminum	2220 Q,D	20.0	mg/kg	SW846 6010B
Barium	4.4 Q,D	2.0	mg/kg	SW846 6010B
Calcium	136000	40.0	mg/kg	SW846 6010B
	Qualifiers: Q,D			
Cobalt	1.3 B,Q,D	2.0	mg/kg	SW846 6010B
Chromium	1.9 B,Q,D	2.0	mg/kg	SW846 6010B
Copper	1.8 B,Q,D	4.0	mg/kg	SW846 6010B
Iron	2500	20.0	mg/kg	SW846 6010B
Potassium	540 B,Q,D	1000	mg/kg	SW846 6010B
Magnesium	2600 Q,D	40.0	mg/kg	SW846 6010B
Manganese	23.8 Q,D	2.0	mg/kg	SW846 6010B
Sodium	1310 Q,D	1000	mg/kg	SW846 6010B
Nickel	2.5 B,Q,D	8.0	mg/kg	SW846 6010B
Vanadium	5.2 Q,D	2.0	mg/kg	SW846 6010B
Zinc	7.5 Q,D	4.0	mg/kg	SW846 6010B
Acetone	18 J	20	ug/kg	SW846 8260A
2-Butanone (MEK)	8.4 J	20	ug/kg	SW846 8260A

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Quanterra

EXECUTIVE SUMMARY - Detection Highlights

D8E230132

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
RITA-3-2 05/21/98 13:00 012				
Arsenic	0.98	2.0	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Lead	0.48	0.60	mg/kg	SW846 6010B
	Qualifiers: B,Q,D			
Antimony	1.6 B,Q,D	2.0	mg/kg	SW846 6010B
Aluminum	994 Q,D	20.0	mg/kg	SW846 6010B
Barium	10.9 Q,D	2.0	mg/kg	SW846 6010B
Calcium	146000	40.0	mg/kg	SW846 6010B
	Qualifiers: Q,D			
Chromium	1.5 B,Q,D	2.0	mg/kg	SW846 6010B
Iron	569	20.0	mg/kg	SW846 6010B
Potassium	208 B,Q,D	1000	mg/kg	SW846 6010B
Magnesium	718 Q,D	40.0	mg/kg	SW846 6010B
Manganese	15.7 Q,D	2.0	mg/kg	SW846 6010B
Sodium	480 B,Q,D	1000	mg/kg	SW846 6010B
Nickel	1.2 B,Q,D	8.0	mg/kg	SW846 6010B
Vanadium	2.1 Q,D	2.0	mg/kg	SW846 6010B
Zinc	3.3 B,Q,D	4.0	mg/kg	SW846 6010B
Acetone	12 J	20	ug/kg	SW846 8260A
RITA-4-GW-8 05/21/98 12:30 013				
Antimony	0.032	0.020	mg/L	SW846 6010B
Arsenic	0.017 B	0.020	mg/L	SW846 6010B
Calcium	799	1.0	mg/L	SW846 6010B
Copper	0.014 B	0.10	mg/L	SW846 6010B
Iron	0.63	0.50	mg/L	SW846 6010B
Potassium	54.6	25.0	mg/L	SW846 6010B
Magnesium	1660	1.0	mg/L	SW846 6010B
Manganese	0.36	0.050	mg/L	SW846 6010B
Sodium	9490	25.0	mg/L	SW846 6010B
Benzene	0.27 J	1.0	ug/L	SW846 8260A
Ethylbenzene	0.22 J	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	0.72 J	5.0	ug/L	SW846 8260A
Toluene	0.29 J	1.0	ug/L	SW846 8260A
Xylenes (total)	0.88 J	1.0	ug/L	SW846 8260A
2-Butanone (MEK)	1.2 J	5.0	ug/L	SW846 8260A
RITA-3-GW-7 05/21/98 14:30 014				
Antimony	0.034	0.020	mg/L	SW846 6010B
Arsenic	0.032	0.020	mg/L	SW846 6010B
Calcium	828	2.0	mg/L	SW846 6010B

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EXECUTIVE SUMMARY - Detection Highlights

D8E230132

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
RITA-3-GW-7 05/21/98 14:30 014				
Potassium	63.2	50.0	mg/L	SW846 6010B
Magnesium	1840	2.0	mg/L	SW846 6010B
Manganese	0.13	0.10	mg/L	SW846 6010B
Sodium	11600	50.0	mg/L	SW846 6010B
RITA-3-GWDP-7 05/21/98 14:30 015				
Antimony	0.036	0.020	mg/L	SW846 6010B
Arsenic	0.029	0.020	mg/L	SW846 6010B
Cadmium	0.0012 B	0.010	mg/L	SW846 6010B
Calcium	823	2.0	mg/L	SW846 6010B
Potassium	63.8	50.0	mg/L	SW846 6010B
Magnesium	1830	2.0	mg/L	SW846 6010B
Manganese	0.11	0.10	mg/L	SW846 6010B
Sodium	11600	50.0	mg/L	SW846 6010B
Vanadium	0.042 B	0.10	mg/L	SW846 6010B

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ANALYTICAL METHODS SUMMARY

D8E230132

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Nitroaromatics and Nitramines by HPLC	SW846 8330
Semivolatile Organic Compounds by GC/MS	SW846 8270B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260A

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

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METHOD / ANALYST SUMMARY

D8E230132

ANALYTICAL METHOD	ANALYST	ANALYST ID
SW846 6010B	Jennifer Oxelson	002720
SW846 6010B	Kaye Ryman	002885
SW846 7470A	Greg T. Brott	008463
SW846 7470A	Greg T. Brott	8463
SW846 7471A	Greg T. Brott	008463
SW846 7471A	Greg T. Brott	8463
SW846 8260A	Kerri Keller	002129
SW846 8260A	Mike G. Hoffman	001880
SW846 8270B	Deborah Coyle	001425
SW846 8270B	Deneen Spence	002495
SW846 8270B	Tom Claeys	001396
SW846 8330	Blake Besser	001148

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

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SAMPLE SUMMARY

D8E230132

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CHEQW	001	RITA-1-2	05/21/98	09:00
CHEQX	002	RITA-1-9	05/21/98	09:12
CHER0	003	RITA-1-15	05/21/98	09:30
CHER1	004	RITA-1-20	05/21/98	09:50
CHER2	005	RITA-2-2	05/21/98	10:35
CHER3	006	RITA-2-5	05/21/98	10:40
CHER4	007	RITA-2-12	05/21/98	10:55
CHER5	008	RITA-2-12-DUP	05/21/98	10:55
CHER6	009	RITA-2-18	05/21/98	11:10
CHER7	010	RITA-4-2	05/21/98	11:50
CHER8	011	RITA-4-8	05/21/98	12:15
CHERA	012	RITA-3-2	05/21/98	13:00
CHERC	013	RITA-4-GW-8	05/21/98	12:30
CHERE	014	RITA-3-GW-7	05/21/98	14:30
CHERF	015	RITA-3-GWDP-7	05/21/98	14:30

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-2

GC/MS Volatiles

Lot-Sample #...: D8E230132-001 **Work Order #...:** CHEQW102 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98
Prep Date.....: 06/02/98 **Analysis Date..:** 06/02/98
Prep Batch #...: 8176249 **Analysis Time..:** 16:15
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**15 J,B**	**20**	**ug/kg**
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	10	ug/kg
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg
1,1-Dichloroethane	ND	5.0	ug/kg
1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	ND	5.0	ug/kg
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	**4.7 J,B**	**5.0**	**ug/kg**
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
1,1,1-Trichloroethane	ND	5.0	ug/kg
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	ND	5.0	ug/kg
Vinyl chloride	ND	10	ug/kg
Xylenes (total)	ND	5.0	ug/kg
2-Butanone (MEK)	ND B	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(77 - 115)
4-Bromofluorobenzene	91	(90 - 113)
Toluene-d8	97	(86 - 115)

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-2

GC/MS Volatiles

Lot-Sample #...: D8E230132-001 **Work Order #...:** CHEQW102 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-9

GC/MS Volatiles

Lot-Sample #...: D8E230132-002 **Work Order #...:** CHEQX102 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:12 **Date Received..:** 05/23/98
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 14:05
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**16 J**	**20**	**ug/kg**
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	10	ug/kg
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg
1,1-Dichloroethane	ND	5.0	ug/kg
1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	ND	5.0	ug/kg
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
1,1,1-Trichloroethane	ND	5.0	ug/kg
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	ND	5.0	ug/kg
Vinyl chloride	ND	10	ug/kg
Xylenes (total)	ND	5.0	ug/kg
2-Butanone (MEK)	ND	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	87	(77 - 115)
4-Bromofluorobenzene	91	(90 - 113)
Toluene-d8	97	(86 - 115)

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-9

GC/MS Volatiles

Lot-Sample #...: D8E230132-002 **Work Order #...:** CHEQX102 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-15

GC/MS Volatiles

Lot-Sample #...: D8E230132-003 **Work Order #...:** CHER0102 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:30 **Date Received..:** 05/23/98
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 14:29
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**13 J**	**20**	**ug/kg**
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	10	ug/kg
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg
1,1-Dichloroethane	ND	5.0	ug/kg
1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	ND	5.0	ug/kg
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
1,1,1-Trichloroethane	ND	5.0	ug/kg
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	ND	5.0	ug/kg
Vinyl chloride	ND	10	ug/kg
Xylenes (total)	ND	5.0	ug/kg
2-Butanone (MEK)	ND	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(77 - 115)
4-Bromofluorobenzene	92	(90 - 113)
Toluene-d8	98	(86 - 115)

(Continued on next page)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-15

GC/MS Volatiles

Lot-Sample #...: D8E230132-003 **Work Order #...:** CHER0102 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-20

GC/MS Volatiles

Lot-Sample #...: D8E230132-004 **Work Order #...:** CHER1102 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:50 **Date Received..:** 05/23/98
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 14:53
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**10 J**	**20**	**ug/kg**
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	10	ug/kg
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg
1,1-Dichloroethane	ND	5.0	ug/kg
1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	ND	5.0	ug/kg
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
1,1,1-Trichloroethane	ND	5.0	ug/kg
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	ND	5.0	ug/kg
Vinyl chloride	ND	10	ug/kg
Xylenes (total)	ND	5.0	ug/kg
2-Butanone (MEK)	ND	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	89	(77 - 115)
4-Bromofluorobenzene	92	(90 - 113)
Toluene-d8	95	(86 - 115)

(Continued on next page)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-20

GC/MS Volatiles

Lot-Sample #...: D8E230132-004 **Work Order #...:** CHER1102 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-2

GC/MS Volatiles

Lot-Sample #...: D8E230132-005 **Work Order #...:** CHER2102 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:35 **Date Received..:** 05/23/98
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 15:17
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**17 J**	**20**	**ug/kg**
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	10	ug/kg
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg
1,1-Dichloroethane	ND	5.0	ug/kg
1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	ND	5.0	ug/kg
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
1,1,1-Trichloroethane	ND	5.0	ug/kg
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	ND	5.0	ug/kg
Vinyl chloride	ND	10	ug/kg
Xylenes (total)	ND	5.0	ug/kg
2-Butanone (MEK)	ND	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(77 - 115)
4-Bromofluorobenzene	91	(90 - 113)
Toluene-d8	95	(86 - 115)

(Continued on next page)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-2

GC/MS Volatiles

Lot-Sample #...: D8E230132-005 **Work Order #...:** CHER2102 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-5

GC/MS Volatiles

Lot-Sample #...: D8E230132-006 **Work Order #...:** CHER3102 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:40 **Date Received..:** 05/23/98
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 15:41
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**11 J**	**20**	**ug/kg**
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	10	ug/kg
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg
1,1-Dichloroethane	ND	5.0	ug/kg
1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	ND	5.0	ug/kg
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
1,1,1-Trichloroethane	ND	5.0	ug/kg
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	ND	5.0	ug/kg
Vinyl chloride	ND	10	ug/kg
Xylenes (total)	ND	5.0	ug/kg
2-Butanone (MEK)	ND	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(77 - 115)
4-Bromofluorobenzene	91	(90 - 113)
Toluene-d8	96	(86 - 115)

(Continued on next page)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-5

GC/MS Volatiles

Lot-Sample #...: D8E230132-006 **Work Order #...:** CHER3102 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-12

GC/MS Volatiles

Lot-Sample #...: D8E230132-007 **Work Order #...:** CHER4102 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:55 **Date Received..:** 05/23/98
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 16:04
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**20**	**20**	**ug/kg**
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	10	ug/kg
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg
1,1-Dichloroethane	ND	5.0	ug/kg
1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	ND	5.0	ug/kg
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
1,1,1-Trichloroethane	ND	5.0	ug/kg
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	ND	5.0	ug/kg
Vinyl chloride	ND	10	ug/kg
Xylenes (total)	ND	5.0	ug/kg
2-Butanone (MEK)	ND	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(77 - 115)
4-Bromofluorobenzene	92	(90 - 113)
Toluene-d8	97	(86 - 115)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-12-DUP

GC/MS Volatiles

Lot-Sample #...: D8E230132-008 **Work Order #...:** CHER5102 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:55 **Date Received..:** 05/23/98
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 16:28
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**23**	**20**	**ug/kg**
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	10	ug/kg
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg
1,1-Dichloroethane	ND	5.0	ug/kg
1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	ND	5.0	ug/kg
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
1,1,1-Trichloroethane	ND	5.0	ug/kg
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	ND	5.0	ug/kg
Vinyl chloride	ND	10	ug/kg
Xylenes (total)	ND	5.0	ug/kg
2-Butanone (MEK)	ND	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(77 - 115)
4-Bromofluorobenzene	90	(90 - 113)
Toluene-d8	98	(86 - 115)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-18

GC/MS Volatiles

Lot-Sample #...: D8E230132-009 **Work Order #...:** CHER6102 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 11:10 **Date Received..:** 05/23/98
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 16:52
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**25**	**20**	**ug/kg**
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	10	ug/kg
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg
1,1-Dichloroethane	ND	5.0	ug/kg
1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	ND	5.0	ug/kg
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
1,1,1-Trichloroethane	ND	5.0	ug/kg
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	ND	5.0	ug/kg
Vinyl chloride	ND	10	ug/kg
Xylenes (total)	ND	5.0	ug/kg
2-Butanone (MEK)	ND	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	89	(77 - 115)
4-Bromofluorobenzene	92	(90 - 113)
Toluene-d8	97	(86 - 115)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-2

GC/MS Volatiles

Lot-Sample #...: D8E230132-010 **Work Order #...:** CHER7102 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 11:50 **Date Received..:** 05/23/98
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 17:16
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**16 J**	**20**	**ug/kg**
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	10	ug/kg
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg
1,1-Dichloroethane	ND	5.0	ug/kg
1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	ND	5.0	ug/kg
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
1,1,1-Trichloroethane	ND	5.0	ug/kg
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	ND	5.0	ug/kg
Vinyl chloride	ND	10	ug/kg
Xylenes (total)	ND	5.0	ug/kg
2-Butanone (MEK)	ND	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(77 - 115)
4-Bromofluorobenzene	90	(90 - 113)
Toluene-d8	99	(86 - 115)

(Continued on next page)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-2

GC/MS Volatiles

Lot-Sample #...: D8E230132-010 **Work Order #...:** CHER7102 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-8

GC/MS Volatiles

Lot-Sample #...: D8E230132-011 **Work Order #...:** CHER8102 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 12:15 **Date Received..:** 05/23/98
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 17:40
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**18 J**	**20**	**ug/kg**
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	10	ug/kg
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg
1,1-Dichloroethane	ND	5.0	ug/kg
1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	ND	5.0	ug/kg
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
1,1,1-Trichloroethane	ND	5.0	ug/kg
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	ND	5.0	ug/kg
Vinyl chloride	ND	10	ug/kg
Xylenes (total)	ND	5.0	ug/kg
2-Butanone (MEK)	**8.4 J**	**20**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(77 - 115)
4-Bromofluorobenzene	91	(90 - 113)
Toluene-d8	97	(86 - 115)

(Continued on next page)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-8

GC/MS Volatiles

Lot-Sample #...: D8E230132-011 **Work Order #...:** CHER8102 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-2

GC/MS Volatiles

Lot-Sample #...: D8E230132-012 **Work Order #...:** CHERA102 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 13:00 **Date Received..:** 05/23/98
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 18:04
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**12 J**	**20**	**ug/kg**
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	10	ug/kg
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg
1,1-Dichloroethane	ND	5.0	ug/kg
1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	ND	5.0	ug/kg
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
1,1,1-Trichloroethane	ND	5.0	ug/kg
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	ND	5.0	ug/kg
Vinyl chloride	ND	10	ug/kg
Xylenes (total)	ND	5.0	ug/kg
2-Butanone (MEK)	ND	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	89	(77 - 115)
4-Bromofluorobenzene	92	(90 - 113)
Toluene-d8	98	(86 - 115)

(Continued on next page)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-2

GC/MS Volatiles

Lot-Sample #...: D8E230132-012 **Work Order #...:** CHERA102 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-GW-8

GC/MS Volatiles

Lot-Sample #...: D8E230132-013 **Work Order #...:** CHERC101 **Matrix.....:** WATER
Date Sampled...: 05/21/98 12:30 **Date Received..:** 05/23/98
Prep Date.....: 06/04/98 **Analysis Date..:** 06/04/98
Prep Batch #...: 8156305 **Analysis Time..:** 13:01
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	**0.27 J**	**1.0**	**ug/L**
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Chlorodibromomethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	**0.22 J**	**1.0**	**ug/L**
2-Hexanone	ND	5.0	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	**0.72 J**	**5.0**	**ug/L**
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	**0.29 J**	**1.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Xylenes (total)	**0.88 J**	**1.0**	**ug/L**
2-Butanone (MEK)	**1.2 J**	**5.0**	**ug/L**
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	100	(78 - 113)
4-Bromofluorobenzene	109	(88 - 113)
Toluene-d8	94	(90 - 108)

(Continued on next page)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-GW-8

GC/MS Volatiles

Lot-Sample #...: D8E230132-013 **Work Order #...:** CHERC101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-GW-7

GC/MS Volatiles

Lot-Sample #...: D8E230132-014 **Work Order #...:** CHERE101 **Matrix.....:** WATER
Date Sampled...: 05/21/98 14:30 **Date Received..:** 05/23/98
Prep Date.....: 06/04/98 **Analysis Date..:** 06/04/98
Prep Batch #...: 8156305 **Analysis Time..:** 13:22
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Chlorodibromomethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Xylenes (total)	ND	1.0	ug/L
2-Butanone (MEK)	ND	5.0	ug/L
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	100	(78 - 113)
4-Bromofluorobenzene	105	(88 - 113)
Toluene-d8	96	(90 - 108)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-GWDP-7

GC/MS Volatiles

Lot-Sample #...: D8E230132-015 **Work Order #...:** CHERF101 **Matrix.....:** WATER
Date Sampled...: 05/21/98 14:30 **Date Received..:** 05/23/98
Prep Date.....: 06/04/98 **Analysis Date..:** 06/04/98
Prep Batch #...: 8156305 **Analysis Time..:** 13:44
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Chlorodibromomethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Xylenes (total)	ND	1.0	ug/L
2-Butanone (MEK)	ND	5.0	ug/L
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	100	(78 - 113)
4-Bromofluorobenzene	104	(88 - 113)
Toluene-d8	94	(90 - 108)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-2

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-001 **Work Order #...:** CHEQW103 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/15/98
Prep Batch #...: 8154210 **Analysis Time..:** 22:37
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl) ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
Carbazole	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
bis(2-Chloroisopropyl) ether	ND	330	ug/kg
Diallate	ND	660	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	330	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-2

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-001 **Work Order #...:** CHEQW103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
2-Methylphenol	ND	330	ug/kg
4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	660	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	660	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(71 - 105)
Phenol-d5	76	(58 - 120)
Nitrobenzene-d5	73	(58 - 104)
2-Fluorobiphenyl	77	(58 - 104)
2,4,6-Tribromophenol	76	(63 - 109)
Terphenyl-d14	95	(50 - 116)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-9

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-002 **Work Order #...:** CHEQX103 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:12 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 18:51
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl) ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
Carbazole	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
bis(2-Chloroisopropyl) ether	ND	330	ug/kg
Diallate	ND	660	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	330	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-9

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-002 **Work Order #...:** CHEQX103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
2-Methylphenol	ND	330	ug/kg
4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	660	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	660	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	75	(71 - 105)
Phenol-d5	75	(58 - 120)
Nitrobenzene-d5	73	(58 - 104)
2-Fluorobiphenyl	74	(58 - 104)
2,4,6-Tribromophenol	77	(63 - 109)
Terphenyl-d14	94	(50 - 116)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-15

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-003 **Work Order #...:** CHER0103 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:30 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 19:25
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl) ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
Carbazole	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
bis(2-Chloroisopropyl) ether	ND	330	ug/kg
Diallate	ND	660	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	330	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-15

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-003 **Work Order #...:** CHER0103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
2-Methylphenol	ND	330	ug/kg
4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	660	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	660	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(71 - 105)
Phenol-d5	75	(58 - 120)
Nitrobenzene-d5	73	(58 - 104)
2-Fluorobiphenyl	76	(58 - 104)
2,4,6-Tribromophenol	81	(63 - 109)
Terphenyl-d14	93	(50 - 116)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-20

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-004 **Work Order #...:** CHER1103 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:50 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 03:04
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl) ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
Carbazole	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
bis(2-Chloroisopropyl) ether	ND	330	ug/kg
Diallate	ND	660	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	330	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-20

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-004 **Work Order #...:** CHER1103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
2-Methylphenol	ND	330	ug/kg
4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	660	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	660	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	77	(71 - 105)
Phenol-d5	79	(58 - 120)
Nitrobenzene-d5	75	(58 - 104)
2-Fluorobiphenyl	90	(58 - 104)
2,4,6-Tribromophenol	77	(63 - 109)
Terphenyl-d14	103	(50 - 116)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-2

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-005 **Work Order #...:** CHER2103 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:35 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 03:36
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl) ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
Carbazole	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
bis(2-Chloroisopropyl) ether	ND	330	ug/kg
Diallate	ND	660	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	330	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-2

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-005 **Work Order #...:** CHER2103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
2-Methylphenol	ND	330	ug/kg
4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	660	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	660	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(71 - 105)
Phenol-d5	80	(58 - 120)
Nitrobenzene-d5	75	(58 - 104)
2-Fluorobiphenyl	87	(58 - 104)
2,4,6-Tribromophenol	75	(63 - 109)
Terphenyl-d14	106	(50 - 116)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-5

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-006 **Work Order #...:** CHER3103 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:40 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 04:08
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl) ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
Carbazole	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
bis(2-Chloroisopropyl) ether	ND	330	ug/kg
Diallate	ND	660	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	330	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-5

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-006 **Work Order #...:** CHER3103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
2-Methylphenol	ND	330	ug/kg
4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	660	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	660	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(71 - 105)
Phenol-d5	73	(58 - 120)
Nitrobenzene-d5	70	(58 - 104)
2-Fluorobiphenyl	84	(58 - 104)
2,4,6-Tribromophenol	72	(63 - 109)
Terphenyl-d14	105	(50 - 116)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-12

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-007 **Work Order #...:** CHER4103 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:55 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 04:40
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl) ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
Carbazole	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
bis(2-Chloroisopropyl) ether	ND	330	ug/kg
Diallate	ND	660	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	330	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-12

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-007 **Work Order #...:** CHER4103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
2-Methylphenol	ND	330	ug/kg
4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	660	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	660	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(71 - 105)
Phenol-d5	70	(58 - 120)
Nitrobenzene-d5	67	(58 - 104)
2-Fluorobiphenyl	79	(58 - 104)
2,4,6-Tribromophenol	66	(63 - 109)
Terphenyl-d14	103	(50 - 116)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-12-DUP

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-008 **Work Order #...:** CHER5103 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:55 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 05:12
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl) ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
Carbazole	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
bis(2-Chloroisopropyl) ether	ND	330	ug/kg
Diallate	ND	660	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	330	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-12-DUP

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-008 **Work Order #...:** CHER5103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
2-Methylphenol	ND	330	ug/kg
4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	660	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	660	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(71 - 105)
Phenol-d5	73	(58 - 120)
Nitrobenzene-d5	69	(58 - 104)
2-Fluorobiphenyl	83	(58 - 104)
2,4,6-Tribromophenol	74	(63 - 109)
Terphenyl-d14	101	(50 - 116)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-18

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-009 **Work Order #...:** CHER6103 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 11:10 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 19:59
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl) ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
Carbazole	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
bis(2-Chloroisopropyl) ether	ND	330	ug/kg
Diallate	ND	660	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	330	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-18

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-009 **Work Order #...:** CHER6103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
2-Methylphenol	ND	330	ug/kg
4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	660	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	660	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	84	(71 - 105)
Phenol-d5	83	(58 - 120)
Nitrobenzene-d5	83	(58 - 104)
2-Fluorobiphenyl	81	(58 - 104)
2,4,6-Tribromophenol	77	(63 - 109)
Terphenyl-d14	91	(50 - 116)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-2

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-010 **Work Order #...:** CHER7103 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 11:50 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 06:16
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl) ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
Carbazole	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
bis(2-Chloroisopropyl) ether	ND	330	ug/kg
Diallate	ND	660	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	330	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-2

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-010 **Work Order #...:** CHER7103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
2-Methylphenol	ND	330	ug/kg
4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	660	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	660	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	83	(71 - 105)
Phenol-d5	81	(58 - 120)
Nitrobenzene-d5	76	(58 - 104)
2-Fluorobiphenyl	92	(58 - 104)
2,4,6-Tribromophenol	77	(63 - 109)
Terphenyl-d14	113	(50 - 116)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-8

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-011 **Work Order #...:** CHER8103 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 12:15 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 06:48
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl) ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
Carbazole	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
bis(2-Chloroisopropyl) ether	ND	330	ug/kg
Diallate	ND	660	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	330	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-8

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-011 **Work Order #...:** CHER8103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
2-Methylphenol	ND	330	ug/kg
4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	660	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	660	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	24 *	(71 - 105)
Phenol-d5	21 *	(58 - 120)
Nitrobenzene-d5	23 *	(58 - 104)
2-Fluorobiphenyl	28 *	(58 - 104)
2,4,6-Tribromophenol	4.0 *	(63 - 109)
Terphenyl-d14	34 *	(50 - 116)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-8

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-011 **Work Order #...:** CHER8203 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 12:15 **Date Received..:** 05/23/98
Prep Date.....: 06/11/98 **Analysis Date..:** 06/15/98
Prep Batch #...: 8162184 **Analysis Time..:** 23:11
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl) ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
Carbazole	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
bis(2-Chloroisopropyl) ether	ND	330	ug/kg
Diallate	ND	660	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	330	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-8

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-011 **Work Order #...:** CHER8203 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
2-Methylphenol	ND	330	ug/kg
4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	660	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	660	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	90	(71 - 105)
Phenol-d5	92	(58 - 120)
Nitrobenzene-d5	87	(58 - 104)
2-Fluorobiphenyl	92	(58 - 104)
2,4,6-Tribromophenol	87	(63 - 109)
Terphenyl-d14	92	(50 - 116)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-2

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-012 **Work Order #...:** CHERA103 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 13:00 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 20:33
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl) ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
Carbazole	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
bis(2-Chloroisopropyl) ether	ND	330	ug/kg
Diallate	ND	660	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	330	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-2

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-012 **Work Order #...:** CHERA103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isophorone	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
2-Methylphenol	ND	330	ug/kg
4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	660	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	660	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Pyrene	ND	330	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	84	(71 - 105)
Phenol-d5	83	(58 - 120)
Nitrobenzene-d5	82	(58 - 104)
2-Fluorobiphenyl	82	(58 - 104)
2,4,6-Tribromophenol	86	(63 - 109)
Terphenyl-d14	98	(50 - 116)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-GW-8

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-013 **Work Order #...:** CHERC104 **Matrix.....:** WATER
Date Sampled...: 05/21/98 12:30 **Date Received..:** 05/23/98
Prep Date.....: 05/28/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8148221 **Analysis Time..:** 20:40
Dilution Factor: 0.92 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	9.3	ug/L
Acenaphthylene	ND	9.3	ug/L
Anthracene	ND	9.3	ug/L
Benzo(a)anthracene	ND	9.3	ug/L
Benzo(b)fluoranthene	ND	9.3	ug/L
Benzo(k)fluoranthene	ND	9.3	ug/L
Benzo(ghi)perylene	ND	9.3	ug/L
Benzo(a)pyrene	ND	9.3	ug/L
bis(2-Chloroethoxy) methane	ND	9.3	ug/L
bis(2-Chloroethyl) ether	ND	9.3	ug/L
bis(2-Ethylhexyl) phthalate	ND	9.3	ug/L
4-Bromophenyl phenyl ether	ND	9.3	ug/L
Butyl benzyl phthalate	ND	9.3	ug/L
Carbazole	ND	9.3	ug/L
4-Chloroaniline	ND	9.3	ug/L
4-Chloro-3-methylphenol	ND	9.3	ug/L
2-Chloronaphthalene	ND	9.3	ug/L
2-Chlorophenol	ND	9.3	ug/L
4-Chlorophenyl phenyl ether	ND	9.3	ug/L
Chrysene	ND	9.3	ug/L
Di-n-butyl phthalate	ND	9.3	ug/L
bis(2-Chloroisopropyl) ether	ND	9.3	ug/L
Dibenz(a,h)anthracene	ND	9.3	ug/L
Dibenzofuran	ND	9.3	ug/L
1,2-Dichlorobenzene	ND	9.3	ug/L
1,3-Dichlorobenzene	ND	9.3	ug/L
1,4-Dichlorobenzene	ND	9.3	ug/L
3,3'-Dichlorobenzidine	ND	46	ug/L
2,4-Dichlorophenol	ND	9.3	ug/L
Diethyl phthalate	ND	9.3	ug/L
2,4-Dimethylphenol	ND	9.3	ug/L
Dimethyl phthalate	ND	9.3	ug/L
1,3-Dinitrobenzene	ND	9.3	ug/L
4,6-Dinitro-2-methylphenol	ND	46	ug/L

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-GW-8

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-013 **Work Order #...:** CHERC104 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	46	ug/L
2,4-Dinitrotoluene	ND	9.3	ug/L
2,6-Dinitrotoluene	ND	9.3	ug/L
Di-n-octyl phthalate	ND	9.3	ug/L
Fluoranthene	ND	9.3	ug/L
Fluorene	ND	9.3	ug/L
Hexachlorobenzene	ND	9.3	ug/L
Hexachlorobutadiene	ND	9.3	ug/L
Hexachlorocyclopentadiene	ND	46	ug/L
Hexachloroethane	ND	9.3	ug/L
Indeno(1,2,3-cd)pyrene	ND	9.3	ug/L
Isophorone	ND	9.3	ug/L
2-Methylnaphthalene	ND	9.3	ug/L
2-Methylphenol	ND	9.3	ug/L
4-Methylphenol	ND	9.3	ug/L
Naphthalene	ND	9.3	ug/L
2-Nitroaniline	ND	46	ug/L
3-Nitroaniline	ND	46	ug/L
4-Nitroaniline	ND	46	ug/L
Nitrobenzene	ND	9.3	ug/L
2-Nitrophenol	ND	9.3	ug/L
4-Nitrophenol	ND	46	ug/L
N-Nitrosodiphenylamine	ND	9.3	ug/L
N-Nitrosodi-n-propylamine	ND	9.3	ug/L
Pentachlorophenol	ND	46	ug/L
Phenacetin	ND	19	ug/L
Phenanthrene	ND	9.3	ug/L
Phenol	ND	9.3	ug/L
Pyrene	ND	9.3	ug/L
1,2,4-Trichlorobenzene	ND	9.3	ug/L
2,4,5-Trichlorophenol	ND	9.3	ug/L
2,4,6-Trichlorophenol	ND	9.3	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	57	(54 - 110)
Phenol-d5	62	(49 - 131)
Nitrobenzene-d5	63	(54 - 116)
2-Fluorobiphenyl	60	(49 - 102)
2,4,6-Tribromophenol	59	(46 - 127)
Terphenyl-d14	86	(57 - 117)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-GW-7

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-014 **Work Order #...:** CHERE104 **Matrix.....:** WATER
Date Sampled...: 05/21/98 14:30 **Date Received..:** 05/23/98
Prep Date.....: 05/28/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8148221 **Analysis Time..:** 21:13
Dilution Factor: 0.92 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	9.3	ug/L
Acenaphthylene	ND	9.3	ug/L
Anthracene	ND	9.3	ug/L
Benzo(a)anthracene	ND	9.3	ug/L
Benzo(b)fluoranthene	ND	9.3	ug/L
Benzo(k)fluoranthene	ND	9.3	ug/L
Benzo(ghi)perylene	ND	9.3	ug/L
Benzo(a)pyrene	ND	9.3	ug/L
bis(2-Chloroethoxy) methane	ND	9.3	ug/L
bis(2-Chloroethyl) ether	ND	9.3	ug/L
bis(2-Ethylhexyl) phthalate	ND	9.3	ug/L
4-Bromophenyl phenyl ether	ND	9.3	ug/L
Butyl benzyl phthalate	ND	9.3	ug/L
Carbazole	ND	9.3	ug/L
4-Chloroaniline	ND	9.3	ug/L
4-Chloro-3-methylphenol	ND	9.3	ug/L
2-Chloronaphthalene	ND	9.3	ug/L
2-Chlorophenol	ND	9.3	ug/L
4-Chlorophenyl phenyl ether	ND	9.3	ug/L
Chrysene	ND	9.3	ug/L
Di-n-butyl phthalate	ND	9.3	ug/L
bis(2-Chloroisopropyl) ether	ND	9.3	ug/L
Dibenz(a,h)anthracene	ND	9.3	ug/L
Dibenzofuran	ND	9.3	ug/L
1,2-Dichlorobenzene	ND	9.3	ug/L
1,3-Dichlorobenzene	ND	9.3	ug/L
1,4-Dichlorobenzene	ND	9.3	ug/L
3,3'-Dichlorobenzidine	ND	46	ug/L
2,4-Dichlorophenol	ND	9.3	ug/L
Diethyl phthalate	ND	9.3	ug/L
2,4-Dimethylphenol	ND	9.3	ug/L
Dimethyl phthalate	ND	9.3	ug/L
1,3-Dinitrobenzene	ND	9.3	ug/L
4,6-Dinitro-2-methylphenol	ND	46	ug/L

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-GW-7

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-014 **Work Order #...:** CHERE104 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	46	ug/L
2,4-Dinitrotoluene	ND	9.3	ug/L
2,6-Dinitrotoluene	ND	9.3	ug/L
Di-n-octyl phthalate	ND	9.3	ug/L
Fluoranthene	ND	9.3	ug/L
Fluorene	ND	9.3	ug/L
Hexachlorobenzene	ND	9.3	ug/L
Hexachlorobutadiene	ND	9.3	ug/L
Hexachlorocyclopentadiene	ND	46	ug/L
Hexachloroethane	ND	9.3	ug/L
Indeno(1,2,3-cd)pyrene	ND	9.3	ug/L
Isophorone	ND	9.3	ug/L
2-Methylnaphthalene	ND	9.3	ug/L
2-Methylphenol	ND	9.3	ug/L
4-Methylphenol	ND	9.3	ug/L
Naphthalene	ND	9.3	ug/L
2-Nitroaniline	ND	46	ug/L
3-Nitroaniline	ND	46	ug/L
4-Nitroaniline	ND	46	ug/L
Nitrobenzene	ND	9.3	ug/L
2-Nitrophenol	ND	9.3	ug/L
4-Nitrophenol	ND	46	ug/L
N-Nitrosodiphenylamine	ND	9.3	ug/L
N-Nitrosodi-n-propylamine	ND	9.3	ug/L
Pentachlorophenol	ND	46	ug/L
Phenacetin	ND	19	ug/L
Phenanthrene	ND	9.3	ug/L
Phenol	ND	9.3	ug/L
Pyrene	ND	9.3	ug/L
1,2,4-Trichlorobenzene	ND	9.3	ug/L
2,4,5-Trichlorophenol	ND	9.3	ug/L
2,4,6-Trichlorophenol	ND	9.3	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(54 - 110)
Phenol-d5	68	(49 - 131)
Nitrobenzene-d5	71	(54 - 116)
2-Fluorobiphenyl	67	(49 - 102)
2,4,6-Tribromophenol	64	(46 - 127)
Terphenyl-d14	83	(57 - 117)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-GWDP-7

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-015 **Work Order #...:** CHERF104 **Matrix.....:** WATER
Date Sampled...: 05/21/98 14:30 **Date Received..:** 05/23/98
Prep Date.....: 05/28/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8148221 **Analysis Time..:** 21:46
Dilution Factor: 0.96 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	9.7	ug/L
Acenaphthylene	ND	9.7	ug/L
Anthracene	ND	9.7	ug/L
Benzo(a)anthracene	ND	9.7	ug/L
Benzo(b)fluoranthene	ND	9.7	ug/L
Benzo(k)fluoranthene	ND	9.7	ug/L
Benzo(ghi)perylene	ND	9.7	ug/L
Benzo(a)pyrene	ND	9.7	ug/L
bis(2-Chloroethoxy) methane	ND	9.7	ug/L
bis(2-Chloroethyl) ether	ND	9.7	ug/L
bis(2-Ethylhexyl) phthalate	ND	9.7	ug/L
4-Bromophenyl phenyl ether	ND	9.7	ug/L
Butyl benzyl phthalate	ND	9.7	ug/L
Carbazole	ND	9.7	ug/L
4-Chloroaniline	ND	9.7	ug/L
4-Chloro-3-methylphenol	ND	9.7	ug/L
2-Chloronaphthalene	ND	9.7	ug/L
2-Chlorophenol	ND	9.7	ug/L
4-Chlorophenyl phenyl ether	ND	9.7	ug/L
Chrysene	ND	9.7	ug/L
Di-n-butyl phthalate	ND	9.7	ug/L
bis(2-Chloroisopropyl) ether	ND	9.7	ug/L
Dibenz(a,h)anthracene	ND	9.7	ug/L
Dibenzofuran	ND	9.7	ug/L
1,2-Dichlorobenzene	ND	9.7	ug/L
1,3-Dichlorobenzene	ND	9.7	ug/L
1,4-Dichlorobenzene	ND	9.7	ug/L
3,3'-Dichlorobenzidine	ND	48	ug/L
2,4-Dichlorophenol	ND	9.7	ug/L
Diethyl phthalate	ND	9.7	ug/L
2,4-Dimethylphenol	ND	9.7	ug/L
Dimethyl phthalate	ND	9.7	ug/L
1,3-Dinitrobenzene	ND	9.7	ug/L
4,6-Dinitro-2-methylphenol	ND	48	ug/L

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-GWDP-7

GC/MS Semivolatiles

Lot-Sample #...: D8E230132-015 **Work Order #...:** CHERF104 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	48	ug/L
2,4-Dinitrotoluene	ND	9.7	ug/L
2,6-Dinitrotoluene	ND	9.7	ug/L
Di-n-octyl phthalate	ND	9.7	ug/L
Fluoranthene	ND	9.7	ug/L
Fluorene	ND	9.7	ug/L
Hexachlorobenzene	ND	9.7	ug/L
Hexachlorobutadiene	ND	9.7	ug/L
Hexachlorocyclopentadiene	ND	48	ug/L
Hexachloroethane	ND	9.7	ug/L
Indeno(1,2,3-cd)pyrene	ND	9.7	ug/L
Isophorone	ND	9.7	ug/L
2-Methylnaphthalene	ND	9.7	ug/L
2-Methylphenol	ND	9.7	ug/L
4-Methylphenol	ND	9.7	ug/L
Naphthalene	ND	9.7	ug/L
2-Nitroaniline	ND	48	ug/L
3-Nitroaniline	ND	48	ug/L
4-Nitroaniline	ND	48	ug/L
Nitrobenzene	ND	9.7	ug/L
2-Nitrophenol	ND	9.7	ug/L
4-Nitrophenol	ND	48	ug/L
N-Nitrosodiphenylamine	ND	9.7	ug/L
N-Nitrosodi-n-propylamine	ND	9.7	ug/L
Pentachlorophenol	ND	48	ug/L
Phenacetin	ND	19	ug/L
Phenanthrene	ND	9.7	ug/L
Phenol	ND	9.7	ug/L
Pyrene	ND	9.7	ug/L
1,2,4-Trichlorobenzene	ND	9.7	ug/L
2,4,5-Trichlorophenol	ND	9.7	ug/L
2,4,6-Trichlorophenol	ND	9.7	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	58	(54 - 110)
Phenol-d5	62	(49 - 131)
Nitrobenzene-d5	65	(54 - 116)
2-Fluorobiphenyl	63	(49 - 102)
2,4,6-Tribromophenol	66	(46 - 127)
Terphenyl-d14	92	(57 - 117)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-2

HPLC

Lot-Sample #...: D8E230132-001 **Work Order #...:** CHEQW101 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 02:40
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/g
HMX	ND	0.25	ug/g
Tetryl	ND	0.50	ug/g
1,3-Dinitrobenzene	ND	0.25	ug/g
Nitrobenzene	ND	0.25	ug/g
2,4,6-Trinitrotoluene	ND	0.25	ug/g
2,4-Dinitrotoluene	ND	0.25	ug/g
2,6-Dinitrotoluene	ND	0.25	ug/g
4-Amino-2,6-dinitrotoluene	ND	0.25	ug/g
2-Amino-4,6-dinitrotoluene	ND	0.25	ug/g
2-Nitrotoluene	ND	0.25	ug/g
3-Nitrotoluene	ND	0.25	ug/g
4-Nitrotoluene	ND	0.25	ug/g
1,3,5-Trinitrobenzene	ND	0.25	ug/g

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	118	(84 - 140)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-9

HPLC

Lot-Sample #...: D8E230132-002 **Work Order #...:** CHEQX101 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:12 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 03:11
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/g
HMX	ND	0.25	ug/g
Tetryl	ND	0.50	ug/g
1,3-Dinitrobenzene	ND	0.25	ug/g
Nitrobenzene	ND	0.25	ug/g
2,4,6-Trinitrotoluene	ND	0.25	ug/g
2,4-Dinitrotoluene	ND	0.25	ug/g
2,6-Dinitrotoluene	ND	0.25	ug/g
4-Amino-2,6-dinitrotoluene	ND	0.25	ug/g
2-Amino-4,6-dinitrotoluene	ND	0.25	ug/g
2-Nitrotoluene	ND	0.25	ug/g
3-Nitrotoluene	ND	0.25	ug/g
4-Nitrotoluene	ND	0.25	ug/g
1,3,5-Trinitrobenzene	ND	0.25	ug/g

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	97	(84 - 140)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-15

HPLC

Lot-Sample #...: D8E230132-003 **Work Order #...:** CHER0101 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:30 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 04:44
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/g
HMX	ND	0.25	ug/g
Tetryl	ND	0.50	ug/g
1,3-Dinitrobenzene	ND	0.25	ug/g
Nitrobenzene	ND	0.25	ug/g
2,4,6-Trinitrotoluene	ND	0.25	ug/g
2,4-Dinitrotoluene	ND	0.25	ug/g
2,6-Dinitrotoluene	ND	0.25	ug/g
4-Amino-2,6-dinitrotoluene	ND	0.25	ug/g
2-Amino-4,6-dinitrotoluene	ND	0.25	ug/g
2-Nitrotoluene	ND	0.25	ug/g
3-Nitrotoluene	ND	0.25	ug/g
4-Nitrotoluene	ND	0.25	ug/g
1,3,5-Trinitrobenzene	ND	0.25	ug/g

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	114	(84 - 140)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-20

HPLC

Lot-Sample #...: D8E230132-004 **Work Order #...:** CHER1101 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:50 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 05:15
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/g
HMX	ND	0.25	ug/g
Tetryl	ND	0.50	ug/g
1,3-Dinitrobenzene	ND	0.25	ug/g
Nitrobenzene	ND	0.25	ug/g
2,4,6-Trinitrotoluene	ND	0.25	ug/g
2,4-Dinitrotoluene	ND	0.25	ug/g
2,6-Dinitrotoluene	ND	0.25	ug/g
4-Amino-2,6-dinitrotoluene	ND	0.25	ug/g
2-Amino-4,6-dinitrotoluene	ND	0.25	ug/g
2-Nitrotoluene	ND	0.25	ug/g
3-Nitrotoluene	ND	0.25	ug/g
4-Nitrotoluene	ND	0.25	ug/g
1,3,5-Trinitrobenzene	ND	0.25	ug/g

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	117	(84 - 140)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-2

HPLC

Lot-Sample #...: D8E230132-005 **Work Order #...:** CHER2101 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:35 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 05:46
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/g
HMX	ND	0.25	ug/g
Tetryl	ND	0.50	ug/g
1,3-Dinitrobenzene	ND	0.25	ug/g
Nitrobenzene	ND	0.25	ug/g
2,4,6-Trinitrotoluene	ND	0.25	ug/g
2,4-Dinitrotoluene	ND	0.25	ug/g
2,6-Dinitrotoluene	ND	0.25	ug/g
4-Amino-2,6-dinitrotoluene	ND	0.25	ug/g
2-Amino-4,6-dinitrotoluene	ND	0.25	ug/g
2-Nitrotoluene	ND	0.25	ug/g
3-Nitrotoluene	ND	0.25	ug/g
4-Nitrotoluene	ND	0.25	ug/g
1,3,5-Trinitrobenzene	ND	0.25	ug/g

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	117	(84 - 140)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-5

HPLC

Lot-Sample #...: D8E230132-006 **Work Order #...:** CHER3101 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:40 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 06:48
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/g
HMX	ND	0.25	ug/g
Tetryl	ND	0.50	ug/g
1,3-Dinitrobenzene	ND	0.25	ug/g
Nitrobenzene	ND	0.25	ug/g
2,4,6-Trinitrotoluene	ND	0.25	ug/g
2,4-Dinitrotoluene	ND	0.25	ug/g
2,6-Dinitrotoluene	ND	0.25	ug/g
4-Amino-2,6-dinitrotoluene	ND	0.25	ug/g
2-Amino-4,6-dinitrotoluene	ND	0.25	ug/g
2-Nitrotoluene	ND	0.25	ug/g
3-Nitrotoluene	ND	0.25	ug/g
4-Nitrotoluene	ND	0.25	ug/g
1,3,5-Trinitrobenzene	ND	0.25	ug/g

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	120	(84 - 140)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-12

HPLC

Lot-Sample #...: D8E230132-007 **Work Order #...:** CHER4101 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:55 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 07:19
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/g
HMX	ND	0.25	ug/g
Tetryl	ND	0.50	ug/g
1,3-Dinitrobenzene	ND	0.25	ug/g
Nitrobenzene	ND	0.25	ug/g
2,4,6-Trinitrotoluene	ND	0.25	ug/g
2,4-Dinitrotoluene	ND	0.25	ug/g
2,6-Dinitrotoluene	ND	0.25	ug/g
4-Amino-2,6-dinitrotoluene	ND	0.25	ug/g
2-Amino-4,6-dinitrotoluene	ND	0.25	ug/g
2-Nitrotoluene	ND	0.25	ug/g
3-Nitrotoluene	ND	0.25	ug/g
4-Nitrotoluene	ND	0.25	ug/g
1,3,5-Trinitrobenzene	ND	0.25	ug/g

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	118	(84 - 140)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-12-DUP

HPLC

Lot-Sample #...: D8E230132-008 **Work Order #...:** CHER5101 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:55 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 07:50
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/g
HMX	ND	0.25	ug/g
Tetryl	ND	0.50	ug/g
1,3-Dinitrobenzene	ND	0.25	ug/g
Nitrobenzene	ND	0.25	ug/g
2,4,6-Trinitrotoluene	ND	0.25	ug/g
2,4-Dinitrotoluene	ND	0.25	ug/g
2,6-Dinitrotoluene	ND	0.25	ug/g
4-Amino-2,6-dinitrotoluene	ND	0.25	ug/g
2-Amino-4,6-dinitrotoluene	ND	0.25	ug/g
2-Nitrotoluene	ND	0.25	ug/g
3-Nitrotoluene	ND	0.25	ug/g
4-Nitrotoluene	ND	0.25	ug/g
1,3,5-Trinitrobenzene	ND	0.25	ug/g

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	117	(84 - 140)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-18

HPLC

Lot-Sample #...: D8E230132-009 **Work Order #...:** CHER6101 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 11:10 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 08:21
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/g
HMX	ND	0.25	ug/g
Tetryl	ND	0.50	ug/g
1,3-Dinitrobenzene	ND	0.25	ug/g
Nitrobenzene	ND	0.25	ug/g
2,4,6-Trinitrotoluene	ND	0.25	ug/g
2,4-Dinitrotoluene	ND	0.25	ug/g
2,6-Dinitrotoluene	ND	0.25	ug/g
4-Amino-2,6-dinitrotoluene	ND	0.25	ug/g
2-Amino-4,6-dinitrotoluene	ND	0.25	ug/g
2-Nitrotoluene	ND	0.25	ug/g
3-Nitrotoluene	ND	0.25	ug/g
4-Nitrotoluene	ND	0.25	ug/g
1,3,5-Trinitrobenzene	ND	0.25	ug/g

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	118	(84 - 140)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-2

HPLC

Lot-Sample #...: D8E230132-010 **Work Order #...:** CHER7101 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 11:50 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 08:52
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/g
HMX	ND	0.25	ug/g
Tetryl	ND	0.50	ug/g
1,3-Dinitrobenzene	ND	0.25	ug/g
Nitrobenzene	ND	0.25	ug/g
2,4,6-Trinitrotoluene	ND	0.25	ug/g
2,4-Dinitrotoluene	ND	0.25	ug/g
2,6-Dinitrotoluene	ND	0.25	ug/g
4-Amino-2,6-dinitrotoluene	ND	0.25	ug/g
2-Amino-4,6-dinitrotoluene	ND	0.25	ug/g
2-Nitrotoluene	ND	0.25	ug/g
3-Nitrotoluene	ND	0.25	ug/g
4-Nitrotoluene	ND	0.25	ug/g
1,3,5-Trinitrobenzene	ND	0.25	ug/g

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	116	(84 - 140)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-8

HPLC

Lot-Sample #...: D8E230132-011 **Work Order #...:** CHER8101 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 12:15 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 09:23
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/g
HMX	ND	0.25	ug/g
Tetryl	ND	0.50	ug/g
1,3-Dinitrobenzene	ND	0.25	ug/g
Nitrobenzene	ND	0.25	ug/g
2,4,6-Trinitrotoluene	ND	0.25	ug/g
2,4-Dinitrotoluene	ND	0.25	ug/g
2,6-Dinitrotoluene	ND	0.25	ug/g
4-Amino-2,6-dinitrotoluene	ND	0.25	ug/g
2-Amino-4,6-dinitrotoluene	ND	0.25	ug/g
2-Nitrotoluene	ND	0.25	ug/g
3-Nitrotoluene	ND	0.25	ug/g
4-Nitrotoluene	ND	0.25	ug/g
1,3,5-Trinitrobenzene	ND	0.25	ug/g

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	120	(84 - 140)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-2

HPLC

Lot-Sample #...: D8E230132-012 **Work Order #...:** CHERA101 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 13:00 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 09:54
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/g
HMX	ND	0.25	ug/g
Tetryl	ND	0.50	ug/g
1,3-Dinitrobenzene	ND	0.25	ug/g
Nitrobenzene	ND	0.25	ug/g
2,4,6-Trinitrotoluene	ND	0.25	ug/g
2,4-Dinitrotoluene	ND	0.25	ug/g
2,6-Dinitrotoluene	ND	0.25	ug/g
4-Amino-2,6-dinitrotoluene	ND	0.25	ug/g
2-Amino-4,6-dinitrotoluene	ND	0.25	ug/g
2-Nitrotoluene	ND	0.25	ug/g
3-Nitrotoluene	ND	0.25	ug/g
4-Nitrotoluene	ND	0.25	ug/g
1,3,5-Trinitrobenzene	ND	0.25	ug/g

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	120	(84 - 140)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-GW-8

HPLC

Lot-Sample #...: D8E230132-013 **Work Order #...:** CHERC102 **Matrix.....:** WATER
Date Sampled...: 05/21/98 12:30 **Date Received..:** 05/23/98
Prep Date.....: 05/28/98 **Analysis Date..:** 06/13/98
Prep Batch #...: 8148183 **Analysis Time..:** 03:09
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/L
HMX	ND	0.25	ug/L
Tetryl	ND	0.50	ug/L
1,3-Dinitrobenzene	ND	0.10	ug/L
Nitrobenzene	ND	0.25	ug/L
2,4,6-Trinitrotoluene	ND	0.10	ug/L
2,4-Dinitrotoluene	ND	0.10	ug/L
2,6-Dinitrotoluene	ND	0.25	ug/L
4-Amino-2,6-dinitrotoluene	ND	0.10	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.10	ug/L
2-Nitrotoluene	ND	0.25	ug/L
3-Nitrotoluene	ND	0.25	ug/L
4-Nitrotoluene	ND	0.25	ug/L
1,3,5-Trinitrobenzene	ND	0.25	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	113	(45 - 133)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-GW-7

HPLC

Lot-Sample #...: D8E230132-014 **Work Order #...:** CHERE102 **Matrix.....:** WATER
Date Sampled...: 05/21/98 14:30 **Date Received..:** 05/23/98
Prep Date.....: 05/28/98 **Analysis Date..:** 06/13/98
Prep Batch #...: 8148183 **Analysis Time..:** 03:40
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/L
HMX	ND	0.25	ug/L
Tetryl	ND	0.50	ug/L
1,3-Dinitrobenzene	ND	0.10	ug/L
Nitrobenzene	ND	0.25	ug/L
2,4,6-Trinitrotoluene	ND	0.10	ug/L
2,4-Dinitrotoluene	ND	0.10	ug/L
2,6-Dinitrotoluene	ND	0.25	ug/L
4-Amino-2,6-dinitrotoluene	ND	0.10	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.10	ug/L
2-Nitrotoluene	ND	0.25	ug/L
3-Nitrotoluene	ND	0.25	ug/L
4-Nitrotoluene	ND	0.25	ug/L
1,3,5-Trinitrobenzene	ND	0.25	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	123	(45 - 133)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-GWDP-7

HPLC

Lot-Sample #...: D8E230132-015 **Work Order #...:** CHERF102 **Matrix.....:** WATER
Date Sampled...: 05/21/98 14:30 **Date Received..:** 05/23/98
Prep Date.....: 05/28/98 **Analysis Date..:** 06/13/98
Prep Batch #...: 8148183 **Analysis Time..:** 04:12
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
RDX	ND	0.25	ug/L
HMX	ND	0.25	ug/L
Tetryl	ND	0.50	ug/L
1,3-Dinitrobenzene	ND	0.10	ug/L
Nitrobenzene	ND	0.25	ug/L
2,4,6-Trinitrotoluene	ND	0.10	ug/L
2,4-Dinitrotoluene	ND	0.10	ug/L
2,6-Dinitrotoluene	ND	0.25	ug/L
4-Amino-2,6-dinitrotoluene	ND	0.10	ug/L
2-Amino-4,6-dinitrotoluene	ND	0.10	ug/L
2-Nitrotoluene	ND	0.25	ug/L
3-Nitrotoluene	ND	0.25	ug/L
4-Nitrotoluene	ND	0.25	ug/L
1,3,5-Trinitrobenzene	ND	0.25	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	123	(45 - 133)

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-2

TOTAL Metals

Lot-Sample #...: D8E230132-001 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8156226						
Silver	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHEQW104
		Dilution Factor: 2		Analysis Time..: 16:10		
Arsenic	**1.8 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHEQW10N**
		Dilution Factor: 2		Analysis Time..: 11:16		
Aluminum	**2270 Q,D,MSB**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQW105**
		Dilution Factor: 2		Analysis Time..: 16:10		
Lead	**1.9 Q,D**	**0.60**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHEQW10P**
		Dilution Factor: 2		Analysis Time..: 11:16		
Antimony	**1.8 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHEQW10Q**
		Dilution Factor: 2		Analysis Time..: 11:16		
Barium	**26.6 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQW106**
		Dilution Factor: 2		Analysis Time..: 16:10		
Selenium	ND Q,D	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHEQW10R
		Dilution Factor: 2		Analysis Time..: 11:16		
Beryllium	ND Q,D	0.40	mg/kg	SW846 6010B	06/05-06/23/98	CHEQW107
		Dilution Factor: 2		Analysis Time..: 16:10		
Thallium	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/08/98	CHEQW10T
		Dilution Factor: 2		Analysis Time..: 11:16		
Calcium	**164000 MBB,MS**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQW108**
		Dilution Factor: 2		Analysis Time..: 16:10		
Cadmium	ND Q,D	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHEQW10U
		Dilution Factor: 2		Analysis Time..: 11:16		
Cobalt	**0.91 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQW109**
		Dilution Factor: 2		Analysis Time..: 16:10		
Chromium	**3.1 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQW10A**
		Dilution Factor: 2		Analysis Time..: 16:10		
Copper	**1.4 B,Q,D**	**4.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQW10C**
		Dilution Factor: 2		Analysis Time..: 16:10		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-2

TOTAL Metals

Lot-Sample #...: D8E230132-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	**484 B,Q,D**	**1000**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQW10E**
		Dilution Factor: 2		Analysis Time..: 16:10		
Magnesium	**2830 Q,D**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQW10F**
		Dilution Factor: 2		Analysis Time..: 16:10		
Manganese	**47.7 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQW10G**
		Dilution Factor: 2		Analysis Time..: 16:10		
Sodium	ND Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHEQW10H
		Dilution Factor: 2		Analysis Time..: 16:10		
Nickel	**2.4 B,Q,D**	**8.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQW10J**
		Dilution Factor: 2		Analysis Time..: 16:10		
Vanadium	**8.5 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQW10K**
		Dilution Factor: 2		Analysis Time..: 16:10		
Zinc	**6.2 Q,D**	**4.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQW10L**
		Dilution Factor: 2		Analysis Time..: 16:10		
Prep Batch #...: 8156245						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHEQW10V
		Dilution Factor: 1		Analysis Time..: 12:00		
Prep Batch #...: 8180198						
Iron	**326 D,Q**	**20.0**	**mg/kg**	**SW846 6010B**	**06/29-07/01/98**	**CHEQW20D**
		Dilution Factor: 2		Analysis Time..: 17:26		

NOTE(S):

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MBB This analyte is present at a reportable level in the associated method blank but is less than 5% of the sample amount.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-9

TOTAL Metals

Lot-Sample #...: D8E230132-002 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:12 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8156226						
Silver	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHEQX104
		Dilution Factor: 2		Analysis Time..: 16:33		
Arsenic	**2.0 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHEQX10N**
		Dilution Factor: 2		Analysis Time..: 11:32		
Aluminum	**11800 Q,D**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQX105**
		Dilution Factor: 2		Analysis Time..: 16:33		
Lead	**5.1 Q,D**	**0.60**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHEQX10P**
		Dilution Factor: 2		Analysis Time..: 11:32		
Antimony	**1.5 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHEQX10Q**
		Dilution Factor: 2		Analysis Time..: 11:32		
Barium	**79.3 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQX106**
		Dilution Factor: 2		Analysis Time..: 16:33		
Selenium	**1.3 Q,D**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHEQX10R**
		Dilution Factor: 2		Analysis Time..: 11:32		
Beryllium	**0.61 Q,D**	**0.40**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQX107**
		Dilution Factor: 2		Analysis Time..: 16:33		
Thallium	**1.1 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHEQX10T**
		Dilution Factor: 2		Analysis Time..: 11:32		
Calcium	**154000 Q,D,MB**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQX108**
		Dilution Factor: 2		Analysis Time..: 16:33		
Cadmium	**0.37 B,Q,D**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHEQX10U**
		Dilution Factor: 2		Analysis Time..: 11:32		
Cobalt	**3.5 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQX109**
		Dilution Factor: 2		Analysis Time..: 16:33		
Chromium	**14.8 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQX10A**
		Dilution Factor: 2		Analysis Time..: 16:33		
Copper	**5.0 Q,D**	**4.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHEQX10C**
		Dilution Factor: 2		Analysis Time..: 16:33		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-9

TOTAL Metals

Lot-Sample #...: D8E230132-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	3150 Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHEQX10E
		Dilution Factor: 2		Analysis Time..: 16:33		
Magnesium	7290 Q,D	40.0	mg/kg	SW846 6010B	06/05-06/23/98	CHEQX10F
		Dilution Factor: 2		Analysis Time..: 16:33		
Manganese	99.3 Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHEQX10G
		Dilution Factor: 2		Analysis Time..: 16:33		
Sodium	798 B,Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHEQX10H
		Dilution Factor: 2		Analysis Time..: 16:33		
Nickel	11.0 Q,D	8.0	mg/kg	SW846 6010B	06/05-06/23/98	CHEQX10J
		Dilution Factor: 2		Analysis Time..: 16:33		
Vanadium	21.0 Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHEQX10K
		Dilution Factor: 2		Analysis Time..: 16:33		
Zinc	25.8 Q,D	4.0	mg/kg	SW846 6010B	06/05-06/23/98	CHEQX10L
		Dilution Factor: 2		Analysis Time..: 16:33		
Prep Batch #...: 8156245						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHEQX10V
		Dilution Factor: 1		Analysis Time..: 12:00		
Prep Batch #...: 8180198						
Iron	2240 D,Q	20.0	mg/kg	SW846 6010B	06/29-07/01/98	CHEQX20D
		Dilution Factor: 2		Analysis Time..: 17:36		

NOTE(S):

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

MBB This analyte is present at a reportable level in the associated method blank but is less than 5% of the sample amount.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-15

TOTAL Metals

Lot-Sample #...: D8E230132-003 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:30 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8156226						
Silver	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER0104
		Dilution Factor: 2		Analysis Time..: 16:35		
Arsenic	**1.5 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER010N**
		Dilution Factor: 2		Analysis Time..: 11:40		
Aluminum	**12600 Q,D**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER0105**
		Dilution Factor: 2		Analysis Time..: 16:35		
Lead	**5.3 Q,D**	**0.60**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER010P**
		Dilution Factor: 2		Analysis Time..: 11:40		
Antimony	**1.7 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER010Q**
		Dilution Factor: 2		Analysis Time..: 11:40		
Barium	**29.0 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER0106**
		Dilution Factor: 2		Analysis Time..: 16:35		
Selenium	ND Q,D	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER010R
		Dilution Factor: 2		Analysis Time..: 11:40		
Beryllium	**0.67 Q,D**	**0.40**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER0107**
		Dilution Factor: 2		Analysis Time..: 16:35		
Thallium	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER010T
		Dilution Factor: 2		Analysis Time..: 11:40		
Calcium	**179000 Q,D,MB**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER0108**
		Dilution Factor: 2		Analysis Time..: 16:35		
Cadmium	**0.39 B,Q,D**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER010U**
		Dilution Factor: 2		Analysis Time..: 11:40		
Cobalt	**4.1 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER0109**
		Dilution Factor: 2		Analysis Time..: 16:35		
Chromium	**14.5 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER010A**
		Dilution Factor: 2		Analysis Time..: 16:35		
Copper	**4.7 Q,D**	**4.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER010C**
		Dilution Factor: 2		Analysis Time..: 16:35		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-15

TOTAL Metals

Lot-Sample #...: D8E230132-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	**3280 Q,D**	**1000**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER010E**
		Dilution Factor: 2		Analysis Time..: 16:35		
Magnesium	**5600 Q,D**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER010F**
		Dilution Factor: 2		Analysis Time..: 16:35		
Manganese	**232 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER010G**
		Dilution Factor: 2		Analysis Time..: 16:35		
Sodium	**1560 Q,D**	**1000**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER010H**
		Dilution Factor: 2		Analysis Time..: 16:35		
Nickel	**11.5 Q,D**	**8.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER010J**
		Dilution Factor: 2		Analysis Time..: 16:35		
Vanadium	**17.5 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER010K**
		Dilution Factor: 2		Analysis Time..: 16:35		
Zinc	**28.4 Q,D**	**4.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER010L**
		Dilution Factor: 2		Analysis Time..: 16:35		
Prep Batch #...: 8156245						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHER010V
		Dilution Factor: 1		Analysis Time..: 12:00		
Prep Batch #...: 8180198						
Iron	**6680 D,Q**	**20.0**	**mg/kg**	**SW846 6010B**	**06/29-07/01/98**	**CHER020D**
		Dilution Factor: 2		Analysis Time..: 17:40		

NOTE(S):

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

MBB This analyte is present at a reportable level in the associated method blank but is less than 5% of the sample amount.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-20

TOTAL Metals

Lot-Sample #...: D8E230132-004 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:50 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8156226						
Silver	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER1104
		Dilution Factor: 2		Analysis Time..: 16:38		
Arsenic	**1.2 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER110N**
		Dilution Factor: 2		Analysis Time..: 11:52		
Aluminum	**1390 Q,D**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER1105**
		Dilution Factor: 2		Analysis Time..: 16:38		
Lead	**0.39 B,Q,D**	**0.60**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER110P**
		Dilution Factor: 2		Analysis Time..: 11:52		
Antimony	**1.9 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER110Q**
		Dilution Factor: 2		Analysis Time..: 11:52		
Barium	**27.3 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER1106**
		Dilution Factor: 2		Analysis Time..: 16:38		
Selenium	ND Q,D	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER110R
		Dilution Factor: 2		Analysis Time..: 11:52		
Beryllium	ND Q,D	0.40	mg/kg	SW846 6010B	06/05-06/23/98	CHER1107
		Dilution Factor: 2		Analysis Time..: 16:38		
Thallium	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER110T
		Dilution Factor: 2		Analysis Time..: 11:52		
Calcium	**146000 Q,D,MB**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER1108**
		Dilution Factor: 2		Analysis Time..: 16:38		
Cadmium	ND Q,D	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER110U
		Dilution Factor: 2		Analysis Time..: 11:52		
Cobalt	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER1109
		Dilution Factor: 2		Analysis Time..: 16:38		
Chromium	**4.2 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER110A**
		Dilution Factor: 2		Analysis Time..: 16:38		
Copper	ND Q,D	4.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER110C
		Dilution Factor: 2		Analysis Time..: 16:38		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-1-20

TOTAL Metals

Lot-Sample #...: D8E230132-004 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	325 B,Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHER110E
		Dilution Factor: 2		Analysis Time..: 16:38		
Magnesium	735 Q,D	40.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER110F
		Dilution Factor: 2		Analysis Time..: 16:38		
Manganese	12.9 Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER110G
		Dilution Factor: 2		Analysis Time..: 16:38		
Sodium	ND Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHER110H
		Dilution Factor: 2		Analysis Time..: 16:38		
Nickel	2.9 B,Q,D	8.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER110J
		Dilution Factor: 2		Analysis Time..: 16:38		
Vanadium	2.4 Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER110K
		Dilution Factor: 2		Analysis Time..: 16:38		
Zinc	3.8 B,Q,D	4.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER110L
		Dilution Factor: 2		Analysis Time..: 16:38		
Prep Batch #...: 8156249						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHER110V
		Dilution Factor: 1		Analysis Time..: 12:00		
Prep Batch #...: 8180198						
Iron	1190 D,Q	20.0	mg/kg	SW846 6010B	06/29-07/01/98	CHER120D
		Dilution Factor: 2		Analysis Time..: 17:42		

NOTE(S):

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

MBB This analyte is present at a reportable level in the associated method blank but is less than 5% of the sample amount.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-2

TOTAL Metals

Lot-Sample #...: D8E230132-005 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:35 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8156226						
Silver	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER2104
		Dilution Factor: 2		Analysis Time..: 16:40		
Arsenic	ND Q,D	5.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER210N
		Dilution Factor: 5		Analysis Time..: 12:15		
Aluminum	**478 Q,D**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER2105**
		Dilution Factor: 2		Analysis Time..: 16:40		
Lead	ND Q,D	1.5	mg/kg	SW846 6010B	06/05-06/08/98	CHER210P
		Dilution Factor: 5		Analysis Time..: 12:15		
Antimony	**2.6 B,Q,D**	**5.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER210Q**
		Dilution Factor: 5		Analysis Time..: 12:15		
Barium	**10.7 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER2106**
		Dilution Factor: 2		Analysis Time..: 16:40		
Selenium	ND Q,D	2.5	mg/kg	SW846 6010B	06/05-06/08/98	CHER210R
		Dilution Factor: 5		Analysis Time..: 12:15		
Beryllium	ND Q,D	0.40	mg/kg	SW846 6010B	06/05-06/23/98	CHER2107
		Dilution Factor: 2		Analysis Time..: 16:40		
Thallium	**1.9 B,Q,D**	**5.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER210T**
		Dilution Factor: 5		Analysis Time..: 12:15		
Calcium	**199000 Q,D,MB**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER2108**
		Dilution Factor: 2		Analysis Time..: 16:40		
Cadmium	ND Q,D	2.5	mg/kg	SW846 6010B	06/05-06/08/98	CHER210U
		Dilution Factor: 5		Analysis Time..: 12:15		
Cobalt	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER2109
		Dilution Factor: 2		Analysis Time..: 16:40		
Chromium	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER210A
		Dilution Factor: 2		Analysis Time..: 16:40		
Copper	ND Q,D	4.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER210C
		Dilution Factor: 2		Analysis Time..: 16:40		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-2

TOTAL Metals

Lot-Sample #...: D8E230132-005 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	ND Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHER210E
		Dilution Factor: 2		Analysis Time..: 16:40		
Magnesium	**611 Q,D**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER210F**
		Dilution Factor: 2		Analysis Time..: 16:40		
Manganese	**5.3 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER210G**
		Dilution Factor: 2		Analysis Time..: 16:40		
Sodium	ND Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHER210H
		Dilution Factor: 2		Analysis Time..: 16:40		
Nickel	ND Q,D	8.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER210J
		Dilution Factor: 2		Analysis Time..: 16:40		
Vanadium	**1.1 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER210K**
		Dilution Factor: 2		Analysis Time..: 16:40		
Zinc	**1.3 B,Q,D**	**4.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER210L**
		Dilution Factor: 2		Analysis Time..: 16:40		
Prep Batch #...: 8156249						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHER210V
		Dilution Factor: 1		Analysis Time..: 12:00		
Prep Batch #...: 8180198						
Iron	**888 D,Q**	**20.0**	**mg/kg**	**SW846 6010B**	**06/29-07/01/98**	**CHER220D**
		Dilution Factor: 2		Analysis Time..: 17:54		

NOTE(S):

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

MBB This analyte is present at a reportable level in the associated method blank but is less than 5% of the sample amount.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-5

TOTAL Metals

Lot-Sample #...: D8E230132-006 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:40 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8156226						
Silver	ND	1.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER3104
		Dilution Factor: 1		Analysis Time..: 16:44		
Arsenic	ND	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER310N
		Dilution Factor: 1		Analysis Time..: 10:28		
Aluminum	**1680**	**10.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER3105**
		Dilution Factor: 1		Analysis Time..: 16:44		
Lead	**0.71**	**0.30**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER310P**
		Dilution Factor: 1		Analysis Time..: 10:28		
Antimony	ND	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER310Q
		Dilution Factor: 1		Analysis Time..: 10:28		
Barium	**15.4**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER3106**
		Dilution Factor: 1		Analysis Time..: 16:44		
Selenium	ND	0.50	mg/kg	SW846 6010B	06/05-06/08/98	CHER310R
		Dilution Factor: 1		Analysis Time..: 10:28		
Beryllium	**0.11 B**	**0.20**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER3107**
		Dilution Factor: 1		Analysis Time..: 16:44		
Thallium	ND	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER310T
		Dilution Factor: 1		Analysis Time..: 10:28		
Calcium	**15400 MBB**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER3108**
		Dilution Factor: 1		Analysis Time..: 16:44		
Cadmium	**0.084 B**	**0.50**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER310U**
		Dilution Factor: 1		Analysis Time..: 10:28		
Cobalt	**0.46 B**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER3109**
		Dilution Factor: 1		Analysis Time..: 16:44		
Chromium	**3.9**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER310A**
		Dilution Factor: 1		Analysis Time..: 16:44		
Copper	**0.49 B**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER310C**
		Dilution Factor: 1		Analysis Time..: 16:44		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-5

TOTAL Metals

Lot-Sample #...: D8E230132-006 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	**388 B**	**500**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER310E**
		Dilution Factor: 1		Analysis Time..: 16:44		
Magnesium	**764**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER310F**
		Dilution Factor: 1		Analysis Time..: 16:44		
Manganese	**17.1**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER310G**
		Dilution Factor: 1		Analysis Time..: 16:44		
Sodium	ND	500	mg/kg	SW846 6010B	06/05-06/23/98	CHER310H
		Dilution Factor: 1		Analysis Time..: 16:44		
Nickel	**1.8 B**	**4.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER310J**
		Dilution Factor: 1		Analysis Time..: 16:44		
Vanadium	**3.0**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER310K**
		Dilution Factor: 1		Analysis Time..: 16:44		
Zinc	**3.1**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER310L**
		Dilution Factor: 1		Analysis Time..: 16:44		
Prep Batch #...: 8156249						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHER310V
		Dilution Factor: 1		Analysis Time..: 12:00		
Prep Batch #...: 8180198						
Iron	**1160**	**10.0**	**mg/kg**	**SW846 6010B**	**06/29-07/01/98**	**CHER320D**
		Dilution Factor: 1		Analysis Time..: 17:58		

NOTE(S):

B Estimated result. Result is less than RL.

MBB This analyte is present at a reportable level in the associated method blank but is less than 5% of the sample amount.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-12

TOTAL Metals

Lot-Sample #...: D8E230132-007 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:55 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8156226						
Silver	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER4104
		Dilution Factor: 2		Analysis Time..: 16:46		
Arsenic	**17.4 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER410N**
		Dilution Factor: 2		Analysis Time..: 10:44		
Aluminum	**944 Q,D**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER4105**
		Dilution Factor: 2		Analysis Time..: 16:46		
Lead	**0.79 Q,D**	**0.60**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER410P**
		Dilution Factor: 2		Analysis Time..: 10:44		
Antimony	**1.7 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER410Q**
		Dilution Factor: 2		Analysis Time..: 10:44		
Barium	**9.3 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER4106**
		Dilution Factor: 2		Analysis Time..: 16:46		
Selenium	**0.56 B,Q,D**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER410R**
		Dilution Factor: 2		Analysis Time..: 10:44		
Beryllium	ND Q,D	0.40	mg/kg	SW846 6010B	06/05-06/23/98	CHER4107
		Dilution Factor: 2		Analysis Time..: 16:46		
Thallium	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER410T
		Dilution Factor: 2		Analysis Time..: 10:44		
Calcium	**168000 Q,D,MB**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER4108**
		Dilution Factor: 2		Analysis Time..: 16:46		
Cadmium	**0.17 B,Q,D**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER410U**
		Dilution Factor: 2		Analysis Time..: 10:44		
Cobalt	**0.64 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER4109**
		Dilution Factor: 2		Analysis Time..: 16:46		
Chromium	**1.8 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER410A**
		Dilution Factor: 2		Analysis Time..: 16:46		
Copper	**0.78 B,Q,D**	**4.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER410C**
		Dilution Factor: 2		Analysis Time..: 16:46		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-12

TOTAL Metals

Lot-Sample #...: D8E230132-007 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	**259 B,Q,D**	**1000**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER410E**
		Dilution Factor: 2		Analysis Time..: 16:46		
Magnesium	**468 Q,D**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER410F**
		Dilution Factor: 2		Analysis Time..: 16:46		
Manganese	**9.6 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER410G**
		Dilution Factor: 2		Analysis Time..: 16:46		
Sodium	ND Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHER410H
		Dilution Factor: 2		Analysis Time..: 16:46		
Nickel	ND Q,D	8.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER410J
		Dilution Factor: 2		Analysis Time..: 16:46		
Vanadium	**22.8 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER410K**
		Dilution Factor: 2		Analysis Time..: 16:46		
Zinc	**2.6 B,Q,D**	**4.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER410L**
		Dilution Factor: 2		Analysis Time..: 16:46		
Prep Batch #...: 8156249						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHER410V
		Dilution Factor: 1		Analysis Time..: 12:00		
Prep Batch #...: 8180198						
Iron	**3940 D,Q**	**20.0**	**mg/kg**	**SW846 6010B**	**06/29-07/01/98**	**CHER420D**
		Dilution Factor: 2		Analysis Time..: 18:00		

NOTE(S):

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

MBB This analyte is present at a reportable level in the associated method blank but is less than 5% of the sample amount.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-12-DUP

TOTAL Metals

Lot-Sample #...: D8E230132-008 Matrix.....: SOLID
Date Sampled...: 05/21/98 10:55 Date Received..: 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8156226						
Silver	0.75 B,Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER5104
		Dilution Factor: 2		Analysis Time..: 16:49		
Arsenic	9.1 Q,D	2.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER510N
		Dilution Factor: 2		Analysis Time..: 10:48		
Aluminum	979 Q,D	20.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER5105
		Dilution Factor: 2		Analysis Time..: 16:49		
Lead	ND Q,D	0.60	mg/kg	SW846 6010B	06/05-06/08/98	CHER510P
		Dilution Factor: 2		Analysis Time..: 10:48		
Antimony	1.6 B,Q,D	2.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER510Q
		Dilution Factor: 2		Analysis Time..: 10:48		
Barium	9.2 Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER5106
		Dilution Factor: 2		Analysis Time..: 16:49		
Selenium	0.53 B,Q,D	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER510R
		Dilution Factor: 2		Analysis Time..: 10:48		
Beryllium	ND Q,D	0.40	mg/kg	SW846 6010B	06/05-06/23/98	CHER5107
		Dilution Factor: 2		Analysis Time..: 16:49		
Thallium	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER510T
		Dilution Factor: 2		Analysis Time..: 10:48		
Calcium	164000 Q,D,MB	40.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER5108
		Dilution Factor: 2		Analysis Time..: 16:49		
Cadmium	0.16 B,Q,D	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER510U
		Dilution Factor: 2		Analysis Time..: 10:48		
Cobalt	1.3 B,Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER5109
		Dilution Factor: 2		Analysis Time..: 16:49		
Chromium	2.4 Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER510A
		Dilution Factor: 2		Analysis Time..: 16:49		
Copper	1.2 B,Q,D	4.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER510C
		Dilution Factor: 2		Analysis Time..: 16:49		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-12-DUP

TOTAL Metals

Lot-Sample #...: D8E230132-008 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	**355 B,Q,D**	**1000**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER510E**
		Dilution Factor: 2		Analysis Time..: 16:49		
Magnesium	**471 Q,D**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER510F**
		Dilution Factor: 2		Analysis Time..: 16:49		
Manganese	**11.1 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER510G**
		Dilution Factor: 2		Analysis Time..: 16:49		
Sodium	ND Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHER510H
		Dilution Factor: 2		Analysis Time..: 16:49		
Nickel	**1.6 B,Q,D**	**8.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER510J**
		Dilution Factor: 2		Analysis Time..: 16:49		
Vanadium	**16.9 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER510K**
		Dilution Factor: 2		Analysis Time..: 16:49		
Zinc	**3.3 B,Q,D**	**4.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER510L**
		Dilution Factor: 2		Analysis Time..: 16:49		
Prep Batch #...: 8156293						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHER510V
		Dilution Factor: 1		Analysis Time..: 12:00		
Prep Batch #...: 8180198						
Iron	**5200 D,Q**	**20.0**	**mg/kg**	**SW846 6010B**	**06/29-07/01/98**	**CHER520D**
		Dilution Factor: 2		Analysis Time..: 18:02		

NOTE(S):

B Estimated result. Result is less than RL.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

D Result was obtained from the analysis of a dilution.

MBB This analyte is present at a reportable level in the associated method blank but is less than 5% of the sample amount.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-18

TOTAL Metals

Lot-Sample #...: D8E230132-009 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 11:10 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8156226						
Silver	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER6104
		Dilution Factor: 2		Analysis Time..: 16:51		
Arsenic	**1.1 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER610N**
		Dilution Factor: 2		Analysis Time..: 10:52		
Aluminum	**2350 Q,D**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER6105**
		Dilution Factor: 2		Analysis Time..: 16:51		
Lead	**0.89 Q,D**	**0.60**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER610P**
		Dilution Factor: 2		Analysis Time..: 10:52		
Antimony	**1.6 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER610Q**
		Dilution Factor: 2		Analysis Time..: 10:52		
Barium	**22.0 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER6106**
		Dilution Factor: 2		Analysis Time..: 16:51		
Selenium	ND Q,D	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER610R
		Dilution Factor: 2		Analysis Time..: 10:52		
Beryllium	ND Q,D	0.40	mg/kg	SW846 6010B	06/05-06/23/98	CHER6107
		Dilution Factor: 2		Analysis Time..: 16:51		
Thallium	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER610T
		Dilution Factor: 2		Analysis Time..: 10:52		
Calcium	**136000 Q,D,MB**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER6108**
		Dilution Factor: 2		Analysis Time..: 16:51		
Cadmium	**0.13 B,Q,D**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER610U**
		Dilution Factor: 2		Analysis Time..: 10:52		
Cobalt	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER6109
		Dilution Factor: 2		Analysis Time..: 16:51		
Chromium	**1.8 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER610A**
		Dilution Factor: 2		Analysis Time..: 16:51		
Copper	ND Q,D	4.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER610C
		Dilution Factor: 2		Analysis Time..: 16:51		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-2-18

TOTAL Metals

Lot-Sample #...: D8E230132-009 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	479 B,Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHER610E
		Dilution Factor: 2		Analysis Time..: 16:51		
Magnesium	1090 Q,D	40.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER610F
		Dilution Factor: 2		Analysis Time..: 16:51		
Manganese	16.7 Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER610G
		Dilution Factor: 2		Analysis Time..: 16:51		
Sodium	ND Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHER610H
		Dilution Factor: 2		Analysis Time..: 16:51		
Nickel	1.5 B,Q,D	8.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER610J
		Dilution Factor: 2		Analysis Time..: 16:51		
Vanadium	3.6 Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER610K
		Dilution Factor: 2		Analysis Time..: 16:51		
Zinc	4.9 Q,D	4.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER610L
		Dilution Factor: 2		Analysis Time..: 16:51		
Prep Batch #...: 8156293						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHER610V
		Dilution Factor: 1		Analysis Time..: 12:00		
Prep Batch #...: 8180198						
Iron	1480 D,Q	20.0	mg/kg	SW846 6010B	06/29-07/01/98	CHER620D
		Dilution Factor: 2		Analysis Time..: 18:04		

NOTE(S):

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

MBB This analyte is present at a reportable level in the associated method blank but is less than 5% of the sample amount.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-2

TOTAL Metals

Lot-Sample #...: D8E230132-010 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 11:50 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8156226						
Silver	ND	1.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER7104
		Dilution Factor: 1		Analysis Time..: 17:22		
Arsenic	**0.80 B**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER710N**
		Dilution Factor: 1		Analysis Time..: 12:11		
Aluminum	**3540**	**10.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER7105**
		Dilution Factor: 1		Analysis Time..: 17:22		
Lead	**2.0**	**0.30**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER710P**
		Dilution Factor: 1		Analysis Time..: 12:11		
Antimony	**0.90 B**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER710Q**
		Dilution Factor: 1		Analysis Time..: 12:11		
Barium	**10.2**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER7106**
		Dilution Factor: 1		Analysis Time..: 17:22		
Selenium	**0.61**	**0.50**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER710R**
		Dilution Factor: 1		Analysis Time..: 12:11		
Beryllium	**0.25**	**0.20**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER7107**
		Dilution Factor: 1		Analysis Time..: 17:22		
Thallium	ND	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER710T
		Dilution Factor: 1		Analysis Time..: 12:11		
Calcium	**67600 MBB**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER7108**
		Dilution Factor: 1		Analysis Time..: 17:22		
Cadmium	**0.17 B**	**0.50**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER710U**
		Dilution Factor: 1		Analysis Time..: 12:11		
Cobalt	**1.4**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER7109**
		Dilution Factor: 1		Analysis Time..: 17:22		
Chromium	**4.5**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER710A**
		Dilution Factor: 1		Analysis Time..: 17:22		
Copper	**1.9 B**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER710C**
		Dilution Factor: 1		Analysis Time..: 17:22		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-2

TOTAL Metals

Lot-Sample #...: D8E230132-010 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	**955**	**500**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER710E**
		Dilution Factor: 1		Analysis Time..: 17:22		
Magnesium	**2530**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER710F**
		Dilution Factor: 1		Analysis Time..: 17:22		
Manganese	**80.8**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER710G**
		Dilution Factor: 1		Analysis Time..: 17:22		
Sodium	**920**	**500**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER710H**
		Dilution Factor: 1		Analysis Time..: 17:22		
Nickel	**3.9 B**	**4.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER710J**
		Dilution Factor: 1		Analysis Time..: 17:22		
Vanadium	**7.0**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER710K**
		Dilution Factor: 1		Analysis Time..: 17:22		
Zinc	**9.0**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER710L**
		Dilution Factor: 1		Analysis Time..: 17:22		
Prep Batch #...: 8156293						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHER710V
		Dilution Factor: 1		Analysis Time..: 12:00		
Prep Batch #...: 8180198						
Iron	**3960**	**10.0**	**mg/kg**	**SW846 6010B**	**06/29-07/01/98**	**CHER720D**
		Dilution Factor: 1		Analysis Time..: 18:08		

NOTE(S):

B Estimated result. Result is less than RL.

MBB This analyte is present at a reportable level in the associated method blank but is less than 5% of the sample amount.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-8

TOTAL Metals

Lot-Sample #...: D8E230132-011 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 12:15 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8156226						
Silver	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER8104
		Dilution Factor: 2		Analysis Time..: 17:25		
Arsenic	**1.4 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER810N**
		Dilution Factor: 2		Analysis Time..: 11:08		
Aluminum	**2220 Q,D**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER8105**
		Dilution Factor: 2		Analysis Time..: 17:25		
Lead	**1.2 Q,D**	**0.60**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER810P**
		Dilution Factor: 2		Analysis Time..: 11:08		
Antimony	**1.7 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER810Q**
		Dilution Factor: 2		Analysis Time..: 11:08		
Barium	**4.4 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER8106**
		Dilution Factor: 2		Analysis Time..: 17:25		
Selenium	ND Q,D	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER810R
		Dilution Factor: 2		Analysis Time..: 11:08		
Beryllium	ND Q,D	0.40	mg/kg	SW846 6010B	06/05-06/23/98	CHER8107
		Dilution Factor: 2		Analysis Time..: 17:25		
Thallium	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/08/98	CHER810T
		Dilution Factor: 2		Analysis Time..: 11:08		
Calcium	**136000 Q,D,MB**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER8108**
		Dilution Factor: 2		Analysis Time..: 17:25		
Cadmium	**0.15 B,Q,D**	**1.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHER810U**
		Dilution Factor: 2		Analysis Time..: 11:08		
Cobalt	**1.3 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER8109**
		Dilution Factor: 2		Analysis Time..: 17:25		
Chromium	**1.9 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER810A**
		Dilution Factor: 2		Analysis Time..: 17:25		
Copper	**1.8 B,Q,D**	**4.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHER810C**
		Dilution Factor: 2		Analysis Time..: 17:25		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-8

TOTAL Metals

Lot-Sample #...: D8E230132-011 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	540 B,Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHER810E
		Dilution Factor: 2		Analysis Time..: 17:25		
Magnesium	2600 Q,D	40.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER810F
		Dilution Factor: 2		Analysis Time..: 17:25		
Manganese	23.8 Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER810G
		Dilution Factor: 2		Analysis Time..: 17:25		
Sodium	1310 Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHER810H
		Dilution Factor: 2		Analysis Time..: 17:25		
Nickel	2.5 B,Q,D	8.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER810J
		Dilution Factor: 2		Analysis Time..: 17:25		
Vanadium	5.2 Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER810K
		Dilution Factor: 2		Analysis Time..: 17:25		
Zinc	7.5 Q,D	4.0	mg/kg	SW846 6010B	06/05-06/23/98	CHER810L
		Dilution Factor: 2		Analysis Time..: 17:25		
Prep Batch #...: 8156293						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHER810V
		Dilution Factor: 1		Analysis Time..: 12:00		
Prep Batch #...: 8180198						
Iron	2500 D,Q	20.0	mg/kg	SW846 6010B	06/29-07/01/98	CHER820D
		Dilution Factor: 2		Analysis Time..: 18:10		

NOTE(S):

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

MBB This analyte is present at a reportable level in the associated method blank but is less than 5% of the sample amount.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-2

TOTAL Metals

Lot-Sample #...: D8E230132-012 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 13:00 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8156226						
Silver	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHERA104
		Dilution Factor: 2		Analysis Time..: 17:27		
Arsenic	**0.98 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHERA10N**
		Dilution Factor: 2		Analysis Time..: 11:36		
Aluminum	**994 Q,D**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHERA105**
		Dilution Factor: 2		Analysis Time..: 17:27		
Lead	**0.48 B,Q,D**	**0.60**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHERA10P**
		Dilution Factor: 2		Analysis Time..: 11:36		
Antimony	**1.6 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/08/98**	**CHERA10Q**
		Dilution Factor: 2		Analysis Time..: 11:36		
Barium	**10.9 Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHERA106**
		Dilution Factor: 2		Analysis Time..: 17:27		
Selenium	ND Q,D	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHERA10R
		Dilution Factor: 2		Analysis Time..: 11:36		
Beryllium	ND Q,D	0.40	mg/kg	SW846 6010B	06/05-06/23/98	CHERA107
		Dilution Factor: 2		Analysis Time..: 17:27		
Thallium	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/08/98	CHERA10T
		Dilution Factor: 2		Analysis Time..: 11:36		
Calcium	**146000 Q,D,MB**	**40.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHERA108**
		Dilution Factor: 2		Analysis Time..: 17:27		
Cadmium	ND Q,D	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHERA10U
		Dilution Factor: 2		Analysis Time..: 11:36		
Cobalt	ND Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHERA109
		Dilution Factor: 2		Analysis Time..: 17:27		
Chromium	**1.5 B,Q,D**	**2.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHERA10A**
		Dilution Factor: 2		Analysis Time..: 17:27		
Copper	ND Q,D	4.0	mg/kg	SW846 6010B	06/05-06/23/98	CHERA10C
		Dilution Factor: 2		Analysis Time..: 17:27		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-2

TOTAL Metals

Lot-Sample #...: D8E230132-012 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	208 B,Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHERA10E
		Dilution Factor: 2		Analysis Time..: 17:27		
Magnesium	718 Q,D	40.0	mg/kg	SW846 6010B	06/05-06/23/98	CHERA10F
		Dilution Factor: 2		Analysis Time..: 17:27		
Manganese	15.7 Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHERA10G
		Dilution Factor: 2		Analysis Time..: 17:27		
Sodium	480 B,Q,D	1000	mg/kg	SW846 6010B	06/05-06/23/98	CHERA10H
		Dilution Factor: 2		Analysis Time..: 17:27		
Nickel	1.2 B,Q,D	8.0	mg/kg	SW846 6010B	06/05-06/23/98	CHERA10J
		Dilution Factor: 2		Analysis Time..: 17:27		
Vanadium	2.1 Q,D	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHERA10K
		Dilution Factor: 2		Analysis Time..: 17:27		
Zinc	3.3 B,Q,D	4.0	mg/kg	SW846 6010B	06/05-06/23/98	CHERA10L
		Dilution Factor: 2		Analysis Time..: 17:27		
Prep Batch #...: 8156245						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHERA10V
		Dilution Factor: 1		Analysis Time..: 12:00		
Prep Batch #...: 8180198						
Iron	569 D,Q	20.0	mg/kg	SW846 6010B	06/29-07/01/98	CHERA20D
		Dilution Factor: 2		Analysis Time..: 18:13		

NOTE(S):

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

MBB This analyte is present at a reportable level in the associated method blank but is less than 5% of the sample amount.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-GW-8

TOTAL Metals

Lot-Sample #...: D8E230132-013 **Matrix.....:** WATER
Date Sampled...: 05/21/98 12:30 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8155208						
Antimony	**0.032 D,Q**	**0.020**	**mg/L**	**SW846 6010B**	**06/04-06/08/98**	**CHERC10N**
		Dilution Factor: 2		Analysis Time..: 09:16		
Arsenic	**0.017 B,D,Q**	**0.020**	**mg/L**	**SW846 6010B**	**06/04-06/08/98**	**CHERC10P**
		Dilution Factor: 2		Analysis Time..: 09:16		
Cadmium	ND D,Q	0.010	mg/L	SW846 6010B	06/04-06/08/98	CHERC10Q
		Dilution Factor: 2		Analysis Time..: 09:16		
Lead	ND G,D,Q	0.014	mg/L	SW846 6010B	06/04-06/08/98	CHERC10R
		Dilution Factor: 2		Analysis Time..: 09:16		
Selenium	ND G,D,Q	0.017	mg/L	SW846 6010B	06/04-06/08/98	CHERC10T
		Dilution Factor: 2		Analysis Time..: 09:16		
Thallium	ND D,Q	0.020	mg/L	SW846 6010B	06/04-06/08/98	CHERC10U
		Dilution Factor: 2		Analysis Time..: 09:16		
Silver	ND D,Q	0.050	mg/L	SW846 6010B	06/04-06/11/98	CHERC105
		Dilution Factor: 5		Analysis Time..: 22:54		
Aluminum	ND D,Q	0.50	mg/L	SW846 6010B	06/04-06/11/98	CHERC106
		Dilution Factor: 5		Analysis Time..: 22:54		
Barium	ND D,Q	0.050	mg/L	SW846 6010B	06/04-06/11/98	CHERC107
		Dilution Factor: 5		Analysis Time..: 22:54		
Beryllium	ND D,Q	0.010	mg/L	SW846 6010B	06/04-06/11/98	CHERC108
		Dilution Factor: 5		Analysis Time..: 22:54		
Calcium	**799 D,Q**	**1.0**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERC109**
		Dilution Factor: 5		Analysis Time..: 22:54		
Cobalt	ND D,Q	0.050	mg/L	SW846 6010B	06/04-06/11/98	CHERC10A
		Dilution Factor: 5		Analysis Time..: 22:54		
Chromium	ND D,Q	0.050	mg/L	SW846 6010B	06/04-06/11/98	CHERC10C
		Dilution Factor: 5		Analysis Time..: 22:54		
Copper	**0.014 B,D,Q**	**0.10**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERC10D**
		Dilution Factor: 5		Analysis Time..: 22:54		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-4-GW-8

TOTAL Metals

Lot-Sample #...: D8E230132-013 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**0.63 D,Q**	**0.50**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERC10E**
		Dilution Factor: 5		Analysis Time..: 22:54		
Potassium	**54.6 D,Q**	**25.0**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERC10F**
		Dilution Factor: 5		Analysis Time..: 22:54		
Magnesium	**1660 D,Q**	**1.0**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERC10G**
		Dilution Factor: 5		Analysis Time..: 22:54		
Manganese	**0.36 D,Q**	**0.050**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERC10H**
		Dilution Factor: 5		Analysis Time..: 22:54		
Sodium	**9490 D,Q**	**25.0**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERC10J**
		Dilution Factor: 5		Analysis Time..: 22:54		
Nickel	ND D,Q	0.20	mg/L	SW846 6010B	06/04-06/11/98	CHERC10K
		Dilution Factor: 5		Analysis Time..: 22:54		
Vanadium	ND D,Q	0.050	mg/L	SW846 6010B	06/04-06/11/98	CHERC10L
		Dilution Factor: 5		Analysis Time..: 22:54		
Zinc	ND D,Q	0.10	mg/L	SW846 6010B	06/04-06/11/98	CHERC10M
		Dilution Factor: 5		Analysis Time..: 22:54		
Prep Batch #...: 8158124						
Mercury	ND	0.00020	mg/L	SW846 7470A	06/08/98	CHERC10V
		Dilution Factor: 1		Analysis Time..: 11:00		

NOTE(S):

D Result was obtained from the analysis of a dilution.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-GW-7

TOTAL Metals

Lot-Sample #...: D8E230132-014 **Matrix.....:** WATER
Date Sampled...: 05/21/98 14:30 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8155208						
Antimony	**0.034 D,Q**	**0.020**	**mg/L**	**SW846 6010B**	**06/04-06/08/98**	**CHERE10N**
		Dilution Factor: 2		Analysis Time..: 09:20		
Arsenic	**0.032 D,Q**	**0.020**	**mg/L**	**SW846 6010B**	**06/04-06/08/98**	**CHERE10P**
		Dilution Factor: 2		Analysis Time..: 09:20		
Cadmium	ND D,Q	0.010	mg/L	SW846 6010B	06/04-06/08/98	CHERE10Q
		Dilution Factor: 2		Analysis Time..: 09:20		
Lead	ND G,D,Q	0.014	mg/L	SW846 6010B	06/04-06/08/98	CHERE10R
		Dilution Factor: 2		Analysis Time..: 09:20		
Selenium	ND G,D,Q	0.026	mg/L	SW846 6010B	06/04-06/08/98	CHERE10T
		Dilution Factor: 2		Analysis Time..: 09:20		
Thallium	ND D,Q	0.020	mg/L	SW846 6010B	06/04-06/08/98	CHERE10U
		Dilution Factor: 2		Analysis Time..: 09:20		
Silver	ND D,Q	0.10	mg/L	SW846 6010B	06/04-06/11/98	CHERE105
		Dilution Factor: 10		Analysis Time..: 22:58		
Aluminum	ND D,Q	1.0	mg/L	SW846 6010B	06/04-06/11/98	CHERE106
		Dilution Factor: 10		Analysis Time..: 22:58		
Barium	ND D,Q	0.10	mg/L	SW846 6010B	06/04-06/11/98	CHERE107
		Dilution Factor: 10		Analysis Time..: 22:58		
Beryllium	ND D,Q	0.020	mg/L	SW846 6010B	06/04-06/11/98	CHERE108
		Dilution Factor: 10		Analysis Time..: 22:58		
Calcium	**828 D,Q**	**2.0**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERE109**
		Dilution Factor: 10		Analysis Time..: 22:58		
Cobalt	ND D,Q	0.10	mg/L	SW846 6010B	06/04-06/11/98	CHERE10A
		Dilution Factor: 10		Analysis Time..: 22:58		
Chromium	ND D,Q	0.10	mg/L	SW846 6010B	06/04-06/11/98	CHERE10C
		Dilution Factor: 10		Analysis Time..: 22:58		
Copper	ND D,Q	0.20	mg/L	SW846 6010B	06/04-06/11/98	CHERE10D
		Dilution Factor: 10		Analysis Time..: 22:58		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-GW-7

TOTAL Metals

Lot-Sample #...: D8E230132-014 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND D,Q	1.0	mg/L	SW846 6010B	06/04-06/11/98	CHERE10E
		Dilution Factor: 10		Analysis Time..: 22:58		
Potassium	**63.2 D,Q**	**50.0**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERE10F**
		Dilution Factor: 10		Analysis Time..: 22:58		
Magnesium	**1840 D,Q**	**2.0**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERE10G**
		Dilution Factor: 10		Analysis Time..: 22:58		
Manganese	**0.13 D,Q**	**0.10**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERE10H**
		Dilution Factor: 10		Analysis Time..: 22:58		
Sodium	**11600 D,Q**	**50.0**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERE10J**
		Dilution Factor: 10		Analysis Time..: 22:58		
Nickel	ND D,Q	0.40	mg/L	SW846 6010B	06/04-06/11/98	CHERE10K
		Dilution Factor: 10		Analysis Time..: 22:58		
Vanadium	ND D,Q	0.10	mg/L	SW846 6010B	06/04-06/11/98	CHERE10L
		Dilution Factor: 10		Analysis Time..: 22:58		
Zinc	ND D,Q	0.20	mg/L	SW846 6010B	06/04-06/11/98	CHERE10M
		Dilution Factor: 10		Analysis Time..: 22:58		

Prep Batch #...: 8158124

Mercury	ND	0.00020	mg/L	SW846 7470A	06/08/98	CHERE10V
		Dilution Factor: 1		Analysis Time..: 11:00		

NOTE(S):

D Result was obtained from the analysis of a dilution.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-GWDP-7

TOTAL Metals

Lot-Sample #...: D8E230132-015 **Matrix.....:** WATER
Date Sampled...: 05/21/98 14:30 **Date Received..:** 05/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8155208						
Antimony	**0.036 D,Q**	**0.020**	**mg/L**	**SW846 6010B**	**06/04-06/08/98**	**CHERF10N**
		Dilution Factor: 2		Analysis Time..: 09:24		
Arsenic	**0.029 D,Q**	**0.020**	**mg/L**	**SW846 6010B**	**06/04-06/08/98**	**CHERF10P**
		Dilution Factor: 2		Analysis Time..: 09:24		
Cadmium	**0.0012 B,D,Q**	**0.010**	**mg/L**	**SW846 6010B**	**06/04-06/08/98**	**CHERF10Q**
		Dilution Factor: 2		Analysis Time..: 09:24		
Lead	ND G,D,Q	0.015	mg/L	SW846 6010B	06/04-06/08/98	CHERF10R
		Dilution Factor: 2		Analysis Time..: 09:24		
Selenium	ND G,D,Q	0.023	mg/L	SW846 6010B	06/04-06/08/98	CHERF10T
		Dilution Factor: 2		Analysis Time..: 09:24		
Thallium	ND D,Q	0.020	mg/L	SW846 6010B	06/04-06/08/98	CHERF10U
		Dilution Factor: 2		Analysis Time..: 09:24		
Silver	ND D,Q	0.10	mg/L	SW846 6010B	06/04-06/11/98	CHERF105
		Dilution Factor: 10		Analysis Time..: 23:02		
Aluminum	ND D,Q	1.0	mg/L	SW846 6010B	06/04-06/11/98	CHERF106
		Dilution Factor: 10		Analysis Time..: 23:02		
Barium	ND D,Q	0.10	mg/L	SW846 6010B	06/04-06/11/98	CHERF107
		Dilution Factor: 10		Analysis Time..: 23:02		
Beryllium	ND D,Q	0.020	mg/L	SW846 6010B	06/04-06/11/98	CHERF108
		Dilution Factor: 10		Analysis Time..: 23:02		
Calcium	**823 D,Q**	**2.0**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERF109**
		Dilution Factor: 10		Analysis Time..: 23:02		
Cobalt	ND D,Q	0.10	mg/L	SW846 6010B	06/04-06/11/98	CHERF10A
		Dilution Factor: 10		Analysis Time..: 23:02		
Chromium	ND D,Q	0.10	mg/L	SW846 6010B	06/04-06/11/98	CHERF10C
		Dilution Factor: 10		Analysis Time..: 23:02		
Copper	ND D,Q	0.20	mg/L	SW846 6010B	06/04-06/11/98	CHERF10D
		Dilution Factor: 10		Analysis Time..: 23:02		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: RITA-3-GWDP-7

TOTAL Metals

Lot-Sample #...: D8E230132-015 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND D,Q	1.0	mg/L	SW846 6010B	06/04-06/11/98	CHERF10E
		Dilution Factor: 10		Analysis Time..: 23:02		
Potassium	**63.8 D,Q**	**50.0**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERF10F**
		Dilution Factor: 10		Analysis Time..: 23:02		
Magnesium	**1830 D,Q**	**2.0**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERF10G**
		Dilution Factor: 10		Analysis Time..: 23:02		
Manganese	**0.11 D,Q**	**0.10**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERF10H**
		Dilution Factor: 10		Analysis Time..: 23:02		
Sodium	**11600 D,Q**	**50.0**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERF10J**
		Dilution Factor: 10		Analysis Time..: 23:02		
Nickel	ND D,Q	0.40	mg/L	SW846 6010B	06/04-06/11/98	CHERF10K
		Dilution Factor: 10		Analysis Time..: 23:02		
Vanadium	**0.042 B,D,Q**	**0.10**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHERF10L**
		Dilution Factor: 10		Analysis Time..: 23:02		
Zinc	ND D,Q	0.20	mg/L	SW846 6010B	06/04-06/11/98	CHERF10M
		Dilution Factor: 10		Analysis Time..: 23:02		

Prep Batch #...: 8158124

Mercury	ND	0.00020	mg/L	SW846 7470A	06/08/98	CHERF10V
		Dilution Factor: 1		Analysis Time..: 11:00		

NOTE(S):

D Result was obtained from the analysis of a dilution.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Quanterra

QC DATA ASSOCIATION SUMMARY

D8E230132

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8330		8154310	8154134
	SOLID	SW846 8270B		8154210	8154077
	SOLID	SW846 8260A		8176249	8176095
	SOLID	SW846 7471A		8156245	8156098
	SOLID	SW846 6010B		8156226	8156085
	SOLID	SW846 6010B		8180198	8180081
002	SOLID	SW846 8330		8154310	8154134
	SOLID	SW846 8270B		8154210	8154077
	SOLID	SW846 8260A		8166324	8166151
	SOLID	SW846 7471A		8156245	8156098
	SOLID	SW846 6010B		8156226	8156085
	SOLID	SW846 6010B		8180198	8180081
003	SOLID	SW846 8330		8154310	8154134
	SOLID	SW846 8270B		8154210	8154077
	SOLID	SW846 8260A		8166324	8166151
	SOLID	SW846 7471A		8156245	8156098
	SOLID	SW846 6010B		8156226	8156085
	SOLID	SW846 6010B		8180198	8180081
004	SOLID	SW846 8330		8154310	8154134
	SOLID	SW846 8270B		8154210	8154077
	SOLID	SW846 8260A		8166324	8166151
	SOLID	SW846 7471A		8156249	8156100
	SOLID	SW846 6010B		8156226	8156085
	SOLID	SW846 6010B		8180198	8180081
005	SOLID	SW846 8330		8154310	8154134
	SOLID	SW846 8270B		8154210	8154077
	SOLID	SW846 8260A		8166324	8166151
	SOLID	SW846 7471A		8156249	8156100
	SOLID	SW846 6010B		8156226	8156085
	SOLID	SW846 6010B		8180198	8180081
006	SOLID	SW846 8330		8154310	8154134
	SOLID	SW846 8270B		8154210	8154077
	SOLID	SW846 8260A		8166324	8166151
	SOLID	SW846 7471A		8156249	8156100
	SOLID	SW846 6010B		8156226	8156085
	SOLID	SW846 6010B		8180198	8180081

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Quanterra

QC DATA ASSOCIATION SUMMARY

D8E230132

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
007	SOLID	SW846 8330		8154310	8154134
	SOLID	SW846 8270B		8154210	8154077
	SOLID	SW846 8260A		8166324	8166151
	SOLID	SW846 7471A		8156249	8156100
	SOLID	SW846 6010B		8156226	8156085
	SOLID	SW846 6010B		8180198	8180081
008	SOLID	SW846 8330		8154310	8154134
	SOLID	SW846 8270B		8154210	8154077
	SOLID	SW846 8260A		8166324	8166151
	SOLID	SW846 7471A		8156293	8156126
	SOLID	SW846 6010B		8156226	8156085
	SOLID	SW846 6010B		8180198	8180081
009	SOLID	SW846 8330		8154310	8154134
	SOLID	SW846 8270B		8154210	8154077
	SOLID	SW846 8260A		8166324	8166151
	SOLID	SW846 7471A		8156293	8156126
	SOLID	SW846 6010B		8156226	8156085
	SOLID	SW846 6010B		8180198	8180081
010	SOLID	SW846 8330		8154310	8154134
	SOLID	SW846 8270B		8154210	8154077
	SOLID	SW846 8260A		8166324	8166151
	SOLID	SW846 7471A		8156293	8156126
	SOLID	SW846 6010B		8156226	8156085
	SOLID	SW846 6010B		8180198	8180081
011	SOLID	SW846 8330		8154310	8154134
	SOLID	SW846 8270B		8154210	8154077
	SOLID	SW846 8270B		8162184	8162059
	SOLID	SW846 8260A		8166324	8166151
	SOLID	SW846 7471A		8156293	8156126
	SOLID	SW846 6010B		8156226	8156085
	SOLID	SW846 6010B		8180198	8180081
012	SOLID	SW846 8330		8154310	8154134
	SOLID	SW846 8270B		8154210	8154077
	SOLID	SW846 8260A		8166324	8166151
	SOLID	SW846 7471A		8156245	8156098
	SOLID	SW846 6010B		8156226	8156085
	SOLID	SW846 6010B		8180198	8180081

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Quanterra

QC DATA ASSOCIATION SUMMARY

D8E230132

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
013	WATER	SW846 8330		8148183	8168080
	WATER	SW846 8270B		8148221	8148126
	WATER	SW846 8260A		8156305	8156130
	WATER	SW846 7470A		8158124	8158017
	WATER	SW846 6010B		8155208	8155073
014	WATER	SW846 8330		8148183	8168080
	WATER	SW846 8270B		8148221	8148126
	WATER	SW846 8260A		8156305	8156130
	WATER	SW846 7470A		8158124	8158017
	WATER	SW846 6010B		8155208	8155073
015	WATER	SW846 8330		8148183	8168080
	WATER	SW846 8270B		8148221	8148126
	WATER	SW846 8260A		8156305	8156130
	WATER	SW846 7470A		8158124	8158017
	WATER	SW846 6010B		8155208	8155073

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CHRGX102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8F050000-305 CHRGX103-LCSD
Prep Date.....: 06/04/98 **Analysis Date..:** 06/04/98
Prep Batch #...: 8156305 **Analysis Time..:** 11:48
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**10.0**	**10.6**	**ug/L**	**106**		**SW846 8260A**
	10.0	**10.5**	**ug/L**	**105**	**0.88**	**SW846 8260A**
Chlorobenzene	**10.0**	**10.7**	**ug/L**	**107**		**SW846 8260A**
	10.0	**10.6**	**ug/L**	**106**	**1.2**	**SW846 8260A**
1,1-Dichloroethene	**10.0**	**11.6**	**ug/L**	**116**		**SW846 8260A**
	10.0	**11.6**	**ug/L**	**116**	**0.22**	**SW846 8260A**
Toluene	**10.0**	**10.8**	**ug/L**	**108**		**SW846 8260A**
	10.0	**10.6**	**ug/L**	**106**	**1.5**	**SW846 8260A**
Trichloroethene	**10.0**	**10.8**	**ug/L**	**108**		**SW846 8260A**
	10.0	**10.6**	**ug/L**	**106**	**1.9**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(78 - 113)
	98	(78 - 113)
4-Bromofluorobenzene	102	(88 - 113)
	102	(88 - 113)
Toluene-d8	101	(90 - 108)
	101	(90 - 108)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CJ260102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: D8F150000-324 CJ260103-LCSD
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 11:50
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**50.0**	**48.9**	**ug/kg**	**98**		**SW846 8260A**
	50.0	**48.7**	**ug/kg**	**97**	**0.44**	**SW846 8260A**
Chlorobenzene	**50.0**	**51.0**	**ug/kg**	**102**		**SW846 8260A**
	50.0	**49.6**	**ug/kg**	**99**	**2.7**	**SW846 8260A**
1,1-Dichloroethene	**50.0**	**53.6**	**ug/kg**	**107**		**SW846 8260A**
	50.0	**52.5**	**ug/kg**	**105**	**2.2**	**SW846 8260A**
Toluene	**50.0**	**48.7**	**ug/kg**	**97**		**SW846 8260A**
	50.0	**47.8**	**ug/kg**	**96**	**1.9**	**SW846 8260A**
Trichloroethene	**50.0**	**49.8**	**ug/kg**	**100**		**SW846 8260A**
	50.0	**49.8**	**ug/kg**	**100**	**0.18**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	89	(77 - 115)
	88	(77 - 115)
4-Bromofluorobenzene	95	(90 - 113)
	93	(90 - 113)
Toluene-d8	95	(86 - 115)
	95	(86 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CJC2K102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: D8F250000-249 CJC2K103-LCSD
Prep Date.....: 06/02/98 **Analysis Date..:** 06/02/98
Prep Batch #...: 8176249 **Analysis Time..:** 14:58
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**50.0**	**44.4**	**ug/kg**	**89**		**SW846 8260A**
	50.0	**44.3**	**ug/kg**	**89**	**0.18**	**SW846 8260A**
Chlorobenzene	**50.0**	**46.8**	**ug/kg**	**94**		**SW846 8260A**
	50.0	**46.2**	**ug/kg**	**92**	**1.3**	**SW846 8260A**
1,1-Dichloroethene	**50.0**	**43.9**	**ug/kg**	**88**		**SW846 8260A**
	50.0	**43.1**	**ug/kg**	**86**	**1.8**	**SW846 8260A**
Toluene	**50.0**	**44.8**	**ug/kg**	**90**		**SW846 8260A**
	50.0	**44.4**	**ug/kg**	**89**	**0.89**	**SW846 8260A**
Trichloroethene	**50.0**	**45.9**	**ug/kg**	**92**		**SW846 8260A**
	50.0	**46.1**	**ug/kg**	**92**	**0.43**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(77 - 115)
	91	(77 - 115)
4-Bromofluorobenzene	94	(90 - 113)
	93	(90 - 113)
Toluene-d8	95	(86 - 115)
	94	(86 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CHRGX102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8F050000-305 CHRGX103-LCSD
Prep Date.....: 06/04/98 **Analysis Date..:** 06/04/98
Prep Batch #...: 8156305 **Analysis Time..:** 11:48
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**106**	**(85 - 115)**			**SW846 8260A**
	105	**(85 - 115)**	**0.88**	**(0-20)**	**SW846 8260A**
Chlorobenzene	**107**	**(91 - 112)**			**SW846 8260A**
	106	**(91 - 112)**	**1.2**	**(0-20)**	**SW846 8260A**
1,1-Dichloroethene	**116**	**(69 - 126)**			**SW846 8260A**
	116	**(69 - 126)**	**0.22**	**(0-20)**	**SW846 8260A**
Toluene	**108**	**(89 - 112)**			**SW846 8260A**
	106	**(89 - 112)**	**1.5**	**(0-20)**	**SW846 8260A**
Trichloroethene	**108**	**(85 - 111)**			**SW846 8260A**
	106	**(85 - 111)**	**1.9**	**(0-20)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(78 - 113)
	98	(78 - 113)
4-Bromofluorobenzene	102	(88 - 113)
	102	(88 - 113)
Toluene-d8	101	(90 - 108)
	101	(90 - 108)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CJ260102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: D8F150000-324 CJ260103-LCSD
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 11:50
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**98**	**(85 - 116)**			**SW846 8260A**
	97	**(85 - 116)**	**0.44**	**(0-20)**	**SW846 8260A**
Chlorobenzene	**102**	**(83 - 120)**			**SW846 8260A**
	99	**(83 - 120)**	**2.7**	**(0-20)**	**SW846 8260A**
1,1-Dichloroethene	**107**	**(68 - 134)**			**SW846 8260A**
	105	**(68 - 134)**	**2.2**	**(0-20)**	**SW846 8260A**
Toluene	**97**	**(86 - 119)**			**SW846 8260A**
	96	**(86 - 119)**	**1.9**	**(0-20)**	**SW846 8260A**
Trichloroethene	**100**	**(81 - 116)**			**SW846 8260A**
	100	**(81 - 116)**	**0.18**	**(0-20)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	89	(77 - 115)
	88	(77 - 115)
4-Bromofluorobenzene	95	(90 - 113)
	93	(90 - 113)
Toluene-d8	95	(86 - 115)
	95	(86 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CJC2K102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: D8F250000-249 CJC2K103-LCSD
Prep Date.....: 06/02/98 **Analysis Date..:** 06/02/98
Prep Batch #...: 8176249 **Analysis Time..:** 14:58
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**89**	**(85 - 116)**			**SW846 8260A**
	89	**(85 - 116)**	**0.18**	**(0-20)**	**SW846 8260A**
Chlorobenzene	**94**	**(83 - 120)**			**SW846 8260A**
	92	**(83 - 120)**	**1.3**	**(0-20)**	**SW846 8260A**
1,1-Dichloroethene	**88**	**(68 - 134)**			**SW846 8260A**
	86	**(68 - 134)**	**1.8**	**(0-20)**	**SW846 8260A**
Toluene	**90**	**(86 - 119)**			**SW846 8260A**
	89	**(86 - 119)**	**0.89**	**(0-20)**	**SW846 8260A**
Trichloroethene	**92**	**(81 - 116)**			**SW846 8260A**
	92	**(81 - 116)**	**0.43**	**(0-20)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(77 - 115)
	91	(77 - 115)
4-Bromofluorobenzene	94	(90 - 113)
	93	(90 - 113)
Toluene-d8	95	(86 - 115)
	94	(86 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CJ260101 **Matrix.....:** SOLID
MB Lot-Sample #: D8F150000-324

Prep Date.....: 05/30/98 **Analysis Time..:** 13:04
Analysis Date..: 05/30/98 **Prep Batch #...:** 8166324
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**7.2 J**	**20**	**ug/kg**	**SW846 8260A**
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A
2-Butanone (MEK)	ND	20	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(77 - 115)
4-Bromofluorobenzene	91	(90 - 113)
Toluene-d8	97	(86 - 115)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CJ260101 **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

Quanterra

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CHRGX101 **Matrix.....:** WATER
MB Lot-Sample #: D8F050000-305

Prep Date.....: 06/04/98 **Analysis Time..:** 12:31
Analysis Date..: 06/04/98 **Prep Batch #...:** 8156305
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**7.7 J**	**10**	**ug/L**	**SW846 8260A**
Benzene	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Chlorodibromomethane	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
Chloromethane	ND	2.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
2-Hexanone	ND	5.0	ug/L	SW846 8260A
Methylene chloride	**0.37 J**	**1.0**	**ug/L**	**SW846 8260A**
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
2-Butanone (MEK)	ND	5.0	ug/L	SW846 8260A
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(78 - 113)
4-Bromofluorobenzene	101	(88 - 113)
Toluene-d8	101	(90 - 108)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CHRGX101 **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CJC2K101 **Matrix.....:** SOLID
MB Lot-Sample #: D8F250000-249

Prep Date.....: 06/02/98 **Analysis Time..:** 15:46
Analysis Date..: 06/02/98 **Prep Batch #...:** 8176249
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**15 J**	**20**	**ug/kg**	**SW846 8260A**
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Methylene chloride	**1.1 J**	**5.0**	**ug/kg**	**SW846 8260A**
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A
2-Butanone (MEK)	ND	20	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	91	(77 - 115)
4-Bromofluorobenzene	94	(90 - 113)
Toluene-d8	96	(86 - 115)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CJC2K101 **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CHEQW12E-MS **Matrix.....:** SOLID
MS Lot-Sample #: D8E230132-001 CHEQW12F-MSD
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98
Prep Date.....: 06/02/98 **Analysis Date..:** 06/02/98
Prep Batch #...: 8176249 **Analysis Time..:** 16:39
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**ND**	**50.0**	**45.3**	**ug/kg**	**91**		**SW846 8260A**
	ND	**50.0**	**45.0**	**ug/kg**	**90**	**0.52**	**SW846 8260A**
Chlorobenzene	**ND**	**50.0**	**48.3**	**ug/kg**	**97**		**SW846 8260A**
	ND	**50.0**	**47.2**	**ug/kg**	**94**	**2.2**	**SW846 8260A**
1,1-Dichloroethene	**ND**	**50.0**	**47.5**	**ug/kg**	**95**		**SW846 8260A**
	ND	**50.0**	**46.2**	**ug/kg**	**92**	**2.6**	**SW846 8260A**
Toluene	**ND**	**50.0**	**47.3**	**ug/kg**	**95**		**SW846 8260A**
	ND	**50.0**	**46.3**	**ug/kg**	**93**	**2.3**	**SW846 8260A**
Trichloroethene	**ND**	**50.0**	**47.4**	**ug/kg**	**95**		**SW846 8260A**
	ND	**50.0**	**46.9**	**ug/kg**	**94**	**1.1**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(77 - 115)
	90	(77 - 115)
4-Bromofluorobenzene	93	(90 - 113)
	93	(90 - 113)
Toluene-d8	97	(86 - 115)
	95	(86 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CHERA10M-MS **Matrix.....:** SOLID
MS Lot-Sample #: D8E230132-012 CHERA10W-MSD
Date Sampled...: 05/21/98 13:00 **Date Received..:** 05/23/98
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 18:28
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**ND**	**50.0**	**47.8**	**ug/kg**	**96**		**SW846 8260A**
	ND	**50.0**	**47.9**	**ug/kg**	**96**	**0.13**	**SW846 8260A**
Chlorobenzene	**ND**	**50.0**	**48.7**	**ug/kg**	**97**		**SW846 8260A**
	ND	**50.0**	**49.6**	**ug/kg**	**99**	**1.8**	**SW846 8260A**
1,1-Dichloroethene	**ND**	**50.0**	**52.7**	**ug/kg**	**105**		**SW846 8260A**
	ND	**50.0**	**55.4**	**ug/kg**	**111**	**5.1**	**SW846 8260A**
Toluene	**ND**	**50.0**	**47.2**	**ug/kg**	**94**		**SW846 8260A**
	ND	**50.0**	**48.7**	**ug/kg**	**97**	**3.0**	**SW846 8260A**
Trichloroethene	**ND**	**50.0**	**48.7**	**ug/kg**	**97**		**SW846 8260A**
	ND	**50.0**	**49.0**	**ug/kg**	**98**	**0.69**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(77 - 115)
	88	(77 - 115)
4-Bromofluorobenzene	94	(90 - 113)
	92	(90 - 113)
Toluene-d8	96	(86 - 115)
	97	(86 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CHHG811M-MS **Matrix.....:** WATER
MS Lot-Sample #: D8E280166-003 CHHG811N-MSD
Date Sampled...: 05/27/98 10:45 **Date Received..:** 05/28/98
Prep Date.....: 06/04/98 **Analysis Date..:** 06/04/98
Prep Batch #...: 8156305 **Analysis Time..:** 14:48
Dilution Factor: 4.16

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene		**41.7**	**43.2**	**ug/L**	**104**		**SW846 8260A**
		41.7	**43.1**	**ug/L**	**103**	**0.24**	**SW846 8260A**
Chlorobenzene		**41.7**	**43.3**	**ug/L**	**104**		**SW846 8260A**
		41.7	**43.6**	**ug/L**	**105**	**0.72**	**SW846 8260A**
1,1-Dichloroethene		**41.7**	**40.3**	**ug/L**	**97**		**SW846 8260A**
		41.7	**41.7**	**ug/L**	**100**	**3.5**	**SW846 8260A**
Toluene		**41.7**	**42.4**	**ug/L**	**102**		**SW846 8260A**
		41.7	**42.8**	**ug/L**	**103**	**0.94**	**SW846 8260A**
Trichloroethene	**160**	**41.7**	**190 a**	**ug/L**	**83**		**SW846 8260A**
	160	**41.7**	**190 a**	**ug/L**	**83**	**0.09**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(78 - 113)
	100	(78 - 113)
4-Bromofluorobenzene	103	(88 - 113)
	104	(88 - 113)
Toluene-d8	98	(90 - 108)
	99	(90 - 108)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

The Trichloroethene recovery is outside of control limits due to the concentration is the sample.

The Trichloroethene recovery is outside of control limits due the concentration in the sample.

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CHEQW12E-MS **Matrix.....:** SOLID
MS Lot-Sample #: D8E230132-001 CHEQW12F-MSD
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98
Prep Date.....: 06/02/98 **Analysis Date..:** 06/02/98
Prep Batch #...: 8176249 **Analysis Time..:** 16:39
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**91**	**(85 - 116)**			**SW846 8260A**
	90	**(85 - 116)**	**0.52**	**(0-20)**	**SW846 8260A**
Chlorobenzene	**97**	**(83 - 120)**			**SW846 8260A**
	94	**(83 - 120)**	**2.2**	**(0-20)**	**SW846 8260A**
1,1-Dichloroethene	**95**	**(68 - 134)**			**SW846 8260A**
	92	**(68 - 134)**	**2.6**	**(0-20)**	**SW846 8260A**
Toluene	**95**	**(86 - 119)**			**SW846 8260A**
	93	**(86 - 119)**	**2.3**	**(0-20)**	**SW846 8260A**
Trichloroethene	**95**	**(81 - 116)**			**SW846 8260A**
	94	**(81 - 116)**	**1.1**	**(0-20)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(77 - 115)
	90	(77 - 115)
4-Bromofluorobenzene	93	(90 - 113)
	93	(90 - 113)
Toluene-d8	97	(86 - 115)
	95	(86 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CHERA10M-MS **Matrix.....:** SOLID
MS Lot-Sample #: D8E230132-012 CHERA10W-MSD
Date Sampled...: 05/21/98 13:00 **Date Received..:** 05/23/98
Prep Date.....: 05/30/98 **Analysis Date..:** 05/30/98
Prep Batch #...: 8166324 **Analysis Time..:** 18:28
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**96**	**(85 - 116)**			**SW846 8260A**
	96	**(85 - 116)**	**0.13**	**(0-20)**	**SW846 8260A**
Chlorobenzene	**97**	**(83 - 120)**			**SW846 8260A**
	99	**(83 - 120)**	**1.8**	**(0-20)**	**SW846 8260A**
1,1-Dichloroethene	**105**	**(68 - 134)**			**SW846 8260A**
	111	**(68 - 134)**	**5.1**	**(0-20)**	**SW846 8260A**
Toluene	**94**	**(86 - 119)**			**SW846 8260A**
	97	**(86 - 119)**	**3.0**	**(0-20)**	**SW846 8260A**
Trichloroethene	**97**	**(81 - 116)**			**SW846 8260A**
	98	**(81 - 116)**	**0.69**	**(0-20)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(77 - 115)
	88	(77 - 115)
4-Bromofluorobenzene	94	(90 - 113)
	92	(90 - 113)
Toluene-d8	96	(86 - 115)
	97	(86 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D8E230132 **Work Order #...:** CHHG811M-MS **Matrix.....:** WATER
MS Lot-Sample #: D8E280166-003 CHHG811N-MSD
Date Sampled...: 05/27/98 10:45 **Date Received..:** 05/28/98
Prep Date.....: 06/04/98 **Analysis Date..:** 06/04/98
Prep Batch #...: 8156305 **Analysis Time..:** 14:48
Dilution Factor: 4.16

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**104**	**(85 - 115)**			**SW846 8260A**
	103	**(85 - 115)**	**0.24**	**(0-20)**	**SW846 8260A**
Chlorobenzene	**104**	**(91 - 112)**			**SW846 8260A**
	105	**(91 - 112)**	**0.72**	**(0-20)**	**SW846 8260A**
1,1-Dichloroethene	**97**	**(69 - 126)**			**SW846 8260A**
	100	**(69 - 126)**	**3.5**	**(0-20)**	**SW846 8260A**
Toluene	**102**	**(89 - 112)**			**SW846 8260A**
	103	**(89 - 112)**	**0.94**	**(0-20)**	**SW846 8260A**
Trichloroethene	**83 a**	**(85 - 111)**			**SW846 8260A**
	83 a	**(85 - 111)**	**0.09**	**(0-20)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(78 - 113)
	100	(78 - 113)
4-Bromofluorobenzene	103	(88 - 113)
	104	(88 - 113)
Toluene-d8	98	(90 - 108)
	99	(90 - 108)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

The Trichloroethene recovery is outside of control limits due to the concentration is the sample.

The Trichloroethene recovery is outside of control limits due the concentration in the sample.

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHH3V102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8E280000-221 CHH3V103-LCSD
Prep Date.....: 05/28/98 **Analysis Date..:** 06/24/98
Prep Batch #...: 8148221 **Analysis Time..:** 16:04
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	**100**	**81.0**	**ug/L**	**81**		**SW846 8270B**
	100	**75.2**	**ug/L**	**75**	**7.4**	**SW846 8270B**
4-Chloro-3-methylphenol	**150**	**121**	**ug/L**	**80**		**SW846 8270B**
	150	**117**	**ug/L**	**78**	**3.0**	**SW846 8270B**
2-Chlorophenol	**150**	**118**	**ug/L**	**79**		**SW846 8270B**
	150	**110**	**ug/L**	**74**	**7.1**	**SW846 8270B**
1,4-Dichlorobenzene	**100**	**59.0**	**ug/L**	**59**		**SW846 8270B**
	100	**58.8**	**ug/L**	**59**	**0.23**	**SW846 8270B**
2,4-Dinitrotoluene	**100**	**96.7**	**ug/L**	**97**		**SW846 8270B**
	100	**94.2**	**ug/L**	**94**	**2.5**	**SW846 8270B**
4-Nitrophenol	**150**	**119**	**ug/L**	**79**		**SW846 8270B**
	150	**117**	**ug/L**	**78**	**1.5**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**100**	**77.3**	**ug/L**	**77**		**SW846 8270B**
	100	**74.7**	**ug/L**	**75**	**3.5**	**SW846 8270B**
Pentachlorophenol	**150**	**118**	**ug/L**	**79**		**SW846 8270B**
	150	**111**	**ug/L**	**74**	**6.0**	**SW846 8270B**
Phenol	**150**	**111**	**ug/L**	**74**		**SW846 8270B**
	150	**104**	**ug/L**	**70**	**5.7**	**SW846 8270B**
Pyrene	**100**	**90.2**	**ug/L**	**90**		**SW846 8270B**
	100	**91.4**	**ug/L**	**91**	**1.2**	**SW846 8270B**
1,2,4-Trichlorobenzene	**100**	**67.4**	**ug/L**	**67**		**SW846 8270B**
	100	**65.0**	**ug/L**	**65**	**3.5**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(54 - 110)
	64	(54 - 110)
Phenol-d5	80	(49 - 131)
	74	(49 - 131)
Nitrobenzene-d5	79	(54 - 116)
	74	(54 - 116)
2-Fluorobiphenyl	74	(49 - 102)
	67	(49 - 102)
2,4,6-Tribromophenol	72	(46 - 127)
	71	(46 - 127)
Terphenyl-d14	92	(57 - 117)
	92	(57 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHN2A102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: D8F030000-210 CHN2A103-LCSD
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 15:59
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	**3330**	**3180**	**ug/kg**	**95**		**SW846 8270B**
	3330	**3340**	**ug/kg**	**100**	**5.1**	**SW846 8270B**
4-Chloro-3-methylphenol	**5000**	**4180**	**ug/kg**	**84**		**SW846 8270B**
	5000	**4460**	**ug/kg**	**89**	**6.5**	**SW846 8270B**
2-Chlorophenol	**5000**	**4350**	**ug/kg**	**87**		**SW846 8270B**
	5000	**4790**	**ug/kg**	**96**	**9.5**	**SW846 8270B**
1,4-Dichlorobenzene	**3330**	**2870**	**ug/kg**	**86**		**SW846 8270B**
	3330	**3070**	**ug/kg**	**92**	**6.7**	**SW846 8270B**
2,4-Dinitrotoluene	**3330**	**3810**	**ug/kg**	**114**		**SW846 8270B**
	3330	**4000**	**ug/kg**	**120**	**5.0**	**SW846 8270B**
4-Nitrophenol	**5000**	**4280**	**ug/kg**	**86**		**SW846 8270B**
	5000	**4420**	**ug/kg**	**88**	**3.3**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**3330**	**3150**	**ug/kg**	**94**		**SW846 8270B**
	3330	**3410**	**ug/kg**	**102**	**8.1**	**SW846 8270B**
Pentachlorophenol	**5000**	**4160**	**ug/kg**	**83**		**SW846 8270B**
	5000	**4730**	**ug/kg**	**95**	**13**	**SW846 8270B**
Phenol	**5000**	**4280**	**ug/kg**	**86**		**SW846 8270B**
	5000	**4650**	**ug/kg**	**93**	**8.1**	**SW846 8270B**
Pyrene	**3330**	**3070**	**ug/kg**	**92**		**SW846 8270B**
	3330	**3310**	**ug/kg**	**99**	**7.4**	**SW846 8270B**
1,2,4-Trichlorobenzene	**3330**	**2890**	**ug/kg**	**87**		**SW846 8270B**
	3330	**3010**	**ug/kg**	**90**	**4.0**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	85	(71 - 105)
	93	(71 - 105)
Phenol-d5	89	(58 - 120)
	98	(58 - 120)
Nitrobenzene-d5	85	(58 - 104)
	92	(58 - 104)
2-Fluorobiphenyl	86	(58 - 104)
	91	(58 - 104)
2,4,6-Tribromophenol	93	(63 - 109)
	99	(63 - 109)
Terphenyl-d14	100	(50 - 116)
	108	(50 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHWX6102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: D8F110000-184 CHWX6103-LCSD
Prep Date.....: 06/11/98 **Analysis Date..:** 06/15/98
Prep Batch #...: 8162184 **Analysis Time..:** 19:44
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	**3330**	**3160**	**ug/kg**	**95**		**SW846 8270B**
	3330	**3120**	**ug/kg**	**94**	**1.1**	**SW846 8270B**
4-Chloro-3-methylphenol	**5000**	**4090**	**ug/kg**	**82**		**SW846 8270B**
	5000	**3990**	**ug/kg**	**80**	**2.5**	**SW846 8270B**
2-Chlorophenol	**5000**	**4380**	**ug/kg**	**88**		**SW846 8270B**
	5000	**4500**	**ug/kg**	**90**	**2.8**	**SW846 8270B**
1,4-Dichlorobenzene	**3330**	**2830**	**ug/kg**	**85**		**SW846 8270B**
	3330	**2950**	**ug/kg**	**88**	**4.0**	**SW846 8270B**
2,4-Dinitrotoluene	**3330**	**3740**	**ug/kg**	**112**		**SW846 8270B**
	3330	**3670**	**ug/kg**	**110**	**1.7**	**SW846 8270B**
4-Nitrophenol	**5000**	**3950**	**ug/kg**	**79**		**SW846 8270B**
	5000	**3880**	**ug/kg**	**78**	**1.8**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**3330**	**2260**	**ug/kg**	**68**		**SW846 8270B**
	3330	**2470**	**ug/kg**	**74**	**8.9**	**SW846 8270B**
Pentachlorophenol	**5000**	**4440**	**ug/kg**	**89**		**SW846 8270B**
	5000	**4430**	**ug/kg**	**89**	**0.29**	**SW846 8270B**
Phenol	**5000**	**4180**	**ug/kg**	**84**		**SW846 8270B**
	5000	**4320**	**ug/kg**	**86**	**3.2**	**SW846 8270B**
Pyrene	**3330**	**3230**	**ug/kg**	**97**		**SW846 8270B**
	3330	**3280**	**ug/kg**	**98**	**1.4**	**SW846 8270B**
1,2,4-Trichlorobenzene	**3330**	**2840**	**ug/kg**	**85**		**SW846 8270B**
	3330	**2860**	**ug/kg**	**86**	**0.76**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	88	(71 - 105)
	91	(71 - 105)
Phenol-d5	93	(58 - 120)
	96	(58 - 120)
Nitrobenzene-d5	86	(58 - 104)
	89	(58 - 104)
2-Fluorobiphenyl	93	(58 - 104)
	92	(58 - 104)
2,4,6-Tribromophenol	94	(63 - 109)
	95	(63 - 109)
Terphenyl-d14	100	(50 - 116)
	100	(50 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHH3V102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8E280000-221 CHH3V103-LCSD
Prep Date.....: 05/28/98 **Analysis Date..:** 06/24/98
Prep Batch #...: 8148221 **Analysis Time..:** 16:04
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**81**	**(63 - 110)**			**SW846 8270B**
	75	**(63 - 110)**	**7.4**	**(0-20)**	**SW846 8270B**
4-Chloro-3-methylphenol	**80**	**(53 - 112)**			**SW846 8270B**
	78	**(53 - 112)**	**3.0**	**(0-20)**	**SW846 8270B**
2-Chlorophenol	**79**	**(59 - 105)**			**SW846 8270B**
	74	**(59 - 105)**	**7.1**	**(0-22)**	**SW846 8270B**
1,4-Dichlorobenzene	**59**	**(55 - 108)**			**SW846 8270B**
	59	**(55 - 108)**	**0.23**	**(0-27)**	**SW846 8270B**
2,4-Dinitrotoluene	**97**	**(69 - 124)**			**SW846 8270B**
	94	**(69 - 124)**	**2.5**	**(0-21)**	**SW846 8270B**
4-Nitrophenol	**79**	**(22 - 133)**			**SW846 8270B**
	78	**(22 - 133)**	**1.5**	**(0-32)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**77**	**(52 - 125)**			**SW846 8270B**
	75	**(52 - 125)**	**3.5**	**(0-20)**	**SW846 8270B**
Pentachlorophenol	**79**	**(49 - 112)**			**SW846 8270B**
	74	**(49 - 112)**	**6.0**	**(0-30)**	**SW846 8270B**
Phenol	**74**	**(46 - 107)**			**SW846 8270B**
	70	**(46 - 107)**	**5.7**	**(0-20)**	**SW846 8270B**
Pyrene	**90**	**(52 - 140)**			**SW846 8270B**
	91	**(52 - 140)**	**1.2**	**(0-20)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**67**	**(55 - 112)**			**SW846 8270B**
	65	**(55 - 112)**	**3.5**	**(0-27)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(54 - 110)
	64	(54 - 110)
Phenol-d5	80	(49 - 131)
	74	(49 - 131)
Nitrobenzene-d5	79	(54 - 116)
	74	(54 - 116)
2-Fluorobiphenyl	74	(49 - 102)
	67	(49 - 102)
2,4,6-Tribromophenol	72	(46 - 127)
	71	(46 - 127)
Terphenyl-d14	92	(57 - 117)
	92	(57 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHN2A102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: D8F030000-210 CHN2A103-LCSD
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 15:59
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**95**	**(65 - 118)**			**SW846 8270B**
	100	**(65 - 118)**	**5.1**	**(0-20)**	**SW846 8270B**
4-Chloro-3-methylphenol	**84**	**(64 - 108)**			**SW846 8270B**
	89	**(64 - 108)**	**6.5**	**(0-20)**	**SW846 8270B**
2-Chlorophenol	**87**	**(62 - 108)**			**SW846 8270B**
	96	**(62 - 108)**	**9.5**	**(0-20)**	**SW846 8270B**
1,4-Dichlorobenzene	**86**	**(65 - 109)**			**SW846 8270B**
	92	**(65 - 109)**	**6.7**	**(0-20)**	**SW846 8270B**
2,4-Dinitrotoluene	**114**	**(69 - 128)**			**SW846 8270B**
	120	**(69 - 128)**	**5.0**	**(0-20)**	**SW846 8270B**
4-Nitrophenol	**86**	**(38 - 126)**			**SW846 8270B**
	88	**(38 - 126)**	**3.3**	**(0-20)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**94**	**(58 - 123)**			**SW846 8270B**
	102	**(58 - 123)**	**8.1**	**(0-20)**	**SW846 8270B**
Pentachlorophenol	**83**	**(43 - 106)**			**SW846 8270B**
	95	**(43 - 106)**	**13**	**(0-20)**	**SW846 8270B**
Phenol	**86**	**(28 - 128)**			**SW846 8270B**
	93	**(28 - 128)**	**8.1**	**(0-20)**	**SW846 8270B**
Pyrene	**92**	**(53 - 131)**			**SW846 8270B**
	99	**(53 - 131)**	**7.4**	**(0-20)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**87**	**(64 - 120)**			**SW846 8270B**
	90	**(64 - 120)**	**4.0**	**(0-20)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	85	(71 - 105)
	93	(71 - 105)
Phenol-d5	89	(58 - 120)
	98	(58 - 120)
Nitrobenzene-d5	85	(58 - 104)
	92	(58 - 104)
2-Fluorobiphenyl	86	(58 - 104)
	91	(58 - 104)
2,4,6-Tribromophenol	93	(63 - 109)
	99	(63 - 109)
Terphenyl-d14	100	(50 - 116)
	108	(50 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHWX6102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: D8F110000-184 CHWX6103-LCSD
Prep Date.....: 06/11/98 **Analysis Date..:** 06/15/98
Prep Batch #...: 8162184 **Analysis Time..:** 19:44
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**95**	**(65 - 118)**			**SW846 8270B**
	94	**(65 - 118)**	**1.1**	**(0-20)**	**SW846 8270B**
4-Chloro-3-methylphenol	**82**	**(64 - 108)**			**SW846 8270B**
	80	**(64 - 108)**	**2.5**	**(0-20)**	**SW846 8270B**
2-Chlorophenol	**88**	**(62 - 108)**			**SW846 8270B**
	90	**(62 - 108)**	**2.8**	**(0-20)**	**SW846 8270B**
1,4-Dichlorobenzene	**85**	**(65 - 109)**			**SW846 8270B**
	88	**(65 - 109)**	**4.0**	**(0-20)**	**SW846 8270B**
2,4-Dinitrotoluene	**112**	**(69 - 128)**			**SW846 8270B**
	110	**(69 - 128)**	**1.7**	**(0-20)**	**SW846 8270B**
4-Nitrophenol	**79**	**(38 - 126)**			**SW846 8270B**
	78	**(38 - 126)**	**1.8**	**(0-20)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**68**	**(58 - 123)**			**SW846 8270B**
	74	**(58 - 123)**	**8.9**	**(0-20)**	**SW846 8270B**
Pentachlorophenol	**89**	**(43 - 106)**			**SW846 8270B**
	89	**(43 - 106)**	**0.29**	**(0-20)**	**SW846 8270B**
Phenol	**84**	**(28 - 128)**			**SW846 8270B**
	86	**(28 - 128)**	**3.2**	**(0-20)**	**SW846 8270B**
Pyrene	**97**	**(53 - 131)**			**SW846 8270B**
	98	**(53 - 131)**	**1.4**	**(0-20)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**85**	**(64 - 120)**			**SW846 8270B**
	86	**(64 - 120)**	**0.76**	**(0-20)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	88	(71 - 105)
	91	(71 - 105)
Phenol-d5	93	(58 - 120)
	96	(58 - 120)
Nitrobenzene-d5	86	(58 - 104)
	89	(58 - 104)
2-Fluorobiphenyl	93	(58 - 104)
	92	(58 - 104)
2,4,6-Tribromophenol	94	(63 - 109)
	95	(63 - 109)
Terphenyl-d14	100	(50 - 116)
	100	(50 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHH3V101 **Matrix.....:** WATER
MB Lot-Sample #: D8E280000-221
Prep Date.....: 05/28/98 **Analysis Time..:** 15:30
Analysis Date..: 06/24/98 **Prep Batch #...:** 8148221
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270B
Acenaphthylene	ND	10	ug/L	SW846 8270B
Anthracene	ND	10	ug/L	SW846 8270B
Benzo(a)anthracene	ND	10	ug/L	SW846 8270B
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270B
Benzo(a)pyrene	ND	10	ug/L	SW846 8270B
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270B
bis(2-Chloroethyl) ether	ND	10	ug/L	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270B
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270B
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270B
Carbazole	ND	10	ug/L	SW846 8270B
4-Chloroaniline	ND	10	ug/L	SW846 8270B
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270B
2-Chloronaphthalene	ND	10	ug/L	SW846 8270B
2-Chlorophenol	ND	10	ug/L	SW846 8270B
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270B
Chrysene	ND	10	ug/L	SW846 8270B
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270B
bis(2-Chloroisopropyl) ether	ND	10	ug/L	SW846 8270B
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270B
Dibenzofuran	ND	10	ug/L	SW846 8270B
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270B
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270B
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270B
Diethyl phthalate	ND	10	ug/L	SW846 8270B
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270B
Dimethyl phthalate	ND	10	ug/L	SW846 8270B
1,3-Dinitrobenzene	ND	10	ug/L	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270B
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHH3V101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270B
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270B
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270B
Fluoranthene	ND	10	ug/L	SW846 8270B
Fluorene	ND	10	ug/L	SW846 8270B
Hexachlorobenzene	ND	10	ug/L	SW846 8270B
Hexachlorobutadiene	ND	10	ug/L	SW846 8270B
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270B
Hexachloroethane	ND	10	ug/L	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270B
Isophorone	ND	10	ug/L	SW846 8270B
2-Methylnaphthalene	ND	10	ug/L	SW846 8270B
2-Methylphenol	ND	10	ug/L	SW846 8270B
4-Methylphenol	ND	10	ug/L	SW846 8270B
Naphthalene	ND	10	ug/L	SW846 8270B
2-Nitroaniline	ND	50	ug/L	SW846 8270B
3-Nitroaniline	ND	50	ug/L	SW846 8270B
4-Nitroaniline	ND	50	ug/L	SW846 8270B
Nitrobenzene	ND	10	ug/L	SW846 8270B
2-Nitrophenol	ND	10	ug/L	SW846 8270B
4-Nitrophenol	ND	50	ug/L	SW846 8270B
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270B
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270B
Pentachlorophenol	ND	50	ug/L	SW846 8270B
Phenacetin	ND	20	ug/L	SW846 8270B
Phenanthrene	ND	10	ug/L	SW846 8270B
Phenol	ND	10	ug/L	SW846 8270B
Pyrene	ND	10	ug/L	SW846 8270B
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270B
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270B
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	66	(54 - 110)
Phenol-d5	70	(49 - 131)
Nitrobenzene-d5	72	(54 - 116)
2-Fluorobiphenyl	68	(49 - 102)
2,4,6-Tribromophenol	64	(46 - 127)
Terphenyl-d14	92	(57 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHN2A101 **Matrix.....:** SOLID
MB Lot-Sample #: D8F030000-210
Prep Date.....: 06/03/98 **Analysis Time..:** 22:48
Analysis Date..: 06/10/98 **Prep Batch #...:** 8154210
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270B
Acenaphthylene	ND	330	ug/kg	SW846 8270B
Anthracene	ND	330	ug/kg	SW846 8270B
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270B
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270B
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethyl) ether	ND	330	ug/kg	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270B
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270B
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270B
Carbazole	ND	330	ug/kg	SW846 8270B
4-Chloroaniline	ND	330	ug/kg	SW846 8270B
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270B
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270B
2-Chlorophenol	ND	330	ug/kg	SW846 8270B
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270B
Chrysene	ND	330	ug/kg	SW846 8270B
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270B
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270B
Diallate	ND	660	ug/kg	SW846 8270B
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270B
Dibenzofuran	ND	330	ug/kg	SW846 8270B
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270B
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270B
Diethyl phthalate	ND	330	ug/kg	SW846 8270B
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270B
Dimethyl phthalate	ND	330	ug/kg	SW846 8270B
1,3-Dinitrobenzene	ND	330	ug/kg	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270B
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHN2A101 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270B
Fluoranthene	ND	330	ug/kg	SW846 8270B
Fluorene	ND	330	ug/kg	SW846 8270B
Hexachlorobenzene	ND	330	ug/kg	SW846 8270B
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270B
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270B
Hexachloroethane	ND	330	ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270B
Isophorone	ND	330	ug/kg	SW846 8270B
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270B
2-Methylphenol	ND	330	ug/kg	SW846 8270B
4-Methylphenol	ND	330	ug/kg	SW846 8270B
Naphthalene	ND	330	ug/kg	SW846 8270B
2-Nitroaniline	ND	1600	ug/kg	SW846 8270B
3-Nitroaniline	ND	1600	ug/kg	SW846 8270B
4-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Nitrobenzene	ND	330	ug/kg	SW846 8270B
2-Nitrophenol	ND	330	ug/kg	SW846 8270B
4-Nitrophenol	ND	1600	ug/kg	SW846 8270B
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270B
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270B
5-Nitro-o-toluidine	ND	660	ug/kg	SW846 8270B
Pentachlorophenol	ND	1600	ug/kg	SW846 8270B
Phenacetin	ND	660	ug/kg	SW846 8270B
Phenanthrene	ND	330	ug/kg	SW846 8270B
Phenol	ND	330	ug/kg	SW846 8270B
Pyrene	ND	330	ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270B
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	80	(71 - 105)
Phenol-d5	80	(58 - 120)
Nitrobenzene-d5	76	(58 - 104)
2-Fluorobiphenyl	89	(58 - 104)
2,4,6-Tribromophenol	87	(63 - 109)
Terphenyl-d14	100	(50 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHWX6101 **Matrix.....:** SOLID
MB Lot-Sample #: D8F110000-184
Prep Date.....: 06/11/98 **Analysis Time..:** 19:09
Analysis Date..: 06/15/98 **Prep Batch #...:** 8162184
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270B
Acenaphthylene	ND	330	ug/kg	SW846 8270B
Anthracene	ND	330	ug/kg	SW846 8270B
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270B
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270B
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethyl) ether	ND	330	ug/kg	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270B
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270B
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270B
Carbazole	ND	330	ug/kg	SW846 8270B
4-Chloroaniline	ND	330	ug/kg	SW846 8270B
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270B
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270B
2-Chlorophenol	ND	330	ug/kg	SW846 8270B
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270B
Chrysene	ND	330	ug/kg	SW846 8270B
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270B
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270B
Diallate	ND	660	ug/kg	SW846 8270B
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270B
Dibenzofuran	ND	330	ug/kg	SW846 8270B
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270B
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270B
Diethyl phthalate	ND	330	ug/kg	SW846 8270B
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270B
Dimethyl phthalate	ND	330	ug/kg	SW846 8270B
1,3-Dinitrobenzene	ND	330	ug/kg	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270B
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHWX6101 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270B
Fluoranthene	ND	330	ug/kg	SW846 8270B
Fluorene	ND	330	ug/kg	SW846 8270B
Hexachlorobenzene	ND	330	ug/kg	SW846 8270B
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270B
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270B
Hexachloroethane	ND	330	ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270B
Isophorone	ND	330	ug/kg	SW846 8270B
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270B
2-Methylphenol	ND	330	ug/kg	SW846 8270B
4-Methylphenol	ND	330	ug/kg	SW846 8270B
Naphthalene	ND	330	ug/kg	SW846 8270B
2-Nitroaniline	ND	1600	ug/kg	SW846 8270B
3-Nitroaniline	ND	1600	ug/kg	SW846 8270B
4-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Nitrobenzene	ND	330	ug/kg	SW846 8270B
2-Nitrophenol	ND	330	ug/kg	SW846 8270B
4-Nitrophenol	ND	1600	ug/kg	SW846 8270B
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270B
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270B
5-Nitro-o-toluidine	ND	660	ug/kg	SW846 8270B
Pentachlorophenol	ND	1600	ug/kg	SW846 8270B
Phenacetin	ND	660	ug/kg	SW846 8270B
Phenanthrene	ND	330	ug/kg	SW846 8270B
Phenol	ND	330	ug/kg	SW846 8270B
Pyrene	ND	330	ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270B
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	86	(71 - 105)
Phenol-d5	87	(58 - 120)
Nitrobenzene-d5	85	(58 - 104)
2-Fluorobiphenyl	91	(58 - 104)
2,4,6-Tribromophenol	86	(63 - 109)
Terphenyl-d14	92	(50 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHEQW10M-MS **Matrix.....:** SOLID
MS Lot-Sample #: D8E230132-001 CHEQW10W-MSD
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 17:42
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	ND	3330	3130	ug/kg	94		SW846 8270B
	ND	3330	2960	ug/kg	89	5.6	SW846 8270B
4-Chloro-3-methylphenol	ND	5000	4320	ug/kg	86		SW846 8270B
	ND	5000	3990	ug/kg	80	8.1	SW846 8270B
2-Chlorophenol	ND	5000	4490	ug/kg	90		SW846 8270B
	ND	5000	4070	ug/kg	81	9.8	SW846 8270B
1,4-Dichlorobenzene	ND	3330	2890	ug/kg	87		SW846 8270B
	ND	3330	2690	ug/kg	81	7.3	SW846 8270B
2,4-Dinitrotoluene	ND	3330	3840	ug/kg	115		SW846 8270B
	ND	3330	3520	ug/kg	105	8.7	SW846 8270B
4-Nitrophenol	ND	5000	4040	ug/kg	81		SW846 8270B
	ND	5000	3740	ug/kg	75	7.6	SW846 8270B
N-Nitrosodi-n-propylamine	ND	3330	3230	ug/kg	97		SW846 8270B
	ND	3330	2940	ug/kg	88	9.4	SW846 8270B
Pentachlorophenol	ND	5000	2450	ug/kg	49		SW846 8270B
	ND	5000	2360	ug/kg	47	4.0	SW846 8270B
Phenol	ND	5000	4350	ug/kg	87		SW846 8270B
	ND	5000	3970	ug/kg	79	9.1	SW846 8270B
Pyrene	ND	3330	3130	ug/kg	94		SW846 8270B
	ND	3330	2960	ug/kg	89	5.6	SW846 8270B
1,2,4-Trichlorobenzene	ND	3330	2940	ug/kg	88		SW846 8270B
	ND	3330	2680	ug/kg	80	9.3	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	88	(71 - 105)
	86	(71 - 105)
Phenol-d5	93	(58 - 120)
	88	(58 - 120)
Nitrobenzene-d5	87	(58 - 104)
	85	(58 - 104)
2-Fluorobiphenyl	88	(58 - 104)
	88	(58 - 104)
2,4,6-Tribromophenol	94	(63 - 109)
	94	(63 - 109)
Terphenyl-d14	104	(50 - 116)
	100	(50 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHEQF102-MS **Matrix.....:** WATER
MS Lot-Sample #: D8E230130-003 CHEQF103-MSD
Date Sampled...: 05/21/98 09:25 **Date Received..:** 05/23/98
Prep Date.....: 05/28/98 **Analysis Date..:** 06/24/98
Prep Batch #...: 8148221 **Analysis Time..:** 20:32
Dilution Factor: 1.01

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	**ND**	**101**	**77.8**	**ug/L**	**77**		**SW846 8270B**
	ND	**101**	**79.3**	**ug/L**	**79**	**1.9**	**SW846 8270B**
4-Chloro-3-methylphenol	**ND**	**152**	**119**	**ug/L**	**78**		**SW846 8270B**
	ND	**152**	**114**	**ug/L**	**75**	**4.0**	**SW846 8270B**
2-Chlorophenol	**ND**	**152**	**115**	**ug/L**	**76**		**SW846 8270B**
	ND	**152**	**101**	**ug/L**	**66**	**13**	**SW846 8270B**
1,4-Dichlorobenzene	**ND**	**101**	**66.6**	**ug/L**	**66**		**SW846 8270B**
	ND	**101**	**64.3**	**ug/L**	**64**	**3.6**	**SW846 8270B**
2,4-Dinitrotoluene	**ND**	**101**	**90.3**	**ug/L**	**89**		**SW846 8270B**
	ND	**101**	**89.8**	**ug/L**	**89**	**0.55**	**SW846 8270B**
4-Nitrophenol	**ND**	**152**	**131**	**ug/L**	**87**		**SW846 8270B**
	ND	**152**	**134**	**ug/L**	**88**	**1.6**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**ND**	**101**	**73.5**	**ug/L**	**73**		**SW846 8270B**
	ND	**101**	**71.4**	**ug/L**	**71**	**2.8**	**SW846 8270B**
Pentachlorophenol	**ND**	**152**	**104**	**ug/L**	**69**		**SW846 8270B**
	ND	**152**	**103**	**ug/L**	**68**	**0.96**	**SW846 8270B**
Phenol	**ND**	**152**	**106**	**ug/L**	**70**		**SW846 8270B**
	ND	**152**	**95.1**	**ug/L**	**63**	**11**	**SW846 8270B**
Pyrene	**ND**	**101**	**88.6**	**ug/L**	**88**		**SW846 8270B**
	ND	**101**	**88.8**	**ug/L**	**88**	**0.30**	**SW846 8270B**
1,2,4-Trichlorobenzene	**ND**	**101**	**73.0**	**ug/L**	**72**		**SW846 8270B**
	ND	**101**	**72.1**	**ug/L**	**71**	**1.2**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	68	(54 - 110)
	58	(54 - 110)
Phenol-d5	77	(49 - 131)
	67	(49 - 131)
Nitrobenzene-d5	76	(54 - 116)
	67	(54 - 116)
2-Fluorobiphenyl	68	(49 - 102)
	64	(49 - 102)
2,4,6-Tribromophenol	69	(46 - 127)
	70	(46 - 127)
Terphenyl-d14	88	(57 - 117)
	88	(57 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHEQH102-MS **Matrix.....:** WATER
MS Lot-Sample #: D8E230130-005 CHEQH103-MSD
Date Sampled...: 05/21/98 07:53 **Date Received..:** 05/23/98
Prep Date.....: 05/28/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8148221 **Analysis Time..:** 17:19
Dilution Factor: 1.01

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	ND	101	74.1	ug/L	73		SW846 8270B
	ND	101	73.1	ug/L	72	1.3	SW846 8270B
4-Chloro-3-methylphenol	ND	152	71.5 a	ug/L	47		SW846 8270B
	ND	152	70.2 a	ug/L	46	1.8	SW846 8270B
2-Chlorophenol	ND	152	101	ug/L	67		SW846 8270B
	ND	152	96.9	ug/L	64	4.3	SW846 8270B
1,4-Dichlorobenzene	ND	101	69.8	ug/L	69		SW846 8270B
	ND	101	70.2	ug/L	69	0.54	SW846 8270B
2,4-Dinitrotoluene	ND	101	95.2	ug/L	94		SW846 8270B
	ND	101	95.8	ug/L	95	0.56	SW846 8270B
4-Nitrophenol	ND	152	140	ug/L	92		SW846 8270B
	ND	152	138	ug/L	91	1.3	SW846 8270B
N-Nitrosodi-n-propylamine	ND	101	38.7 a	ug/L	38		SW846 8270B
	ND	101	53.7 p	ug/L	53	32	SW846 8270B
Pentachlorophenol	ND	152	103	ug/L	68		SW846 8270B
	ND	152	96.9	ug/L	64	6.4	SW846 8270B
Phenol	ND	152	73.9	ug/L	49		SW846 8270B
	ND	152	79.2	ug/L	52	7.0	SW846 8270B
Pyrene	ND	101	90.9	ug/L	90		SW846 8270B
	ND	101	93.6	ug/L	93	2.9	SW846 8270B
1,2,4-Trichlorobenzene	ND	101	78.1	ug/L	77		SW846 8270B
	ND	101	80.7	ug/L	80	3.3	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	52 *	(54 - 110)
	49 *	(54 - 110)
Phenol-d5	56	(49 - 131)
	60	(49 - 131)
Nitrobenzene-d5	76	(54 - 116)
	75	(54 - 116)
2-Fluorobiphenyl	67	(49 - 102)
	74	(49 - 102)
2,4,6-Tribromophenol	49	(46 - 127)
	38 *	(46 - 127)
Terphenyl-d14	95	(57 - 117)
	99	(57 - 117)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHEQH102-MS **Matrix.....:** WATER
MS Lot-Sample #: D8E230130-005 CHEQH103-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHER810M-MS **Matrix.....:** SOLID
MS Lot-Sample #: D8E230132-011 CHER810W-MSD
Date Sampled...: 05/21/98 12:15 **Date Received..:** 05/23/98
Prep Date.....: 06/11/98 **Analysis Date..:** 06/15/98
Prep Batch #...: 8162184 **Analysis Time..:** 23:46
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	**ND**	**3330**	**3340**	**ug/kg**	**100**		**SW846 8270B**
	ND	**3330**	**3140**	**ug/kg**	**94**	**6.2**	**SW846 8270B**
4-Chloro-3-methylphenol	**ND**	**5000**	**4350**	**ug/kg**	**87**		**SW846 8270B**
	ND	**5000**	**3810**	**ug/kg**	**76**	**13**	**SW846 8270B**
2-Chlorophenol	**ND**	**5000**	**4640**	**ug/kg**	**93**		**SW846 8270B**
	ND	**5000**	**4250**	**ug/kg**	**85**	**8.8**	**SW846 8270B**
1,4-Dichlorobenzene	**ND**	**3330**	**3020**	**ug/kg**	**90**		**SW846 8270B**
	ND	**3330**	**2920**	**ug/kg**	**88**	**3.2**	**SW846 8270B**
2,4-Dinitrotoluene	**ND**	**3330**	**4020**	**ug/kg**	**121**		**SW846 8270B**
	ND	**3330**	**3660**	**ug/kg**	**110**	**9.4**	**SW846 8270B**
4-Nitrophenol	**ND**	**5000**	**3700**	**ug/kg**	**74**		**SW846 8270B**
	ND	**5000**	**3890**	**ug/kg**	**78**	**4.9**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**ND**	**3330**	**3190**	**ug/kg**	**96**		**SW846 8270B**
	ND	**3330**	**2980**	**ug/kg**	**90**	**6.5**	**SW846 8270B**
Pentachlorophenol	**ND**	**5000**	**4070**	**ug/kg**	**81**		**SW846 8270B**
	ND	**5000**	**4320**	**ug/kg**	**86**	**5.9**	**SW846 8270B**
Phenol	**ND**	**5000**	**4460**	**ug/kg**	**89**		**SW846 8270B**
	ND	**5000**	**4040**	**ug/kg**	**81**	**9.9**	**SW846 8270B**
Pyrene	**ND**	**3330**	**3320**	**ug/kg**	**100**		**SW846 8270B**
	ND	**3330**	**2820**	**ug/kg**	**84**	**17**	**SW846 8270B**
1,2,4-Trichlorobenzene	**ND**	**3330**	**2960**	**ug/kg**	**89**		**SW846 8270B**
	ND	**3330**	**2900**	**ug/kg**	**87**	**2.2**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	90	(71 - 105)
	85	(71 - 105)
Phenol-d5	93	(58 - 120)
	87	(58 - 120)
Nitrobenzene-d5	86	(58 - 104)
	82	(58 - 104)
2-Fluorobiphenyl	91	(58 - 104)
	91	(58 - 104)
2,4,6-Tribromophenol	97	(63 - 109)
	96	(63 - 109)
Terphenyl-d14	96	(50 - 116)
	87	(50 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHEQW10M-MS **Matrix.....:** SOLID
MS Lot-Sample #: D8E230132-001 CHEQW10W-MSD
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/11/98
Prep Batch #...: 8154210 **Analysis Time..:** 17:42
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**94**	**(65 - 118)**			**SW846 8270B**
	89	**(65 - 118)**	**5.6**	**(0-20)**	**SW846 8270B**
4-Chloro-3-methylphenol	**86**	**(64 - 108)**			**SW846 8270B**
	80	**(64 - 108)**	**8.1**	**(0-20)**	**SW846 8270B**
2-Chlorophenol	**90**	**(62 - 108)**			**SW846 8270B**
	81	**(62 - 108)**	**9.8**	**(0-20)**	**SW846 8270B**
1,4-Dichlorobenzene	**87**	**(65 - 109)**			**SW846 8270B**
	81	**(65 - 109)**	**7.3**	**(0-20)**	**SW846 8270B**
2,4-Dinitrotoluene	**115**	**(69 - 128)**			**SW846 8270B**
	105	**(69 - 128)**	**8.7**	**(0-20)**	**SW846 8270B**
4-Nitrophenol	**81**	**(38 - 126)**			**SW846 8270B**
	75	**(38 - 126)**	**7.6**	**(0-20)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**97**	**(58 - 123)**			**SW846 8270B**
	88	**(58 - 123)**	**9.4**	**(0-20)**	**SW846 8270B**
Pentachlorophenol	**49**	**(43 - 106)**			**SW846 8270B**
	47	**(43 - 106)**	**4.0**	**(0-20)**	**SW846 8270B**
Phenol	**87**	**(28 - 128)**			**SW846 8270B**
	79	**(28 - 128)**	**9.1**	**(0-20)**	**SW846 8270B**
Pyrene	**94**	**(53 - 131)**			**SW846 8270B**
	89	**(53 - 131)**	**5.6**	**(0-20)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**88**	**(64 - 120)**			**SW846 8270B**
	80	**(64 - 120)**	**9.3**	**(0-20)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	88	(71 - 105)
	86	(71 - 105)
Phenol-d5	93	(58 - 120)
	88	(58 - 120)
Nitrobenzene-d5	87	(58 - 104)
	85	(58 - 104)
2-Fluorobiphenyl	88	(58 - 104)
	88	(58 - 104)
2,4,6-Tribromophenol	94	(63 - 109)
	94	(63 - 109)
Terphenyl-d14	104	(50 - 116)
	100	(50 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHEQF102-MS **Matrix.....:** WATER
MS Lot-Sample #: D8E230130-003 CHEQF103-MSD
Date Sampled...: 05/21/98 09:25 **Date Received..:** 05/23/98
Prep Date.....: 05/28/98 **Analysis Date..:** 06/24/98
Prep Batch #...: 8148221 **Analysis Time..:** 20:32
Dilution Factor: 1.01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**77**	**(63 - 110)**			**SW846 8270B**
	79	**(63 - 110)**	**1.9**	**(0-20)**	**SW846 8270B**
4-Chloro-3-methylphenol	**78**	**(53 - 112)**			**SW846 8270B**
	75	**(53 - 112)**	**4.0**	**(0-20)**	**SW846 8270B**
2-Chlorophenol	**76**	**(59 - 105)**			**SW846 8270B**
	66	**(59 - 105)**	**13**	**(0-22)**	**SW846 8270B**
1,4-Dichlorobenzene	**66**	**(55 - 108)**			**SW846 8270B**
	64	**(55 - 108)**	**3.6**	**(0-27)**	**SW846 8270B**
2,4-Dinitrotoluene	**89**	**(69 - 124)**			**SW846 8270B**
	89	**(69 - 124)**	**0.55**	**(0-21)**	**SW846 8270B**
4-Nitrophenol	**87**	**(22 - 133)**			**SW846 8270B**
	88	**(22 - 133)**	**1.6**	**(0-32)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**73**	**(52 - 125)**			**SW846 8270B**
	71	**(52 - 125)**	**2.8**	**(0-20)**	**SW846 8270B**
Pentachlorophenol	**69**	**(49 - 112)**			**SW846 8270B**
	68	**(49 - 112)**	**0.96**	**(0-30)**	**SW846 8270B**
Phenol	**70**	**(46 - 107)**			**SW846 8270B**
	63	**(46 - 107)**	**11**	**(0-20)**	**SW846 8270B**
Pyrene	**88**	**(52 - 140)**			**SW846 8270B**
	88	**(52 - 140)**	**0.30**	**(0-20)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**72**	**(55 - 112)**			**SW846 8270B**
	71	**(55 - 112)**	**1.2**	**(0-27)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	68	(54 - 110)
	58	(54 - 110)
Phenol-d5	77	(49 - 131)
	67	(49 - 131)
Nitrobenzene-d5	76	(54 - 116)
	67	(54 - 116)
2-Fluorobiphenyl	68	(49 - 102)
	64	(49 - 102)
2,4,6-Tribromophenol	69	(46 - 127)
	70	(46 - 127)
Terphenyl-d14	88	(57 - 117)
	88	(57 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHEQH102-MS **Matrix.....:** WATER
MS Lot-Sample #: D8E230130-005 CHEQH103-MSD
Date Sampled...: 05/21/98 07:53 **Date Received..:** 05/23/98
Prep Date.....: 05/28/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8148221 **Analysis Time..:** 17:19
Dilution Factor: 1.01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	73	(63 - 110)			SW846 8270B
	72	(63 - 110)	1.3	(0-20)	SW846 8270B
4-Chloro-3-methylphenol	47 a	(53 - 112)			SW846 8270B
	46 a	(53 - 112)	1.8	(0-20)	SW846 8270B
2-Chlorophenol	67	(59 - 105)			SW846 8270B
	64	(59 - 105)	4.3	(0-22)	SW846 8270B
1,4-Dichlorobenzene	69	(55 - 108)			SW846 8270B
	69	(55 - 108)	0.54	(0-27)	SW846 8270B
2,4-Dinitrotoluene	94	(69 - 124)			SW846 8270B
	95	(69 - 124)	0.56	(0-21)	SW846 8270B
4-Nitrophenol	92	(22 - 133)			SW846 8270B
	91	(22 - 133)	1.3	(0-32)	SW846 8270B
N-Nitrosodi-n-propylamine	38 a	(52 - 125)			SW846 8270B
	53 p	(52 - 125)	32	(0-20)	SW846 8270B
Pentachlorophenol	68	(49 - 112)			SW846 8270B
	64	(49 - 112)	6.4	(0-30)	SW846 8270B
Phenol	49	(46 - 107)			SW846 8270B
	52	(46 - 107)	7.0	(0-20)	SW846 8270B
Pyrene	90	(52 - 140)			SW846 8270B
	93	(52 - 140)	2.9	(0-20)	SW846 8270B
1,2,4-Trichlorobenzene	77	(55 - 112)			SW846 8270B
	80	(55 - 112)	3.3	(0-27)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	52 *	(54 - 110)
	49 *	(54 - 110)
Phenol-d5	56	(49 - 131)
	60	(49 - 131)
Nitrobenzene-d5	76	(54 - 116)
	75	(54 - 116)
2-Fluorobiphenyl	67	(49 - 102)
	74	(49 - 102)
2,4,6-Tribromophenol	49	(46 - 127)
	38 *	(46 - 127)
Terphenyl-d14	95	(57 - 117)
	99	(57 - 117)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHEQH102-MS **Matrix.....:** WATER
MS Lot-Sample #: D8E230130-005 CHEQH103-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D8E230132 **Work Order #...:** CHER810M-MS **Matrix.....:** SOLID
MS Lot-Sample #: D8E230132-011 CHER810W-MSD
Date Sampled...: 05/21/98 12:15 **Date Received..:** 05/23/98
Prep Date.....: 06/11/98 **Analysis Date..:** 06/15/98
Prep Batch #...: 8162184 **Analysis Time..:** 23:46
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**100**	**(65 - 118)**			**SW846 8270B**
	94	**(65 - 118)**	**6.2**	**(0-20)**	**SW846 8270B**
4-Chloro-3-methylphenol	**87**	**(64 - 108)**			**SW846 8270B**
	76	**(64 - 108)**	**13**	**(0-20)**	**SW846 8270B**
2-Chlorophenol	**93**	**(62 - 108)**			**SW846 8270B**
	85	**(62 - 108)**	**8.8**	**(0-20)**	**SW846 8270B**
1,4-Dichlorobenzene	**90**	**(65 - 109)**			**SW846 8270B**
	88	**(65 - 109)**	**3.2**	**(0-20)**	**SW846 8270B**
2,4-Dinitrotoluene	**121**	**(69 - 128)**			**SW846 8270B**
	110	**(69 - 128)**	**9.4**	**(0-20)**	**SW846 8270B**
4-Nitrophenol	**74**	**(38 - 126)**			**SW846 8270B**
	78	**(38 - 126)**	**4.9**	**(0-20)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**96**	**(58 - 123)**			**SW846 8270B**
	90	**(58 - 123)**	**6.5**	**(0-20)**	**SW846 8270B**
Pentachlorophenol	**81**	**(43 - 106)**			**SW846 8270B**
	86	**(43 - 106)**	**5.9**	**(0-20)**	**SW846 8270B**
Phenol	**89**	**(28 - 128)**			**SW846 8270B**
	81	**(28 - 128)**	**9.9**	**(0-20)**	**SW846 8270B**
Pyrene	**100**	**(53 - 131)**			**SW846 8270B**
	84	**(53 - 131)**	**17**	**(0-20)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**89**	**(64 - 120)**			**SW846 8270B**
	87	**(64 - 120)**	**2.2**	**(0-20)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	90	(71 - 105)
	85	(71 - 105)
Phenol-d5	93	(58 - 120)
	87	(58 - 120)
Nitrobenzene-d5	86	(58 - 104)
	82	(58 - 104)
2-Fluorobiphenyl	91	(58 - 104)
	91	(58 - 104)
2,4,6-Tribromophenol	97	(63 - 109)
	96	(63 - 109)
Terphenyl-d14	96	(50 - 116)
	87	(50 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: D8E230132 **Work Order #...:** CHGV4102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8E280000-183 CHGV4103-LCSD
Prep Date.....: 05/28/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8148183 **Analysis Time..:** 18:22
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
RDX	5.00	5.42	ug/L	108		SW846 8330
	5.00	5.66	ug/L	113	4.3	SW846 8330
HMX	5.00	5.28	ug/L	106		SW846 8330
	5.00	5.54	ug/L	111	4.8	SW846 8330
Tetryl	5.00	4.69	ug/L	94		SW846 8330
	5.00	4.92	ug/L	98	4.8	SW846 8330
1,3-Dinitrobenzene	5.00	5.32	ug/L	106		SW846 8330
	5.00	5.40	ug/L	108	1.5	SW846 8330
Nitrobenzene	5.00	5.01 a	ug/L	100		SW846 8330
	5.00	5.04 a	ug/L	101	0.59	SW846 8330
2,4,6-Trinitrotoluene	5.00	4.13	ug/L	83		SW846 8330
	5.00	4.50	ug/L	90	8.6	SW846 8330
2,4-Dinitrotoluene	5.00	5.75 a	ug/L	115		SW846 8330
	5.00	5.67	ug/L	113	1.4	SW846 8330
2,6-Dinitrotoluene	5.00	5.35	ug/L	107		SW846 8330
	5.00	5.35	ug/L	107	0.0	SW846 8330
4-Amino-2,6-dinitrotoluene	5.00	5.56	ug/L	111		SW846 8330
	5.00	5.74	ug/L	115	3.2	SW846 8330
2-Amino-4,6-dinitrotoluene	5.00	5.37	ug/L	107		SW846 8330
	5.00	5.54	ug/L	111	3.1	SW846 8330
2-Nitrotoluene	5.00	4.84	ug/L	97		SW846 8330
	5.00	4.71	ug/L	94	2.7	SW846 8330
3-Nitrotoluene	5.00	4.86	ug/L	97		SW846 8330
	5.00	4.75	ug/L	95	2.3	SW846 8330
4-Nitrotoluene	5.00	5.05	ug/L	101		SW846 8330
	5.00	4.99	ug/L	100	1.2	SW846 8330
1,3,5-Trinitrobenzene	5.00	5.49	ug/L	110		SW846 8330
	5.00	5.71	ug/L	114	3.9	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	120	(45 - 133)
	118	(45 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: D8E230132 **Work Order #...:** CHNKE102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: D8F030000-310 CHNKE103-LCSD
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 01:38
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
RDX	**5.00**	**5.97**	**ug/g**	**119**		**SW846 8330**
	5.00	**5.98**	**ug/g**	**120**	**0.16**	**SW846 8330**
HMX	**5.00**	**5.96**	**ug/g**	**119**		**SW846 8330**
	5.00	**5.74**	**ug/g**	**115**	**3.8**	**SW846 8330**
Tetryl	**5.00**	**5.48**	**ug/g**	**110**		**SW846 8330**
	5.00	**5.28**	**ug/g**	**106**	**3.7**	**SW846 8330**
1,3-Dinitrobenzene	**5.00**	**5.88**	**ug/g**	**118**		**SW846 8330**
	5.00	**5.84**	**ug/g**	**117**	**0.68**	**SW846 8330**
Nitrobenzene	**5.00**	**6.12**	**ug/g**	**122**		**SW846 8330**
	5.00	**6.04**	**ug/g**	**121**	**1.3**	**SW846 8330**
2,4,6-Trinitrotoluene	**5.00**	**4.84**	**ug/g**	**97**		**SW846 8330**
	5.00	**4.70**	**ug/g**	**94**	**2.9**	**SW846 8330**
2,4-Dinitrotoluene	**5.00**	**5.92**	**ug/g**	**118**		**SW846 8330**
	5.00	**5.85**	**ug/g**	**117**	**1.2**	**SW846 8330**
2,6-Dinitrotoluene	**5.00**	**5.41**	**ug/g**	**108**		**SW846 8330**
	5.00	**5.50**	**ug/g**	**110**	**1.6**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**5.00**	**5.74**	**ug/g**	**115**		**SW846 8330**
	5.00	**5.59**	**ug/g**	**112**	**2.6**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**5.00**	**6.22**	**ug/g**	**124**		**SW846 8330**
	5.00	**6.04**	**ug/g**	**121**	**2.9**	**SW846 8330**
2-Nitrotoluene	**5.00**	**6.02**	**ug/g**	**120**		**SW846 8330**
	5.00	**6.03**	**ug/g**	**121**	**0.16**	**SW846 8330**
3-Nitrotoluene	**5.00**	**5.90**	**ug/g**	**118**		**SW846 8330**
	5.00	**5.92**	**ug/g**	**118**	**0.33**	**SW846 8330**
4-Nitrotoluene	**5.00**	**5.98**	**ug/g**	**120**		**SW846 8330**
	5.00	**6.05**	**ug/g**	**121**	**1.2**	**SW846 8330**
1,3,5-Trinitrobenzene	**5.00**	**6.11**	**ug/g**	**122**		**SW846 8330**
	5.00	**6.01**	**ug/g**	**120**	**1.6**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	124	(84 - 140)
	121	(84 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: D8E230132 **Work Order #...:** CHGV4102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8E280000-183 CHGV4103-LCSD
Prep Date.....: 05/28/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8148183 **Analysis Time..:** 18:22
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
RDX	**108**	**(53 - 118)**			**SW846 8330**
	113	**(53 - 118)**	**4.3**	**(0-40)**	**SW846 8330**
HMX	**106**	**(54 - 134)**			**SW846 8330**
	111	**(54 - 134)**	**4.8**	**(0-39)**	**SW846 8330**
Tetryl	**94**	**(1.0- 118)**			**SW846 8330**
	98	**(1.0- 118)**	**4.8**	**(0-69)**	**SW846 8330**
1,3-Dinitrobenzene	**106**	**(32 - 110)**			**SW846 8330**
	108	**(32 - 110)**	**1.5**	**(0-43)**	**SW846 8330**
Nitrobenzene	**100 a**	**(16 - 98)**			**SW846 8330**
	101 a	**(16 - 98)**	**0.59**	**(0-45)**	**SW846 8330**
2,4,6-Trinitrotoluene	**83**	**(26 - 118)**			**SW846 8330**
	90	**(26 - 118)**	**8.6**	**(0-40)**	**SW846 8330**
2,4-Dinitrotoluene	**115 a**	**(38 - 113)**			**SW846 8330**
	113	**(38 - 113)**	**1.4**	**(0-40)**	**SW846 8330**
2,6-Dinitrotoluene	**107**	**(18 - 114)**			**SW846 8330**
	107	**(18 - 114)**	**0.0**	**(0-45)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**111**	**(29 - 143)**			**SW846 8330**
	115	**(29 - 143)**	**3.2**	**(0-63)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**107**	**(47 - 128)**			**SW846 8330**
	111	**(47 - 128)**	**3.1**	**(0-40)**	**SW846 8330**
2-Nitrotoluene	**97**	**(10 - 111)**			**SW846 8330**
	94	**(10 - 111)**	**2.7**	**(0-45)**	**SW846 8330**
3-Nitrotoluene	**97**	**(16 - 102)**			**SW846 8330**
	95	**(16 - 102)**	**2.3**	**(0-44)**	**SW846 8330**
4-Nitrotoluene	**101**	**(19 - 103)**			**SW846 8330**
	100	**(19 - 103)**	**1.2**	**(0-45)**	**SW846 8330**
1,3,5-Trinitrobenzene	**110**	**(26 - 115)**			**SW846 8330**
	114	**(26 - 115)**	**3.9**	**(0-40)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	120	(45 - 133)
	118	(45 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: D8E230132 **Work Order #...:** CHNKE102-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: D8F030000-310 CHNKE103-LCSD
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 01:38
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
RDX	**119**	**(78 - 141)**			**SW846 8330**
	120	**(78 - 141)**	**0.16**	**(0-15)**	**SW846 8330**
HMX	**119**	**(79 - 154)**			**SW846 8330**
	115	**(79 - 154)**	**3.8**	**(0-15)**	**SW846 8330**
Tetryl	**110**	**(1.0- 143)**			**SW846 8330**
	106	**(1.0- 143)**	**3.7**	**(0-60)**	**SW846 8330**
1,3-Dinitrobenzene	**118**	**(84 - 135)**			**SW846 8330**
	117	**(84 - 135)**	**0.68**	**(0-15)**	**SW846 8330**
Nitrobenzene	**122**	**(76 - 135)**			**SW846 8330**
	121	**(76 - 135)**	**1.3**	**(0-15)**	**SW846 8330**
2,4,6-Trinitrotoluene	**97**	**(64 - 132)**			**SW846 8330**
	94	**(64 - 132)**	**2.9**	**(0-15)**	**SW846 8330**
2,4-Dinitrotoluene	**118**	**(82 - 136)**			**SW846 8330**
	117	**(82 - 136)**	**1.2**	**(0-15)**	**SW846 8330**
2,6-Dinitrotoluene	**108**	**(76 - 134)**			**SW846 8330**
	110	**(76 - 134)**	**1.6**	**(0-15)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**115**	**(60 - 170)**			**SW846 8330**
	112	**(60 - 170)**	**2.6**	**(0-15)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**124**	**(74 - 144)**			**SW846 8330**
	121	**(74 - 144)**	**2.9**	**(0-15)**	**SW846 8330**
2-Nitrotoluene	**120**	**(84 - 134)**			**SW846 8330**
	121	**(84 - 134)**	**0.16**	**(0-15)**	**SW846 8330**
3-Nitrotoluene	**118**	**(83 - 130)**			**SW846 8330**
	118	**(83 - 130)**	**0.33**	**(0-15)**	**SW846 8330**
4-Nitrotoluene	**120**	**(84 - 129)**			**SW846 8330**
	121	**(84 - 129)**	**1.2**	**(0-15)**	**SW846 8330**
1,3,5-Trinitrobenzene	**122**	**(68 - 122)**			**SW846 8330**
	120	**(68 - 122)**	**1.6**	**(0-16)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	124	(84 - 140)
	121	(84 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra

METHOD BLANK REPORT

HPLC

Client Lot #...: D8E230132
MB Lot-Sample #: D8F030000-310
Analysis Date..: 06/12/98
Dilution Factor: 1

Work Order #...: CHNKE101
Prep Date.....: 06/03/98
Prep Batch #...: 8154310

Matrix.....: SOLID
Analysis Time..: 01:07

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
RDX	ND	0.25	ug/g	SW846 8330
HMX	ND	0.25	ug/g	SW846 8330
Tetryl	ND	0.50	ug/g	SW846 8330
1,3-Dinitrobenzene	ND	0.25	ug/g	SW846 8330
Nitrobenzene	ND	0.25	ug/g	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	ug/g	SW846 8330
2,4-Dinitrotoluene	ND	0.25	ug/g	SW846 8330
2,6-Dinitrotoluene	ND	0.25	ug/g	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	ug/g	SW846 8330
2-Amino-4,6-dinitrotoluen	ND	0.25	ug/g	SW846 8330
2-Nitrotoluene	ND	0.25	ug/g	SW846 8330
3-Nitrotoluene	ND	0.25	ug/g	SW846 8330
4-Nitrotoluene	ND	0.25	ug/g	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	ug/g	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	116	(84 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

METHOD BLANK REPORT

HPLC

Client Lot #...: D8E230132 **Work Order #...:** CHGV4101 **Matrix.....:** WATER
MB Lot-Sample #: D8E280000-183

Prep Date.....: 05/28/98 **Analysis Time..:** 17:51
Analysis Date..: 06/12/98 **Prep Batch #...:** 8148183
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
RDX	ND	0.25	ug/L	SW846 8330
HMX	ND	0.25	ug/L	SW846 8330
Tetryl	ND	0.50	ug/L	SW846 8330
1,3-Dinitrobenzene	ND	0.10	ug/L	SW846 8330
Nitrobenzene	ND	0.25	ug/L	SW846 8330
2,4,6-Trinitrotoluene	ND	0.10	ug/L	SW846 8330
2,4-Dinitrotoluene	ND	0.10	ug/L	SW846 8330
2,6-Dinitrotoluene	ND	0.25	ug/L	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.10	ug/L	SW846 8330
2-Amino-4,6-dinitrotoluen	ND	0.10	ug/L	SW846 8330
2-Nitrotoluene	ND	0.25	ug/L	SW846 8330
3-Nitrotoluene	ND	0.25	ug/L	SW846 8330
4-Nitrotoluene	ND	0.25	ug/L	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	ug/L	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	117	(45 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: D8E230132 **Work Order #...:** CHED211Q-MS **Matrix.....:** WATER
MS Lot-Sample #: D8E220222-001 CHED211R-MSD
Date Sampled...: 05/21/98 14:15 **Date Received..:** 05/22/98
Prep Date.....: 05/28/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8148183 **Analysis Time..:** 19:55
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
RDX	ND	5.00	4.97	ug/L	99		SW846 8330
	ND	5.00	5.60	ug/L	112	12	SW846 8330
HMX	ND	5.00	4.96	ug/L	99		SW846 8330
	ND	5.00	5.59	ug/L	112	12	SW846 8330
Tetryl	ND	5.00	4.38	ug/L	88		SW846 8330
	ND	5.00	5.01	ug/L	100	13	SW846 8330
1,3-Dinitrobenzene	ND	5.00	4.93	ug/L	99		SW846 8330
	ND	5.00	5.26	ug/L	105	6.5	SW846 8330
Nitrobenzene	ND	5.00	4.78	ug/L	96		SW846 8330
	ND	5.00	4.97 a	ug/L	99	3.9	SW846 8330
2,4,6-Trinitrotoluene	ND	5.00	3.93	ug/L	79		SW846 8330
	ND	5.00	4.30	ug/L	86	9.0	SW846 8330
2,4-Dinitrotoluene	ND	5.00	5.24	ug/L	105		SW846 8330
	ND	5.00	5.43	ug/L	109	3.6	SW846 8330
2,6-Dinitrotoluene	ND	5.00	4.93	ug/L	99		SW846 8330
	ND	5.00	5.26	ug/L	105	6.5	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	5.00	5.46	ug/L	109		SW846 8330
	ND	5.00	5.86	ug/L	117	7.1	SW846 8330
2-Amino-4,6-dinitrotoluen	ND	5.00	5.14	ug/L	103		SW846 8330
	ND	5.00	5.62	ug/L	112	8.9	SW846 8330
2-Nitrotoluene	ND	5.00	4.59	ug/L	92		SW846 8330
	ND	5.00	4.91	ug/L	98	6.7	SW846 8330
3-Nitrotoluene	ND	5.00	4.63	ug/L	93		SW846 8330
	ND	5.00	4.97	ug/L	99	7.1	SW846 8330
4-Nitrotoluene	ND	5.00	4.81	ug/L	96		SW846 8330
	ND	5.00	5.06	ug/L	101	5.1	SW846 8330
1,3,5-Trinitrobenzene	ND	5.00	5.19	ug/L	104		SW846 8330
	ND	5.00	5.56	ug/L	111	6.9	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	107	(45 - 133)
	112	(45 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: D8E230132 **Work Order #...:** CHEQX10M-MS **Matrix.....:** SOLID
MS Lot-Sample #: D8E230132-002 CHEQX10W-MSD
Date Sampled...: 05/21/98 09:12 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 03:42
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
RDX	ND	5.00	5.64	ug/g	113		SW846 8330
	ND	5.00	5.88	ug/g	118	4.2	SW846 8330
HMX	ND	5.00	5.64	ug/g	113		SW846 8330
	ND	5.00	5.72	ug/g	114	1.4	SW846 8330
Tetryl	ND	5.00	5.21	ug/g	104		SW846 8330
	ND	5.00	5.33	ug/g	107	2.3	SW846 8330
1,3-Dinitrobenzene	ND	5.00	5.66	ug/g	113		SW846 8330
	ND	5.00	5.79	ug/g	116	2.3	SW846 8330
Nitrobenzene	ND	5.00	5.88	ug/g	118		SW846 8330
	ND	5.00	5.96	ug/g	119	1.4	SW846 8330
2,4,6-Trinitrotoluene	ND	5.00	4.60	ug/g	92		SW846 8330
	ND	5.00	4.64	ug/g	93	0.86	SW846 8330
2,4-Dinitrotoluene	ND	5.00	5.72	ug/g	114		SW846 8330
	ND	5.00	5.78	ug/g	116	1.0	SW846 8330
2,6-Dinitrotoluene	ND	5.00	5.16	ug/g	103		SW846 8330
	ND	5.00	5.14	ug/g	103	0.38	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	5.00	5.18	ug/g	104		SW846 8330
	ND	5.00	5.08	ug/g	102	1.9	SW846 8330
2-Amino-4,6-dinitrotoluen	ND	5.00	5.91	ug/g	118		SW846 8330
	ND	5.00	5.98	ug/g	120	1.2	SW846 8330
2-Nitrotoluene	ND	5.00	5.80	ug/g	116		SW846 8330
	ND	5.00	5.92	ug/g	118	2.0	SW846 8330
3-Nitrotoluene	ND	5.00	5.72	ug/g	114		SW846 8330
	ND	5.00	5.95	ug/g	119	3.9	SW846 8330
4-Nitrotoluene	ND	5.00	5.71	ug/g	114		SW846 8330
	ND	5.00	5.84	ug/g	117	2.2	SW846 8330
1,3,5-Trinitrobenzene	ND	5.00	5.82	ug/g	116		SW846 8330
	ND	5.00	5.97	ug/g	119	2.5	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	118	(84 - 140)
	119	(84 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: D8E230132 **Work Order #...:** CHED211Q-MS **Matrix.....:** WATER
MS Lot-Sample #: D8E220222-001 CHED211R-MSD
Date Sampled...: 05/21/98 14:15 **Date Received..:** 05/22/98
Prep Date.....: 05/28/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8148183 **Analysis Time..:** 19:55
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
RDX	**99**	**(53 - 118)**			**SW846 8330**
	112	**(53 - 118)**	**12**	**(0-40)**	**SW846 8330**
HMX	**99**	**(54 - 134)**			**SW846 8330**
	112	**(54 - 134)**	**12**	**(0-39)**	**SW846 8330**
Tetryl	**88**	**(1.0- 118)**			**SW846 8330**
	100	**(1.0- 118)**	**13**	**(0-69)**	**SW846 8330**
1,3-Dinitrobenzene	**99**	**(32 - 110)**			**SW846 8330**
	105	**(32 - 110)**	**6.5**	**(0-43)**	**SW846 8330**
Nitrobenzene	**96**	**(16 - 98)**			**SW846 8330**
	99 a	**(16 - 98)**	**3.9**	**(0-45)**	**SW846 8330**
2,4,6-Trinitrotoluene	**79**	**(26 - 118)**			**SW846 8330**
	86	**(26 - 118)**	**9.0**	**(0-40)**	**SW846 8330**
2,4-Dinitrotoluene	**105**	**(38 - 113)**			**SW846 8330**
	109	**(38 - 113)**	**3.6**	**(0-40)**	**SW846 8330**
2,6-Dinitrotoluene	**99**	**(18 - 114)**			**SW846 8330**
	105	**(18 - 114)**	**6.5**	**(0-45)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**109**	**(29 - 143)**			**SW846 8330**
	117	**(29 - 143)**	**7.1**	**(0-63)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**103**	**(47 - 128)**			**SW846 8330**
	112	**(47 - 128)**	**8.9**	**(0-40)**	**SW846 8330**
2-Nitrotoluene	**92**	**(10 - 111)**			**SW846 8330**
	98	**(10 - 111)**	**6.7**	**(0-45)**	**SW846 8330**
3-Nitrotoluene	**93**	**(16 - 102)**			**SW846 8330**
	99	**(16 - 102)**	**7.1**	**(0-44)**	**SW846 8330**
4-Nitrotoluene	**96**	**(19 - 103)**			**SW846 8330**
	101	**(19 - 103)**	**5.1**	**(0-45)**	**SW846 8330**
1,3,5-Trinitrobenzene	**104**	**(26 - 115)**			**SW846 8330**
	111	**(26 - 115)**	**6.9**	**(0-40)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	107	(45 - 133)
	112	(45 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: D8E230132 **Work Order #...:** CHEQX10M-MS **Matrix.....:** SOLID
MS Lot-Sample #: D8E230132-002 CHEQX10W-MSD
Date Sampled...: 05/21/98 09:12 **Date Received..:** 05/23/98
Prep Date.....: 06/03/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8154310 **Analysis Time..:** 03:42
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
RDX	**113**	**(78 - 141)**			**SW846 8330**
	118	**(78 - 141)**	**4.2**	**(0-15)**	**SW846 8330**
HMX	**113**	**(79 - 154)**			**SW846 8330**
	114	**(79 - 154)**	**1.4**	**(0-15)**	**SW846 8330**
Tetryl	**104**	**(1.0- 143)**			**SW846 8330**
	107	**(1.0- 143)**	**2.3**	**(0-60)**	**SW846 8330**
1,3-Dinitrobenzene	**113**	**(84 - 135)**			**SW846 8330**
	116	**(84 - 135)**	**2.3**	**(0-15)**	**SW846 8330**
Nitrobenzene	**118**	**(76 - 135)**			**SW846 8330**
	119	**(76 - 135)**	**1.4**	**(0-15)**	**SW846 8330**
2,4,6-Trinitrotoluene	**92**	**(64 - 132)**			**SW846 8330**
	93	**(64 - 132)**	**0.86**	**(0-15)**	**SW846 8330**
2,4-Dinitrotoluene	**114**	**(82 - 136)**			**SW846 8330**
	116	**(82 - 136)**	**1.0**	**(0-15)**	**SW846 8330**
2,6-Dinitrotoluene	**103**	**(76 - 134)**			**SW846 8330**
	103	**(76 - 134)**	**0.38**	**(0-15)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**104**	**(60 - 170)**			**SW846 8330**
	102	**(60 - 170)**	**1.9**	**(0-15)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**118**	**(74 - 144)**			**SW846 8330**
	120	**(74 - 144)**	**1.2**	**(0-15)**	**SW846 8330**
2-Nitrotoluene	**116**	**(84 - 134)**			**SW846 8330**
	118	**(84 - 134)**	**2.0**	**(0-15)**	**SW846 8330**
3-Nitrotoluene	**114**	**(83 - 130)**			**SW846 8330**
	119	**(83 - 130)**	**3.9**	**(0-15)**	**SW846 8330**
4-Nitrotoluene	**114**	**(84 - 129)**			**SW846 8330**
	117	**(84 - 129)**	**2.2**	**(0-15)**	**SW846 8330**
1,3,5-Trinitrobenzene	**116**	**(68 - 122)**			**SW846 8330**
	119	**(68 - 122)**	**2.5**	**(0-16)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	118	(84 - 140)
	119	(84 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: D8E230132 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Antimony	0.500	0.573	mg/L	115		SW846 6010B	06/04-06/08/98	8155208
	0.500	0.563	mg/L	113	1.8	SW846 6010B	06/04-06/08/98	8155208
			Dilution Factor: 1					
Arsenic	2.00	2.01	mg/L	100		SW846 6010B	06/04-06/08/98	8155208
	2.00	1.97	mg/L	99	1.8	SW846 6010B	06/04-06/08/98	8155208
			Dilution Factor: 1					
Cadmium	0.0500	0.0571	mg/L	114		SW846 6010B	06/04-06/08/98	8155208
	0.0500	0.0560	mg/L	112	2.0	SW846 6010B	06/04-06/08/98	8155208
			Dilution Factor: 1					
Lead	0.500	0.526	mg/L	105		SW846 6010B	06/04-06/08/98	8155208
	0.500	0.519	mg/L	104	1.4	SW846 6010B	06/04-06/08/98	8155208
			Dilution Factor: 1					
Selenium	2.00	2.02	mg/L	101		SW846 6010B	06/04-06/08/98	8155208
	2.00	1.98	mg/L	99	2.0	SW846 6010B	06/04-06/08/98	8155208
			Dilution Factor: 1					
Thallium	2.00	2.04	mg/L	102		SW846 6010B	06/04-06/08/98	8155208
	2.00	2.00	mg/L	100	2.1	SW846 6010B	06/04-06/08/98	8155208
			Dilution Factor: 1					
Silver	0.0500	0.0476	mg/L	95		SW846 6010B	06/04-06/11/98	8155208
	0.0500	0.0484	mg/L	97	1.7	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Aluminum	2.00	2.12	mg/L	106		SW846 6010B	06/04-06/11/98	8155208
	2.00	2.12	mg/L	106	0.17	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Barium	2.00	2.09	mg/L	104		SW846 6010B	06/04-06/11/98	8155208
	2.00	2.07	mg/L	104	0.78	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Beryllium	0.0500	0.0534	mg/L	107		SW846 6010B	06/04-06/11/98	8155208
	0.0500	0.0532	mg/L	106	0.40	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					

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Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: D8E230132 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Calcium	50.0	53.7	mg/L	107		SW846 6010B	06/04-06/11/98	8155208
	50.0	53.6	mg/L	107	0.16	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Cobalt	0.500	0.548	mg/L	110		SW846 6010B	06/04-06/11/98	8155208
	0.500	0.546	mg/L	109	0.45	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Chromium	0.200	0.207	mg/L	103		SW846 6010B	06/04-06/11/98	8155208
	0.200	0.207	mg/L	103	0.05	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Copper	0.250	0.257	mg/L	103		SW846 6010B	06/04-06/11/98	8155208
	0.250	0.256	mg/L	102	0.28	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Iron	1.00	1.17	mg/L	117		SW846 6010B	06/04-06/11/98	8155208
	1.00	1.08	mg/L	108	8.6	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Potassium	50.0	52.5	mg/L	105		SW846 6010B	06/04-06/11/98	8155208
	50.0	52.1	mg/L	104	0.74	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Magnesium	50.0	53.7	mg/L	107		SW846 6010B	06/04-06/11/98	8155208
	50.0	53.4	mg/L	107	0.44	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Manganese	0.500	0.520	mg/L	104		SW846 6010B	06/04-06/11/98	8155208
	0.500	0.520	mg/L	104	0.14	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Sodium	50.0	53.4	mg/L	107		SW846 6010B	06/04-06/11/98	8155208
	50.0	52.4	mg/L	105	1.9	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Nickel	0.500	0.531	mg/L	106		SW846 6010B	06/04-06/11/98	8155208
	0.500	0.526	mg/L	105	1.0	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					

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Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: D8E230132 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Vanadium	0.500	0.521	mg/L	104		SW846 6010B	06/04-06/11/98	8155208
	0.500	0.520	mg/L	104	0.28	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Zinc	0.500	0.519	mg/L	104		SW846 6010B	06/04-06/11/98	8155208
	0.500	0.516	mg/L	103	0.69	SW846 6010B	06/04-06/11/98	8155208
			Dilution Factor: 1					
Mercury	0.00500	0.00469	mg/L	94		SW846 7470A	06/07-06/08/98	8158124
	0.00500	0.00504	mg/L	101	7.2	SW846 7470A	06/07-06/08/98	8158124
			Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: D8E230132 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Calcium	5000	5040	mg/kg	101		SW846 6010B	06/05-06/23/98	8156226
	5000	5070	mg/kg	101	0.54	SW846 6010B	06/05-06/23/98	8156226
			Dilution Factor: 1					
Cobalt	50.0	50.7	mg/kg	101		SW846 6010B	06/05-06/23/98	8156226
	50.0	50.7	mg/kg	101	0.08	SW846 6010B	06/05-06/23/98	8156226
			Dilution Factor: 1					
Chromium	20.0	19.6	mg/kg	98		SW846 6010B	06/05-06/23/98	8156226
	20.0	19.7	mg/kg	98	0.42	SW846 6010B	06/05-06/23/98	8156226
			Dilution Factor: 1					
Copper	25.0	24.3	mg/kg	97		SW846 6010B	06/05-06/23/98	8156226
	25.0	24.1	mg/kg	96	0.75	SW846 6010B	06/05-06/23/98	8156226
			Dilution Factor: 1					
Potassium	5000	4830	mg/kg	97		SW846 6010B	06/05-06/23/98	8156226
	5000	4800	mg/kg	96	0.65	SW846 6010B	06/05-06/23/98	8156226
			Dilution Factor: 1					
Magnesium	5000	4960	mg/kg	99		SW846 6010B	06/05-06/23/98	8156226
	5000	4960	mg/kg	99	0.01	SW846 6010B	06/05-06/23/98	8156226
			Dilution Factor: 1					
Manganese	50.0	49.1	mg/kg	98		SW846 6010B	06/05-06/23/98	8156226
	50.0	49.1	mg/kg	98	0.03	SW846 6010B	06/05-06/23/98	8156226
			Dilution Factor: 1					
Sodium	5000	4970	mg/kg	99		SW846 6010B	06/05-06/23/98	8156226
	5000	4990	mg/kg	100	0.43	SW846 6010B	06/05-06/23/98	8156226
			Dilution Factor: 1					
Nickel	50.0	48.9	mg/kg	98		SW846 6010B	06/05-06/23/98	8156226
	50.0	49.0	mg/kg	98	0.15	SW846 6010B	06/05-06/23/98	8156226
			Dilution Factor: 1					
Vanadium	50.0	48.9	mg/kg	98		SW846 6010B	06/05-06/23/98	8156226
	50.0	48.9	mg/kg	98	0.05	SW846 6010B	06/05-06/23/98	8156226
			Dilution Factor: 1					

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Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: D8E230132 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic	200	188	mg/kg	94		SW846 6010B	06/05-06/08/98	8156226
	200	189	mg/kg	95	0.54	SW846 6010B	06/05-06/08/98	8156226
		Dilution Factor: 1						
Silver	5.00	4.64	mg/kg	93		SW846 6010B	06/05-06/23/98	8156226
	5.00	4.59	mg/kg	92	1.3	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1						
Aluminum	200	200	mg/kg	100		SW846 6010B	06/05-06/23/98	8156226
	200	199	mg/kg	99	0.89	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1						
Lead	50.0	50.6	mg/kg	101		SW846 6010B	06/05-06/08/98	8156226
	50.0	51.1	mg/kg	102	0.82	SW846 6010B	06/05-06/08/98	8156226
		Dilution Factor: 1						
Antimony	50.0	54.2	mg/kg	108		SW846 6010B	06/05-06/08/98	8156226
	50.0	55.0	mg/kg	110	1.5	SW846 6010B	06/05-06/08/98	8156226
		Dilution Factor: 1						
Barium	200	196	mg/kg	98		SW846 6010B	06/05-06/23/98	8156226
	200	195	mg/kg	97	0.48	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1						
Selenium	200	185	mg/kg	93		SW846 6010B	06/05-06/08/98	8156226
	200	188	mg/kg	94	1.4	SW846 6010B	06/05-06/08/98	8156226
		Dilution Factor: 1						
Beryllium	5.00	5.27	mg/kg	105		SW846 6010B	06/05-06/23/98	8156226
	5.00	5.27	mg/kg	105	0.0	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1						
Thallium	200	197	mg/kg	99		SW846 6010B	06/05-06/08/98	8156226
	200	199	mg/kg	99	0.77	SW846 6010B	06/05-06/08/98	8156226
		Dilution Factor: 1						
Cadmium	5.00	5.44	mg/kg	109		SW846 6010B	06/05-06/08/98	8156226
	5.00	5.50	mg/kg	110	1.2	SW846 6010B	06/05-06/08/98	8156226
		Dilution Factor: 1						

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Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: D8E230132 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Zinc	50.0	48.5	mg/kg	97		SW846 6010B	06/05-06/23/98	8156226
	50.0	49.1	mg/kg	98	1.3	SW846 6010B	06/05-06/23/98	8156226
			Dilution Factor: 1					
Mercury	0.417	0.386	mg/kg	93		SW846 7471A	06/05-06/07/98	8156245
	0.417	0.424	mg/kg	102	9.4	SW846 7471A	06/05-06/07/98	8156245
			Dilution Factor: 1					
Mercury	0.417	0.389	mg/kg	93		SW846 7471A	06/05-06/07/98	8156249
	0.417	0.391	mg/kg	94	0.51	SW846 7471A	06/05-06/07/98	8156249
			Dilution Factor: 1					
Mercury	0.417	0.384	mg/kg	92		SW846 7471A	06/05-06/07/98	8156293
	0.417	0.368	mg/kg	88	4.2	SW846 7471A	06/05-06/07/98	8156293
			Dilution Factor: 1					
Iron	100	103	mg/kg	103		SW846 6010B	06/29-07/01/98	8180198
	100	103	mg/kg	103	0.66	SW846 6010B	06/29-07/01/98	8180198
			Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: D8E230132 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Antimony	115	(89 - 115)			SW846 6010B	06/04-06/08/98	8155208
	113	(89 - 115)	1.8	(0-10)	SW846 6010B	06/04-06/08/98	8155208
		Dilution Factor: 1					
Arsenic	100	(86 - 113)			SW846 6010B	06/04-06/08/98	8155208
	99	(86 - 113)	1.8	(0-10)	SW846 6010B	06/04-06/08/98	8155208
		Dilution Factor: 1					
Cadmium	114	(95 - 121)			SW846 6010B	06/04-06/08/98	8155208
	112	(95 - 121)	2.0	(0-10)	SW846 6010B	06/04-06/08/98	8155208
		Dilution Factor: 1					
Lead	105	(91 - 117)			SW846 6010B	06/04-06/08/98	8155208
	104	(91 - 117)	1.4	(0-10)	SW846 6010B	06/04-06/08/98	8155208
		Dilution Factor: 1					
Selenium	101	(81 - 114)			SW846 6010B	06/04-06/08/98	8155208
	99	(81 - 114)	2.0	(0-10)	SW846 6010B	06/04-06/08/98	8155208
		Dilution Factor: 1					
Thallium	102	(90 - 119)			SW846 6010B	06/04-06/08/98	8155208
	100	(90 - 119)	2.1	(0-10)	SW846 6010B	06/04-06/08/98	8155208
		Dilution Factor: 1					
Silver	95	(83 - 115)			SW846 6010B	06/04-06/11/98	8155208
	97	(83 - 115)	1.7	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Aluminum	106	(86 - 117)			SW846 6010B	06/04-06/11/98	8155208
	106	(86 - 117)	0.17	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Barium	104	(86 - 114)			SW846 6010B	06/04-06/11/98	8155208
	104	(86 - 114)	0.78	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Beryllium	107	(83 - 117)			SW846 6010B	06/04-06/11/98	8155208
	106	(83 - 117)	0.40	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					

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Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: D8E230132 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Calcium	107	(88 - 112)			SW846 6010B	06/04-06/11/98	8155208
	107	(88 - 112)	0.16	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Cobalt	110	(80 - 120)			SW846 6010B	06/04-06/11/98	8155208
	109	(80 - 120)	0.45	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Chromium	103	(83 - 112)			SW846 6010B	06/04-06/11/98	8155208
	103	(83 - 112)	0.05	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Copper	103	(84 - 115)			SW846 6010B	06/04-06/11/98	8155208
	102	(84 - 115)	0.28	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Iron	117	(87 - 117)			SW846 6010B	06/04-06/11/98	8155208
	108	(87 - 117)	8.6	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Potassium	105	(82 - 111)			SW846 6010B	06/04-06/11/98	8155208
	104	(82 - 111)	0.74	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Magnesium	107	(84 - 114)			SW846 6010B	06/04-06/11/98	8155208
	107	(84 - 114)	0.44	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Manganese	104	(84 - 113)			SW846 6010B	06/04-06/11/98	8155208
	104	(84 - 113)	0.14	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Sodium	107	(86 - 115)			SW846 6010B	06/04-06/11/98	8155208
	105	(86 - 115)	1.9	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Nickel	106	(85 - 112)			SW846 6010B	06/04-06/11/98	8155208
	105	(85 - 112)	1.0	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					

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Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: D8E230132 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Vanadium	104	(85 - 114)			SW846 6010B	06/04-06/11/98	8155208
	104	(85 - 114)	0.28	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Zinc	104	(82 - 113)			SW846 6010B	06/04-06/11/98	8155208
	103	(82 - 113)	0.69	(0-10)	SW846 6010B	06/04-06/11/98	8155208
		Dilution Factor: 1					
Mercury	94	(77 - 117)			SW846 7470A	06/07-06/08/98	8158124
	101	(77 - 117)	7.2	(0-10)	SW846 7470A	06/07-06/08/98	8158124
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: D8E230132 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Arsenic	94	(86 - 108)			SW846 6010B	06/05-06/08/98	8156226
	95	(86 - 108)	0.54	(0-10)	SW846 6010B	06/05-06/08/98	8156226
		Dilution Factor: 1					
Silver	93	(80 - 115)			SW846 6010B	06/05-06/23/98	8156226
	92	(80 - 115)	1.3	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Aluminum	100	(88 - 120)			SW846 6010B	06/05-06/23/98	8156226
	99	(88 - 120)	0.89	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Lead	101	(92 - 115)			SW846 6010B	06/05-06/08/98	8156226
	102	(92 - 115)	0.82	(0-10)	SW846 6010B	06/05-06/08/98	8156226
		Dilution Factor: 1					
Antimony	108	(90 - 110)			SW846 6010B	06/05-06/08/98	8156226
	110	(90 - 110)	1.5	(0-10)	SW846 6010B	06/05-06/08/98	8156226
		Dilution Factor: 1					
Barium	98	(85 - 112)			SW846 6010B	06/05-06/23/98	8156226
	97	(85 - 112)	0.48	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Selenium	93	(80 - 120)			SW846 6010B	06/05-06/08/98	8156226
	94	(80 - 120)	1.4	(0-10)	SW846 6010B	06/05-06/08/98	8156226
		Dilution Factor: 1					
Beryllium	105	(78 - 118)			SW846 6010B	06/05-06/23/98	8156226
	105	(78 - 118)	0.0	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Thallium	99	(92 - 114)			SW846 6010B	06/05-06/08/98	8156226
	99	(92 - 114)	0.77	(0-10)	SW846 6010B	06/05-06/08/98	8156226
		Dilution Factor: 1					
Cadmium	109	(95 - 122)			SW846 6010B	06/05-06/08/98	8156226
	110	(95 - 122)	1.2	(0-10)	SW846 6010B	06/05-06/08/98	8156226
		Dilution Factor: 1					

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Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: D8E230132 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Calcium	101	(85 - 114)			SW846 6010B	06/05-06/23/98	8156226
	101	(85 - 114)	0.54	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Cobalt	101	(80 - 116)			SW846 6010B	06/05-06/23/98	8156226
	101	(80 - 116)	0.08	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Chromium	98	(83 - 112)			SW846 6010B	06/05-06/23/98	8156226
	98	(83 - 112)	0.42	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Copper	97	(84 - 115)			SW846 6010B	06/05-06/23/98	8156226
	96	(84 - 115)	0.75	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Potassium	97	(82 - 110)			SW846 6010B	06/05-06/23/98	8156226
	96	(82 - 110)	0.65	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Magnesium	99	(84 - 113)			SW846 6010B	06/05-06/23/98	8156226
	99	(84 - 113)	0.01	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Manganese	98	(84 - 114)			SW846 6010B	06/05-06/23/98	8156226
	98	(84 - 114)	0.03	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Sodium	99	(85 - 117)			SW846 6010B	06/05-06/23/98	8156226
	100	(85 - 117)	0.43	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Nickel	98	(84 - 112)			SW846 6010B	06/05-06/23/98	8156226
	98	(84 - 112)	0.15	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Vanadium	98	(85 - 116)			SW846 6010B	06/05-06/23/98	8156226
	98	(85 - 116)	0.05	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					

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Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: D8E230132 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Zinc	97	(80 - 120)			SW846 6010B	06/05-06/23/98	8156226
	98	(80 - 120)	1.3	(0-10)	SW846 6010B	06/05-06/23/98	8156226
		Dilution Factor: 1					
Mercury	93	(82 - 114)			SW846 7471A	06/05-06/07/98	8156245
	102	(82 - 114)	9.4	(0-10)	SW846 7471A	06/05-06/07/98	8156245
		Dilution Factor: 1					
Mercury	93	(82 - 114)			SW846 7471A	06/05-06/07/98	8156249
	94	(82 - 114)	0.51	(0-10)	SW846 7471A	06/05-06/07/98	8156249
		Dilution Factor: 1					
Mercury	92	(82 - 114)			SW846 7471A	06/05-06/07/98	8156293
	88	(82 - 114)	4.2	(0-10)	SW846 7471A	06/05-06/07/98	8156293
		Dilution Factor: 1					
Iron	103	(87 - 117)			SW846 6010B	06/29-07/01/98	8180198
	103	(87 - 117)	0.66	(0-10)	SW846 6010B	06/29-07/01/98	8180198
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D8F040000-208 **Prep Batch #...:** 8155208						
Antimony	ND	0.010	mg/L	SW846 6010B	06/04-06/08/98	CHPEK10Q
		Dilution Factor: 1				
		Analysis Time..: 08:13				
Arsenic	ND	0.010	mg/L	SW846 6010B	06/04-06/08/98	CHPEK10R
		Dilution Factor: 1				
		Analysis Time..: 08:13				
Cadmium	ND	0.0050	mg/L	SW846 6010B	06/04-06/08/98	CHPEK10T
		Dilution Factor: 1				
		Analysis Time..: 08:13				
Lead	ND	0.0070	mg/L	SW846 6010B	06/04-06/08/98	CHPEK10U
		Dilution Factor: 1				
		Analysis Time..: 08:13				
Selenium	ND	0.0085	mg/L	SW846 6010B	06/04-06/08/98	CHPEK10V
		Dilution Factor: 1				
		Analysis Time..: 08:13				
Thallium	ND	0.010	mg/L	SW846 6010B	06/04-06/08/98	CHPEK10W
		Dilution Factor: 1				
		Analysis Time..: 08:13				
Silver	ND	0.010	mg/L	SW846 6010B	06/04-06/11/98	CHPEK10X
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Aluminum	ND	0.10	mg/L	SW846 6010B	06/04-06/11/98	CHPEK110
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Barium	ND	0.010	mg/L	SW846 6010B	06/04-06/11/98	CHPEK111
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Beryllium	ND	0.0020	mg/L	SW846 6010B	06/04-06/11/98	CHPEK112
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Calcium	**0.048 B**	**0.20**	**mg/L**	**SW846 6010B**	**06/04-06/11/98**	**CHPEK101**
		Dilution Factor: 1				
		Analysis Time..: 22:05				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	0.010	mg/L	SW846 6010B	06/04-06/11/98	CHPEK10H
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Chromium	ND	0.010	mg/L	SW846 6010B	06/04-06/11/98	CHPEK10J
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Copper	ND	0.020	mg/L	SW846 6010B	06/04-06/11/98	CHPEK10K
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Iron	ND	0.10	mg/L	SW846 6010B	06/04-06/11/98	CHPEK102
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Potassium	ND	5.0	mg/L	SW846 6010B	06/04-06/11/98	CHPEK104
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Magnesium	ND	0.20	mg/L	SW846 6010B	06/04-06/11/98	CHPEK103
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Manganese	ND	0.010	mg/L	SW846 6010B	06/04-06/11/98	CHPEK10L
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Sodium	ND	5.0	mg/L	SW846 6010B	06/04-06/11/98	CHPEK105
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Nickel	ND	0.040	mg/L	SW846 6010B	06/04-06/11/98	CHPEK10M
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Vanadium	ND	0.010	mg/L	SW846 6010B	06/04-06/11/98	CHPEK10N
		Dilution Factor: 1				
		Analysis Time..: 22:05				
Zinc	ND	0.020	mg/L	SW846 6010B	06/04-06/11/98	CHPEK10P
		Dilution Factor: 1				
		Analysis Time..: 22:05				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D8F070000-124 **Prep Batch #...:** 8158124						
Mercury	ND	0.00020	mg/L	SW846 7470A	06/08/98	CHT0C101
		Dilution Factor: 1				
		Analysis Time..: 11:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	1.0	mg/kg	SW846 6010B	06/05-06/23/98	CHQW310P
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Chromium	ND	1.0	mg/kg	SW846 6010B	06/05-06/23/98	CHQW3101
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Copper	ND	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHQW3102
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Potassium	ND	500	mg/kg	SW846 6010B	06/05-06/23/98	CHQW3104
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Magnesium	**4.6 B**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHQW3105**
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Manganese	ND	1.0	mg/kg	SW846 6010B	06/05-06/23/98	CHQW3106
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Sodium	ND	500	mg/kg	SW846 6010B	06/05-06/23/98	CHQW3107
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Nickel	ND	4.0	mg/kg	SW846 6010B	06/05-06/23/98	CHQW3108
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Vanadium	ND	1.0	mg/kg	SW846 6010B	06/05-06/23/98	CHQW3109
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Zinc	ND	2.0	mg/kg	SW846 6010B	06/05-06/23/98	CHQW310A
		Dilution Factor: 1				
		Analysis Time..: 15:56				

MB Lot-Sample #: D8F050000-293 **Prep Batch #...:** 8156293

Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHRD5101
		Dilution Factor: 1				
		Analysis Time..: 12:00				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D8F050000-226 **Prep Batch #...:** 8156226						
Arsenic	ND	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHQW310C
		Dilution Factor: 1				
		Analysis Time..: 09:31				
Silver	ND	1.0	mg/kg	SW846 6010B	06/05-06/23/98	CHQW310J
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Aluminum	ND	10.0	mg/kg	SW846 6010B	06/05-06/23/98	CHQW310K
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Lead	ND	0.30	mg/kg	SW846 6010B	06/05-06/08/98	CHQW310D
		Dilution Factor: 1				
		Analysis Time..: 09:31				
Antimony	ND	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHQW310E
		Dilution Factor: 1				
		Analysis Time..: 09:31				
Barium	ND	1.0	mg/kg	SW846 6010B	06/05-06/23/98	CHQW310L
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Selenium	ND	0.50	mg/kg	SW846 6010B	06/05-06/08/98	CHQW310F
		Dilution Factor: 1				
		Analysis Time..: 09:31				
Beryllium	ND	0.20	mg/kg	SW846 6010B	06/05-06/23/98	CHQW310M
		Dilution Factor: 1				
		Analysis Time..: 15:56				
Thallium	ND	1.0	mg/kg	SW846 6010B	06/05-06/08/98	CHQW310G
		Dilution Factor: 1				
		Analysis Time..: 09:31				
Cadmium	ND	0.50	mg/kg	SW846 6010B	06/05-06/08/98	CHQW310H
		Dilution Factor: 1				
		Analysis Time..: 09:31				
Calcium	**32.1**	**20.0**	**mg/kg**	**SW846 6010B**	**06/05-06/23/98**	**CHQW310N**
		Dilution Factor: 1				
		Analysis Time..: 15:56				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D8F050000-245 **Prep Batch #...:** 8156245						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/07/98	CHR22101
		Dilution Factor: 1				
		Analysis Time..: 12:00				
MB Lot-Sample #: D8F050000-249 **Prep Batch #...:** 8156249						
***Mercury	INVALID DATA ON FOLLOWING LINE	0.1	mg/kg**	SW846 7471A	06/07/98	CHR42101
		Dilution Factor: 1				
		Analysis Time..: 12:00				
MB Lot-Sample #: D8F290000-198 **Prep Batch #...:** 8180198						
Iron	1.8 B	10.0	mg/kg	SW846 6010B	06/29-07/01/98	CJEL2101
		Dilution Factor: 1				
		Analysis Time..: 17:16				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** WATER
Date Sampled...: 05/21/98 10:16 **Date Received..:** 05/27/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E270172-001 **Prep Batch #...:** 8155208									
Antimony									
	ND	0.500	0.530	mg/L	106		SW846 6010B	06/04-06/08/98	CHGJ511I
	ND	0.500	0.551	mg/L	110	4.0	SW846 6010B	06/04-06/08/98	CHGJ511E
			Dilution Factor: 1						
			Analysis Time..: 08:50						
Arsenic									
	ND	2.00	1.87	mg/L	93		SW846 6010B	06/04-06/08/98	CHGJ511G
	ND	2.00	1.94	mg/L	97	3.8	SW846 6010B	06/04-06/08/98	CHGJ511J
			Dilution Factor: 1						
			Analysis Time..: 08:50						
Cadmium									
	ND	0.050	0.0530	mg/L	106		SW846 6010B	06/04-06/08/98	CHGJ511K
	ND	0.050	0.0547	mg/L	109	3.3	SW846 6010B	06/04-06/08/98	CHGJ511L
			Dilution Factor: 1						
			Analysis Time..: 08:50						
Lead									
	ND	0.500	0.489	mg/L	98		SW846 6010B	06/04-06/08/98	CHGJ511J
	ND	0.500	0.504	mg/L	101	3.2	SW846 6010B	06/04-06/08/98	CHGJ511F
			Dilution Factor: 1						
			Analysis Time..: 08:50						
Selenium									
	ND	2.00	1.01 N	mg/L	50		SW846 6010B	06/04-06/08/98	CHGJ511P
	ND	2.00	1.07 N	mg/L	54	6.0	SW846 6010B	06/04-06/08/98	CHGJ511[illegible]
			Dilution Factor: 1						
			Analysis Time..: 08:50						
Thallium									
	ND	2.00	1.90	mg/L	95		SW846 6010B	06/04-06/08/98	CHGJ511V
	ND	2.00	1.98	mg/L	99	4.0	SW846 6010B	06/04-06/08/98	CHGJ511W
			Dilution Factor: 1						
			Analysis Time..: 08:50						
Silver									
	ND	50.0	0.0431	mg/L	86		SW846 6010B	06/04-06/11/98	CHGJ512[illegible]
	ND	50.0	0.0443	mg/L	89	2.7	SW846 6010B	06/04-06/11/98	CHGJ512I
			Dilution Factor: 1						
			Analysis Time..: 22:19						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** WATER
Date Sampled...: 05/21/98 10:16 **Date Received..:** 05/27/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum									
	ND	2000	1.95	mg/L	97		SW846 6010B	06/04-06/11/98	CHGJ5123
	ND	2000	1.99	mg/L	100	2.2	SW846 6010B	06/04-06/11/98	CHGJ5124
			Dilution Factor: 1						
			Analysis Time..: 22:19						
Barium									
	0.26	2000	2.10	mg/L	105		SW846 6010B	06/04-06/11/98	CHGJ5126
	0.26	2000	2.16	mg/L	108	2.8	SW846 6010B	06/04-06/11/98	CHGJ5127
			Dilution Factor: 1						
			Analysis Time..: 22:19						
Beryllium									
	ND	50.0	0.0474	mg/L	95		SW846 6010B	06/04-06/11/98	CHGJ5129
	ND	50.0	0.0491	mg/L	98	3.6	SW846 6010B	06/04-06/11/98	CHGJ512A
			Dilution Factor: 1						
			Analysis Time..: 22:19						
Calcium									
	39.0	50.0	86.3	mg/L	95		SW846 6010B	06/04-06/11/98	CHGJ510A
	39.0	50.0	87.9	mg/L	98	1.8	SW846 6010B	06/04-06/11/98	CHGJ510C
			Dilution Factor: 1						
			Analysis Time..: 22:19						
Cobalt									
	ND	500	0.480	mg/L	96		SW846 6010B	06/04-06/11/98	CHGJ510N
	ND	500	0.502	mg/L	100	4.6	SW846 6010B	06/04-06/11/98	CHGJ510P
			Dilution Factor: 1						
			Analysis Time..: 22:19						
Chromium									
	ND	200	0.183	mg/L	92		SW846 6010B	06/04-06/11/98	CHGJ510R
	ND	200	0.192	mg/L	96	4.4	SW846 6010B	06/04-06/11/98	CHGJ510T
			Dilution Factor: 1						
			Analysis Time..: 22:19						
Copper									
	ND	250	0.231	mg/L	92		SW846 6010B	06/04-06/11/98	CHGJ510V
	ND	250	0.239	mg/L	96	3.5	SW846 6010B	06/04-06/11/98	CHGJ510W
			Dilution Factor: 1						
			Analysis Time..: 22:19						
Iron									
	ND	1.00	1.03	mg/L	94		SW846 6010B	06/04-06/11/98	CHGJ510D
	ND	1.00	1.07	mg/L	98	4.1	SW846 6010B	06/04-06/11/98	CHGJ510E
			Dilution Factor: 1						
			Analysis Time..: 22:19						

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Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** WATER
Date Sampled...: 05/21/98 10:16 **Date Received..:** 05/27/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium									
	2.4	50.0	49.9	mg/L	95		SW846 6010B	06/04-06/11/98	CHGJ510H
	2.4	50.0	51.4	mg/L	98	2.9	SW846 6010B	06/04-06/11/98	CHGJ510J
			Dilution Factor: 1						
			Analysis Time..: 22:19						
Magnesium									
	14.8	50.0	62.7	mg/L	96		SW846 6010B	06/04-06/11/98	CHGJ510I
	14.8	50.0	64.3	mg/L	99	2.6	SW846 6010B	06/04-06/11/98	CHGJ510G
			Dilution Factor: 1						
			Analysis Time..: 22:19						
Manganese									
	0.012	500	0.474	mg/L	95		SW846 6010B	06/04-06/11/98	CHGJ511[illegible]
	0.012	500	0.491	mg/L	98	3.4	SW846 6010B	06/04-06/11/98	CHGJ511[illegible]
			Dilution Factor: 1						
			Analysis Time..: 22:19						
Sodium									
	228	50.0	271	mg/L	86		SW846 6010B	06/04-06/11/98	CHGJ510K
	228	50.0	273	mg/L	91	0.90	SW846 6010B	06/04-06/11/98	CHGJ510[illegible]
			Dilution Factor: 1						
			Analysis Time..: 22:19						
Nickel									
	ND	500	0.474	mg/L	95		SW846 6010B	06/04-06/11/98	CHGJ511[illegible]
	ND	500	0.493	mg/L	99	3.8	SW846 6010B	06/04-06/11/98	CHGJ5114
			Dilution Factor: 1						
			Analysis Time..: 22:19						
Vanadium									
	ND	500	0.462	mg/L	92		SW846 6010B	06/04-06/11/98	CHGJ511[illegible]
	ND	500	0.480	mg/L	96	3.8	SW846 6010B	06/04-06/11/98	CHGJ511[illegible]
			Dilution Factor: 1						
			Analysis Time..: 22:19						
Zinc									
	ND	500	0.468	mg/L	94		SW846 6010B	06/04-06/11/98	CHGJ5119
	ND	500	0.482	mg/L	96	3.0	SW846 6010B	06/04-06/11/98	CHGJ511[illegible]
			Dilution Factor: 1						
			Analysis Time..: 22:19						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:55 **Date Received..:** 05/23/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E230132-008 **Prep Batch #...:** 8156293									
Mercury									
	ND	0.417	0.423	mg/kg	102		SW846 7471A	06/05-06/07/98	CHER510M
	ND	0.417	0.428	mg/kg	103	1.0	SW846 7471A	06/05-06/07/98	CHER510W

Dilution Factor: 1
Analysis Time..: 12:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID
Date Sampled...: 05/29/98 08:40 **Date Received..:** 06/04/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8F040167-001 **Prep Batch #...:** 8156249									
Mercury									
	0.045	0.556	0.570	mg/kg	94		SW846 7471A	06/05-06/07/98	CHPRX11C
	0.045	0.556	0.575	mg/kg	95	0.86	SW846 7471A	06/05-06/07/98	CHPRX11H

Dilution Factor: 1
Analysis Time..: 12:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID
Date Sampled...: 05/20/98 09:18 **Date Received..:** 05/21/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E210202-001 **Prep Batch #...:** 8156245									
Mercury									
	ND	0.446	0.438	mg/kg	98		SW846 7471A	06/05-06/07/98	CHD1K12L
	ND	0.446	0.448	mg/kg	101	2.2	SW846 7471A	06/05-06/07/98	CHD1K12M

Dilution Factor: 1
Analysis Time..: 12:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E230132-001 **Prep Batch #...:** 8156226										
Arsenic										
	1.8	200	191		mg/kg	95		SW846 6010B	06/05-06/08/98	CHEQW11I
	1.8	200	178		mg/kg	88	6.9	SW846 6010B	06/05-06/08/98	CHEQW11M
			Dilution Factor: 2							
			Analysis Time..: 11:24							
Silver										
	ND	5.00	3.82	N	mg/kg	76		SW846 6010B	06/05-06/23/98	CHEQW121
	ND	5.00	4.07		mg/kg	81	6.3	SW846 6010B	06/05-06/23/98	CHEQW122
			Dilution Factor: 2							
			Analysis Time..: 16:16							
Aluminum										
	2270	200	2870	NC	mg/kg			SW846 6010B	06/05-06/23/98	CHEQW123
	2270	200	2580	NC	mg/kg			SW846 6010B	06/05-06/23/98	CHEQW124
			Dilution Factor: 2							
			Analysis Time..: 16:16							
Lead										
	1.9	50.0	50.6		mg/kg	97		SW846 6010B	06/05-06/08/98	CHEQW11N
	1.9	50.0	47.0	N	mg/kg	90	7.5	SW846 6010B	06/05-06/08/98	CHEQW11P
			Dilution Factor: 2							
			Analysis Time..: 11:24							
Antimony										
	1.8	50.0	51.5		mg/kg	99		SW846 6010B	06/05-06/08/98	CHEQW11Q
	1.8	50.0	47.2		mg/kg	91	8.7	SW846 6010B	06/05-06/08/98	CHEQW11R
			Dilution Factor: 2							
			Analysis Time..: 11:24							
Barium										
	26.6	200	219		mg/kg	96		SW846 6010B	06/05-06/23/98	CHEQW125
	26.6	200	204		mg/kg	89	7.2	SW846 6010B	06/05-06/23/98	CHEQW126
			Dilution Factor: 2							
			Analysis Time..: 16:16							
Selenium										
	ND	200	193		mg/kg	96		SW846 6010B	06/05-06/08/98	CHEQW11T
	ND	200	182		mg/kg	91	6.3	SW846 6010B	06/05-06/08/98	CHEQW11U
			Dilution Factor: 2							
			Analysis Time..: 11:24							

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Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	ND	5.00	4.99	mg/kg	97		SW846 6010B	06/05-06/23/98	CHEQW127
	ND	5.00	4.59	mg/kg	89	8.2	SW846 6010B	06/05-06/23/98	CHEQW128
			Dilution Factor: 2						
			Analysis Time..: 16:16						
Thallium									
	ND	200	185	mg/kg	92		SW846 6010B	06/05-06/08/98	CHEQW11V
	ND	200	172 N	mg/kg	86	7.0	SW846 6010B	06/05-06/08/98	CHEQW11W
			Dilution Factor: 2						
			Analysis Time..: 11:24						
Cadmium									
	ND	5.00	5.22	mg/kg	102		SW846 6010B	06/05-06/08/98	CHEQW11X
	ND	5.00	4.91	mg/kg	96	6.2	SW846 6010B	06/05-06/08/98	CHEQW120
			Dilution Factor: 2						
			Analysis Time..: 11:24						
Calcium									
	164000	5000	180000 NC	mg/kg			SW846 6010B	06/05-06/23/98	CHEQW129
	164000	5000	175000 NC	mg/kg			SW846 6010B	06/05-06/23/98	CHEQW12A
			Dilution Factor: 2						
			Analysis Time..: 16:16						
Cobalt									
	0.91	50.0	47.8	mg/kg	94		SW846 6010B	06/05-06/23/98	CHEQW12C
	0.91	50.0	45.6	mg/kg	89	4.7	SW846 6010B	06/05-06/23/98	CHEQW12D
			Dilution Factor: 2						
			Analysis Time..: 16:16						
Chromium									
	3.1	20.0	21.9	mg/kg	94		SW846 6010B	06/05-06/23/98	CHEQW10X
	3.1	20.0	20.7	mg/kg	88	5.7	SW846 6010B	06/05-06/23/98	CHEQW110
			Dilution Factor: 2						
			Analysis Time..: 16:16						
Copper									
	1.4	25.0	25.4	mg/kg	96		SW846 6010B	06/05-06/23/98	CHEQW111
	1.4	25.0	24.2	mg/kg	91	4.8	SW846 6010B	06/05-06/23/98	CHEQW112
			Dilution Factor: 2						
			Analysis Time..: 16:16						
Potassium									
	484	5000	5430	mg/kg	99		SW846 6010B	06/05-06/23/98	CHEQW115
	484	5000	5210	mg/kg	95	4.2	SW846 6010B	06/05-06/23/98	CHEQW116
			Dilution Factor: 2						
			Analysis Time..: 16:16						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium									
	2830	5000	7790	mg/kg	99		SW846 6010B	06/05-06/23/98	CHEQW117
	2830	5000	7610	mg/kg	96	2.3	SW846 6010B	06/05-06/23/98	CHEQW118
			Dilution Factor: 2						
			Analysis Time..: 16:16						
Manganese									
	47.7	50.0	92.6	mg/kg	90		SW846 6010B	06/05-06/23/98	CHEQW119
	47.7	50.0	85.1 N	mg/kg	75	8.4	SW846 6010B	06/05-06/23/98	CHEQW11A
			Dilution Factor: 2						
			Analysis Time..: 16:16						
Sodium									
	ND	5000	4810	mg/kg	96		SW846 6010B	06/05-06/23/98	CHEQW11C
	ND	5000	4740	mg/kg	95	1.3	SW846 6010B	06/05-06/23/98	CHEQW11D
			Dilution Factor: 2						
			Analysis Time..: 16:16						
Nickel									
	2.4	50.0	47.5	mg/kg	90		SW846 6010B	06/05-06/23/98	CHEQW11E
	2.4	50.0	45.0	mg/kg	85	5.5	SW846 6010B	06/05-06/23/98	CHEQW11F
			Dilution Factor: 2						
			Analysis Time..: 16:16						
Vanadium									
	8.5	50.0	54.5	mg/kg	92		SW846 6010B	06/05-06/23/98	CHEQW11G
	8.5	50.0	51.4	mg/kg	86	5.9	SW846 6010B	06/05-06/23/98	CHEQW11H
			Dilution Factor: 2						
			Analysis Time..: 16:16						
Zinc									
	6.2	50.0	52.3	mg/kg	92		SW846 6010B	06/05-06/23/98	CHEQW11J
	6.2	50.0	50.6	mg/kg	89	3.4	SW846 6010B	06/05-06/23/98	CHEQW11K
			Dilution Factor: 2						
			Analysis Time..: 16:16						

MS Lot-Sample #: D8E230132-001 **Prep Batch #...:** 8180198

Iron									
	326	100	395 N	mg/kg	68		SW846 6010B	06/29-07/01/98	CHEQW12G
	326	100	347 N,*	mg/kg	20	13	SW846 6010B	06/29-07/01/98	CHEQW12H
			Dilution Factor: 2						
			Analysis Time..: 17:31						

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Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** WATER
Date Sampled...: 05/21/98 14:48 **Date Received..:** 05/27/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E270174-005 **Prep Batch #...:** 8158124									
Mercury									
	ND	0.005	0.00512	mg/L	102		SW846 7470A	06/07-06/08/98	CHGKT11N
	ND	0.005	0.00506	mg/L	101	1.1	SW846 7470A	06/07-06/08/98	CHGKT11N

Dilution Factor: 1
Analysis Time..: 11:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** WATER
Date Sampled...: 05/21/98 10:16 **Date Received..:** 05/27/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E270172-001 **Prep Batch #...:** 8155208							
Antimony	106	(89 - 115)			SW846 6010B	06/04-06/08/98	CHGJ511D
	110	(89 - 115)	4.0	(0-10)	SW846 6010B	06/04-06/08/98	CHGJ511E
		Dilution Factor: 1					
		Analysis Time..: 08:50					
Arsenic	93	(86 - 113)			SW846 6010B	06/04-06/08/98	CHGJ511G
	97	(86 - 113)	3.8	(0-10)	SW846 6010B	06/04-06/08/98	CHGJ511H
		Dilution Factor: 1					
		Analysis Time..: 08:50					
Cadmium	106	(95 - 121)			SW846 6010B	06/04-06/08/98	CHGJ511K
	109	(95 - 121)	3.3	(0-10)	SW846 6010B	06/04-06/08/98	CHGJ511L
		Dilution Factor: 1					
		Analysis Time..: 08:50					
Lead	98	(91 - 117)			SW846 6010B	06/04-06/08/98	CHGJ511N
	101	(91 - 117)	3.2	(0-10)	SW846 6010B	06/04-06/08/98	CHGJ511P
		Dilution Factor: 1					
		Analysis Time..: 08:50					
Selenium	50 N	(81 - 114)			SW846 6010B	06/04-06/08/98	CHGJ511R
	54 N	(81 - 114)	6.0	(0-10)	SW846 6010B	06/04-06/08/98	CHGJ511T
		Dilution Factor: 1					
		Analysis Time..: 08:50					
Thallium	95	(90 - 119)			SW846 6010B	06/04-06/08/98	CHGJ511V
	99	(90 - 119)	4.0	(0-10)	SW846 6010B	06/04-06/08/98	CHGJ511W
		Dilution Factor: 1					
		Analysis Time..: 08:50					
Silver	86	(83 - 115)			SW846 6010B	06/04-06/11/98	CHGJ5120
	89	(83 - 115)	2.7	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ5121
		Dilution Factor: 1					
		Analysis Time..: 22:19					
Aluminum	97	(86 - 117)			SW846 6010B	06/04-06/11/98	CHGJ5123
	100	(86 - 117)	2.2	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ5124
		Dilution Factor: 1					
		Analysis Time..: 22:19					
Barium	105	(86 - 114)			SW846 6010B	06/04-06/11/98	CHGJ5126
	108	(86 - 114)	2.8	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ5127
		Dilution Factor: 1					
		Analysis Time..: 22:19					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** WATER
Date Sampled...: 05/21/98 10:16 **Date Received..:** 05/27/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium	95	(83 - 117)			SW846 6010B	06/04-06/11/98	CHGJ5129
	98	(83 - 117)	3.6	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ512A
		Dilution Factor: 1					
		Analysis Time..: 22:19					
Calcium	95	(88 - 112)			SW846 6010B	06/04-06/11/98	CHGJ510A
	98	(88 - 112)	1.8	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ510C
		Dilution Factor: 1					
		Analysis Time..: 22:19					
Cobalt	96	(80 - 120)			SW846 6010B	06/04-06/11/98	CHGJ510N
	100	(80 - 120)	4.6	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ510P
		Dilution Factor: 1					
		Analysis Time..: 22:19					
Chromium	92	(83 - 112)			SW846 6010B	06/04-06/11/98	CHGJ510R
	96	(83 - 112)	4.4	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ510T
		Dilution Factor: 1					
		Analysis Time..: 22:19					
Copper	92	(84 - 115)			SW846 6010B	06/04-06/11/98	CHGJ510V
	96	(84 - 115)	3.5	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ510W
		Dilution Factor: 1					
		Analysis Time..: 22:19					
Iron	94	(87 - 117)			SW846 6010B	06/04-06/11/98	CHGJ510D
	98	(87 - 117)	4.1	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ510E
		Dilution Factor: 1					
		Analysis Time..: 22:19					
Potassium	95	(82 - 111)			SW846 6010B	06/04-06/11/98	CHGJ510H
	98	(82 - 111)	2.9	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ510J
		Dilution Factor: 1					
		Analysis Time..: 22:19					
Magnesium	96	(84 - 114)			SW846 6010B	06/04-06/11/98	CHGJ510F
	99	(84 - 114)	2.6	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ510G
		Dilution Factor: 1					
		Analysis Time..: 22:19					
Manganese	95	(84 - 113)			SW846 6010B	06/04-06/11/98	CHGJ5110
	98	(84 - 113)	3.4	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ5111
		Dilution Factor: 1					
		Analysis Time..: 22:19					

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Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** WATER
Date Sampled...: 05/21/98 10:16 **Date Received..:** 05/27/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	86	(86 - 115)			SW846 6010B	06/04-06/11/98	CHGJ510K
	91	(86 - 115)	0.90	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ510L
		Dilution Factor: 1					
		Analysis Time..: 22:19					
Nickel	95	(85 - 112)			SW846 6010B	06/04-06/11/98	CHGJ5113
	99	(85 - 112)	3.8	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ5114
		Dilution Factor: 1					
		Analysis Time..: 22:19					
Vanadium	92	(85 - 114)			SW846 6010B	06/04-06/11/98	CHGJ5116
	96	(85 - 114)	3.8	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ5117
		Dilution Factor: 1					
		Analysis Time..: 22:19					
Zinc	94	(82 - 113)			SW846 6010B	06/04-06/11/98	CHGJ5119
	96	(82 - 113)	3.0	(0-10)	SW846 6010B	06/04-06/11/98	CHGJ511A
		Dilution Factor: 1					
		Analysis Time..: 22:19					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 10:55 **Date Received..:** 05/23/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E230132-008 **Prep Batch #...:** 8156293							
Mercury	102	(82 - 114)			SW846 7471A	06/05-06/07/98	CHER510M
	103	(82 - 114)	1.0	(0-10)	SW846 7471A	06/05-06/07/98	CHER510W
		Dilution Factor: 1					
		Analysis Time..: 12:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID
Date Sampled...: 05/29/98 08:40 **Date Received..:** 06/04/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8F040167-001 **Prep Batch #...:** 8156249							
Mercury	94	(82 - 114)			SW846 7471A	06/05-06/07/98	CHPRX11G
	95	(82 - 114)	0.86	(0-10)	SW846 7471A	06/05-06/07/98	CHPRX11H

Dilution Factor: 1
Analysis Time..: 12:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID
Date Sampled...: 05/20/98 09:18 **Date Received..:** 05/21/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E210202-001 **Prep Batch #...:** 8156245							
Mercury	98	(82 - 114)			SW846 7471A	06/05-06/07/98	CHD1K12L
	101	(82 - 114)	2.2	(0-10)	SW846 7471A	06/05-06/07/98	CHD1K12M
		Dilution Factor: 1					
		Analysis Time..: 12:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E230132-001 **Prep Batch #...:** 8156226							
Arsenic	95	(86 - 108)			SW846 6010B	06/05-06/08/98	CHEQW11L
	88	(86 - 108)	6.9	(0-10)	SW846 6010B	06/05-06/08/98	CHEQW11M
		Dilution Factor: 2					
		Analysis Time..: 11:24					
Silver	76 N	(80 - 115)			SW846 6010B	06/05-06/23/98	CHEQW121
	81	(80 - 115)	6.3	(0-10)	SW846 6010B	06/05-06/23/98	CHEQW122
		Dilution Factor: 2					
		Analysis Time..: 16:16					
Aluminum	NC	(88 - 120)			SW846 6010B	06/05-06/23/98	CHEQW123
	NC	(88 - 120)		(0-10)	SW846 6010B	06/05-06/23/98	CHEQW124
		Dilution Factor: 2					
		Analysis Time..: 16:16					
Lead	97	(92 - 115)			SW846 6010B	06/05-06/08/98	CHEQW11N
	90 N	(92 - 115)	7.5	(0-10)	SW846 6010B	06/05-06/08/98	CHEQW11P
		Dilution Factor: 2					
		Analysis Time..: 11:24					
Antimony	99	(90 - 110)			SW846 6010B	06/05-06/08/98	CHEQW11Q
	91	(90 - 110)	8.7	(0-10)	SW846 6010B	06/05-06/08/98	CHEQW11R
		Dilution Factor: 2					
		Analysis Time..: 11:24					
Barium	96	(85 - 112)			SW846 6010B	06/05-06/23/98	CHEQW125
	89	(85 - 112)	7.2	(0-10)	SW846 6010B	06/05-06/23/98	CHEQW126
		Dilution Factor: 2					
		Analysis Time..: 16:16					
Selenium	96	(80 - 120)			SW846 6010B	06/05-06/08/98	CHEQW11T
	91	(80 - 120)	6.3	(0-10)	SW846 6010B	06/05-06/08/98	CHEQW11U
		Dilution Factor: 2					
		Analysis Time..: 11:24					
Beryllium	97	(78 - 118)			SW846 6010B	06/05-06/23/98	CHEQW127
	89	(78 - 118)	8.2	(0-10)	SW846 6010B	06/05-06/23/98	CHEQW128
		Dilution Factor: 2					
		Analysis Time..: 16:16					
Thallium	92	(92 - 114)			SW846 6010B	06/05-06/08/98	CHEQW11V
	86 N	(92 - 114)	7.0	(0-10)	SW846 6010B	06/05-06/08/98	CHEQW11W
		Dilution Factor: 2					
		Analysis Time..: 11:24					

(Continued on next page)

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium	102	(95 - 122)			SW846 6010B	06/05-06/08/98	CHEQW11X
	96	(95 - 122)	6.2	(0-10)	SW846 6010B	06/05-06/08/98	CHEQW120
		Dilution Factor: 2					
		Analysis Time..: 11:24					
Calcium	NC	(85 - 114)			SW846 6010B	06/05-06/23/98	CHEQW129
	NC	(85 - 114)		(0-10)	SW846 6010B	06/05-06/23/98	CHEQW12A
		Dilution Factor: 2					
		Analysis Time..: 16:16					
Cobalt	94	(80 - 116)			SW846 6010B	06/05-06/23/98	CHEQW12C
	89	(80 - 116)	4.7	(0-10)	SW846 6010B	06/05-06/23/98	CHEQW12D
		Dilution Factor: 2					
		Analysis Time..: 16:16					
Chromium	94	(83 - 112)			SW846 6010B	06/05-06/23/98	CHEQW10X
	88	(83 - 112)	5.7	(0-10)	SW846 6010B	06/05-06/23/98	CHEQW110
		Dilution Factor: 2					
		Analysis Time..: 16:16					
Copper	96	(84 - 115)			SW846 6010B	06/05-06/23/98	CHEQW111
	91	(84 - 115)	4.8	(0-10)	SW846 6010B	06/05-06/23/98	CHEQW112
		Dilution Factor: 2					
		Analysis Time..: 16:16					
Potassium	99	(82 - 110)			SW846 6010B	06/05-06/23/98	CHEQW115
	95	(82 - 110)	4.2	(0-10)	SW846 6010B	06/05-06/23/98	CHEQW116
		Dilution Factor: 2					
		Analysis Time..: 16:16					
Magnesium	99	(84 - 113)			SW846 6010B	06/05-06/23/98	CHEQW117
	96	(84 - 113)	2.3	(0-10)	SW846 6010B	06/05-06/23/98	CHEQW118
		Dilution Factor: 2					
		Analysis Time..: 16:16					
Manganese	90	(84 - 114)			SW846 6010B	06/05-06/23/98	CHEQW119
	75 N	(84 - 114)	8.4	(0-10)	SW846 6010B	06/05-06/23/98	CHEQW11A
		Dilution Factor: 2					
		Analysis Time..: 16:16					
Sodium	96	(85 - 117)			SW846 6010B	06/05-06/23/98	CHEQW11C
	95	(85 - 117)	1.3	(0-10)	SW846 6010B	06/05-06/23/98	CHEQW11D
		Dilution Factor: 2					
		Analysis Time..: 16:16					

(Continued on next page)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** SOLID
Date Sampled...: 05/21/98 09:00 **Date Received..:** 05/23/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	90	(84 - 112)			SW846 6010B	06/05-06/23/98	CHEQW11E
	85	(84 - 112)	5.5	(0-10)	SW846 6010B	06/05-06/23/98	CHEQW11F
		Dilution Factor: 2					
		Analysis Time..: 16:16					
Vanadium	92	(85 - 116)			SW846 6010B	06/05-06/23/98	CHEQW11G
	86	(85 - 116)	5.9	(0-10)	SW846 6010B	06/05-06/23/98	CHEQW11H
		Dilution Factor: 2					
		Analysis Time..: 16:16					
Zinc	92	(80 - 120)			SW846 6010B	06/05-06/23/98	CHEQW11J
	89	(80 - 120)	3.4	(0-10)	SW846 6010B	06/05-06/23/98	CHEQW11K
		Dilution Factor: 2					
		Analysis Time..: 16:16					

MS Lot-Sample #: D8E230132-001 **Prep Batch #...:** 8180198

Iron	68 N	(87 - 117)			SW846 6010B	06/29-07/01/98	CHEQW12G
	20 N,*	(87 - 117)	13	(0-10)	SW846 6010B	06/29-07/01/98	CHEQW12H
		Dilution Factor: 2					
		Analysis Time..: 17:31					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8E230132 **Matrix.....:** WATER
Date Sampled...: 05/21/98 14:48 **Date Received..:** 05/27/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E270174-005 **Prep Batch #...:** 8158124							
Mercury	102	(77 - 117)			SW846 7470A	06/07-06/08/98	CHGKT11M
	101	(77 - 117)	1.1	(0-10)	SW846 7470A	06/07-06/08/98	CHGKT11N

Dilution Factor: 1
Analysis Time..: 11:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Chain of Custody Record

Quanterra

QUA-4124 0797

23888

Client: Fluor Daniel GTI	Project Manager: Chuck Schick	Date: 5-21-98	Chain of Custody Number: 13595
Address: 2501 Yale Blvd SE, #204	Telephone Number (Area Code)/Fax Number: 505/242-3113 / 505-242-1103	Lab Number: 08E230 / 132	Page ____ of ____
City: Albuquerque; State: NM; Zip Code: 87106	Site Contact	Lab Contact	
Project Name: Rita's Draw	Carrier/Waybill Number: FedEx 803815390517		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/ NaOH	EPA 8260 B	Explosives (8330)	SVOC's (8270C)	TAL Metals 6010/7000	[redacted]
RITA-1-2	5/21/98	0900			X	X						X	X	X	X	
RITA-1-9		0912			X	X						X	X	X	X	
RITA-1-15		0930			X	X						X	X	X	X	
RITA-1-20		0950			X	X						X	X	X	X	
RITA-2-2		1035			X	X						X	X	X	X	
RITA-2-5		1040			X	X						X	X	X	X	
RITA-2-12		1055			X	X						X	X	X	X	
RITA-2-12-DUP		1055			X	X						X	X	X	X	
RITA-2-18		1110			X	X						X	X	X	X	
RITA-4-2		1150			X	X						X	X	X	X	
RITA-4-8		1215			X	X						X	X	X	X	
RITA-3-2		1300			X	X						X	X	X	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☒ 21 Days ☐ Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	5-22-98	1500	1. Received By	5/23/98	0900
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

Quanterra

23888

QUA-4124 0797

Client: Fluor Daniel GTI	Project Manager: Chuck Schick	Date: 5-21-98	Chain of Custody Number: 13596
Address: 2501 Yale Blvd SE, #204	Telephone Number (Area Code)/Fax Number: (505) 242-3113 / (505) 242-1103	Lab Number: D R23832	Page ____ of ____
City: Albuquerque; State: NM; Zip Code: 87106	Site Contact:	Lab Contact:	
Project Name: Rita's Draw	Carrier/Waybill Number: FedEx / 8038153904 91		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): VOC's 8260B	Explosives 8330	SVOC 8270C	TAL metals 6010/7000	Dissolved (Samples are filtered)						Special Instructions/ Conditions of Receipt
3 RITA-4-GW-8	5/21/98	1230	X						X	X				X	X	X	X							
4 RITA-3-GW-7	↓	1430	X						X	X				X	X	X	X							
RITA-3-GWDP-7	↓	1430	X						X	X				X	X	X	X							

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other ____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	5-22-98	1500	1. Received By: [signature]	5/23/98	0900
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

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SAMPLE CHECKLIST

Project #: 08E230132 Date/Time Received: 5/23/98 0900

Company Name & Sampling Site: Fluor Daniel

*Cooler #(s): 04 #2

Temperatures: (0.4) 0.5

Unpacking & Labeling Check Points:

N/A	Yes	No		Initials
	☑	☐	1. Radiation checked, record if reading > 0.5 mR/hr. (_____mR/hr)	
	☑	☐	2. Cooler seals intact.	
	☑	☐	3. Chain of custody present.	
	☐	☑	4. Bottles broken and/or are leaking, comment if yes.	
			PHOTOGRAPH BROKEN BOTTLES	
	☑	☐	5. Containers labeled, comment if no.	
	☑	☐	6. pH of all samples checked and meet requirements, note exceptions.	
	☑	☐	7. Chain of custody includes "received by" and "relinquished" by signatures, dates, and times.	
	☐	☑	8. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.	
	☑	☐	9. Chain of custody agrees with bottle count, comment if no.	
	☑	☐	10. Chain of custody agrees with labels, comment if no.	
☐	☑	☐	11. VOA samples filled completely, comment if no.	
☐	☑	☐	12. VOA bottles preserved, check for labels.	
	☐	☑	13. Did samples require preservation with sodium thiosulfate?	
☑	☐	☐	14. If yes to #12, did the samples contain residual chlorine?	
☑	☐	☐	15. Sediment present in "D," dissolved, bottles.	
	☐	☑	16. Are analyses with short holding times requested?	
☑	☐	☐	17. Is extra sample volume provided for MS, MSD or matrix duplicates?	
	☐	☑	18. Multiphase samples present? If yes, comment below.	
	☐	☑	19. Any subsampling for volatiles? If yes, list samples.	
			PHOTOGRAPH MULTIPHASE SAMPLES	
	☑	☐	20. Clear picture taken, labeled, and stapled to project folder.	
☑	☐	☐	21. Subout COC signed and sent with samples to bottle prep?	
	☑	☐	22. Was sample labeling double checked?	

Comments: Include action taken to resolve discrepancies/problems. Include a hard copy of e-mail or use extra paper if more space is needed. _____

_____ Initials: _____

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ANALYTICAL REPORT

Holloman AFB

Lot #: D8E270125

Mr. Chuck Schick

Fluor Daniel GTI

QUANTERRA INCORPORATED

Lindsay Breyer
Project Manager

July 23, 1998

Quanterra

Case Narrative

Standard analytical protocols were followed in the analyses of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits.

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Table Of Contents

Standard Deliverable

Report Contents

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- Executive Summary – Detection Highlights
- Analytical Method Summary
- Method/ Analyst Summary
- Sample Summary
- Analytical Results by Sample
- QC Data Association Summary
- Chain-of-Custody

Total Number of Pages

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EXECUTIVE SUMMARY - Detection Highlights

D8E270125

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WASTE DRUM 05/23/98 11:30 001				
Antimony - DISSOLVED	19.9	10.0	ug/L	SW846 6010B
Selenium - DISSOLVED	24.8	5.0	ug/L	SW846 6010B
Calcium - DISSOLVED	778000	1000	ug/L	SW846 6010B
	Qualifiers: MSB,D,Q,L			
Copper - DISSOLVED	21.6	100	ug/L	SW846 6010B
	Qualifiers: B,D,Q			
Potassium - DISSOLVED	24700	25000	ug/L	SW846 6010B
	Qualifiers: B,D,Q,L			
Magnesium - DISSOLVED	822000	1000	ug/L	SW846 6010B
	Qualifiers: MSB,D,Q,L			
Manganese - DISSOLVED	308 D,Q,L	50.0	ug/L	SW846 6010B
Sodium - DISSOLVED	3930000	25000	ug/L	SW846 6010B
	Qualifiers: MSB,D,Q,L			
Zinc - DISSOLVED	312 D,Q	100	ug/L	SW846 6010B
Acetone	320 J	500	ug/L	SW846 8260A
Ethylbenzene	5.2 J	50	ug/L	SW846 8260A
Methylene chloride	6.8 J	50	ug/L	SW846 8260A
Toluene	11 J	50	ug/L	SW846 8260A

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ANALYTICAL METHODS SUMMARY

D8E270125

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Semivolatile Organic Compounds by GC/MS	SW846 8270B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260A

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

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METHOD / ANALYST SUMMARY

D8E270125

ANALYTICAL METHOD	ANALYST	ANALYST ID
SW846 6010B	William G. Logan	002179
SW846 7470A	Greg T. Brott	8463
SW846 8260A	Mike G. Hoffman	001880
SW846 8270B	Deborah Coyle	001425

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

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SAMPLE SUMMARY

D8E270125

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CHG01	001	WASTE DRUM	05/23/98	11:30

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

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FLUOR DANIEL INC

Client Sample ID: WASTE DRUM

GC/MS Volatiles

Lot-Sample #...: D8E270125-001 **Work Order #...:** CHG01101 **Matrix.....:** WATER
Date Sampled...: 05/23/98 11:30 **Date Received..:** 05/27/98
Prep Date.....: 06/05/98 **Analysis Date..:** 06/05/98
Prep Batch #...: 8159257 **Analysis Time..:** 12:55
Dilution Factor: 50 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**320 J**	**500**	**ug/L**
Benzene	ND	50	ug/L
Bromodichloromethane	ND	50	ug/L
Bromoform	ND	50	ug/L
Bromomethane	ND	100	ug/L
Carbon disulfide	ND	50	ug/L
Carbon tetrachloride	ND	50	ug/L
Chlorobenzene	ND	50	ug/L
Chlorodibromomethane	ND	50	ug/L
Chloroethane	ND	100	ug/L
Chloroform	ND	50	ug/L
Chloromethane	ND	100	ug/L
1,1-Dichloroethane	ND	50	ug/L
1,2-Dichloroethane	ND	50	ug/L
1,1-Dichloroethene	ND	50	ug/L
1,2-Dichloroethene (total)	ND	50	ug/L
1,2-Dichloropropane	ND	50	ug/L
cis-1,3-Dichloropropene	ND	50	ug/L
trans-1,3-Dichloropropene	ND	50	ug/L
Ethylbenzene	**5.2 J**	**50**	**ug/L**
2-Hexanone	ND	250	ug/L
Methylene chloride	**6.8 J**	**50**	**ug/L**
4-Methyl-2-pentanone	ND	250	ug/L
Styrene	ND	50	ug/L
1,1,2,2-Tetrachloroethane	ND	50	ug/L
Tetrachloroethene	ND	50	ug/L
Toluene	**11 J**	**50**	**ug/L**
1,1,1-Trichloroethane	ND	50	ug/L
1,1,2-Trichloroethane	ND	50	ug/L
Trichloroethene	ND	50	ug/L
Vinyl chloride	ND	100	ug/L
Xylenes (total)	ND	50	ug/L
2-Butanone (MEK)	ND	250	ug/L
trans-1,4-Dichloro-2-butene	ND	50	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(78 - 113)
4-Bromofluorobenzene	102	(88 - 113)
Toluene-d8	98	(90 - 108)

(Continued on next page)

Quanterra

FLUOR DANIEL INC

Client Sample ID: WASTE DRUM

GC/MS Volatiles

Lot-Sample #...: D8E270125-001 **Work Order #...:** CHG01101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

Quanterra

FLUOR DANIEL INC

Client Sample ID: WASTE DRUM

GC/MS Semivolatiles

Lot-Sample #...: D8E270125-001 **Work Order #...:** CHG01102 **Matrix.....:** WATER
Date Sampled...: 05/23/98 11:30 **Date Received..:** 05/27/98
Prep Date.....: 05/29/98 **Analysis Date..:** 06/02/98
Prep Batch #...: 8149189 **Analysis Time..:** 19:38
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
Anthracene	ND	10	ug/L
Benzo(a)anthracene	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
Carbazole	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Chrysene	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
bis(2-Chloroisopropyl) ether	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Dibenzofuran	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
2,4-Dichlorophenol	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
Dimethyl phthalate	ND	10	ug/L
1,3-Dinitrobenzene	ND	10	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L

(Continued on next page)

Quanterra

FLUOR DANIEL INC

Client Sample ID: WASTE DRUM

GC/MS Semivolatiles

Lot-Sample #...: D8E270125-001 **Work Order #...:** CHG01102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	ND	50	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Fluorene	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
Hexachloroethane	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
Naphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
3-Nitroaniline	ND	50	ug/L
4-Nitroaniline	ND	50	ug/L
Nitrobenzene	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
4-Nitrophenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenacetin	ND	20	ug/L
Phenanthrene	ND	10	ug/L
Phenol	ND	10	ug/L
Pyrene	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	4.6 *	(54 - 110)
Phenol-d5	8.4 *	(57 - 117)
Nitrobenzene-d5	55	(54 - 116)
2-Fluorobiphenyl	55	(49 - 102)
2,4,6-Tribromophenol	1.6 *	(46 - 127)
Terphenyl-d14	63	(57 - 117)

NOTE(S):

* Surrogate recovery is outside stated control limits.

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

Quanterra

FLUOR DANIEL INC

Client Sample ID: WASTE DRUM

DISSOLVED Metals

Lot-Sample #...: D8E270125-001 **Matrix.....:** WATER
Date Sampled...: 05/23/98 11:30 **Date Received..:** 05/27/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8166343						
Mercury	ND	0.20	ug/L	SW846 7470A	06/16-06/17/98	CHG0110T
		Dilution Factor: 1		Analysis Time..: 15:00		
Prep Batch #...: 8183284						
Silver	ND D,Q	50.0	ug/L	SW846 6010B	07/01/98	CHG01109
		Dilution Factor: 5		Analysis Time..: 12:44		
Aluminum	ND D,Q	500	ug/L	SW846 6010B	07/01/98	CHG0110A
		Dilution Factor: 5		Analysis Time..: 12:44		
Barium	ND D,Q	50.0	ug/L	SW846 6010B	07/01/98	CHG0110C
		Dilution Factor: 5		Analysis Time..: 12:44		
Beryllium	ND D,Q	10.0	ug/L	SW846 6010B	07/01/98	CHG0110D
		Dilution Factor: 5		Analysis Time..: 12:44		
Calcium	**778000 MSB,D,**	**1000**	**ug/L**	**SW846 6010B**	**07/01/98**	**CHG0110E**
		Dilution Factor: 5		Analysis Time..: 12:44		
Cobalt	ND D,Q	50.0	ug/L	SW846 6010B	07/01/98	CHG0110F
		Dilution Factor: 5		Analysis Time..: 12:44		
Chromium	ND D,Q	50.0	ug/L	SW846 6010B	07/01/98	CHG0110G
		Dilution Factor: 5		Analysis Time..: 12:44		
Copper	**21.6 B,D,Q**	**100**	**ug/L**	**SW846 6010B**	**07/01/98**	**CHG0110H**
		Dilution Factor: 5		Analysis Time..: 12:44		
Iron	ND D,Q	500	ug/L	SW846 6010B	07/01/98	CHG0110J
		Dilution Factor: 5		Analysis Time..: 12:44		
Potassium	**24700 B,D,Q,L**	**25000**	**ug/L**	**SW846 6010B**	**07/01/98**	**CHG0110K**
		Dilution Factor: 5		Analysis Time..: 12:44		
Magnesium	**822000 MSB,D,**	**1000**	**ug/L**	**SW846 6010B**	**07/01/98**	**CHG0110L**
		Dilution Factor: 5		Analysis Time..: 12:44		
Manganese	**308 D,Q,L**	**50.0**	**ug/L**	**SW846 6010B**	**07/01/98**	**CHG0110M**
		Dilution Factor: 5		Analysis Time..: 12:44		
Sodium	**3930000 MSB,D,Q,L**	**25000**	**ug/L**	**SW846 6010B**	**07/01/98**	**CHG0110N**
		Dilution Factor: 5		Analysis Time..: 12:44		

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Quanterra

FLUOR DANIEL INC

Client Sample ID: WASTE DRUM

DISSOLVED Metals

Lot-Sample #...: D8E270125-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	ND D,Q	200	ug/L	SW846 6010B	07/01/98	CHG0110P
		Dilution Factor: 5		Analysis Time..: 12:44		
Vanadium	ND D,Q	50.0	ug/L	SW846 6010B	07/01/98	CHG0110Q
		Dilution Factor: 5		Analysis Time..: 12:44		
Zinc	**312 D,Q**	**100**	**ug/L**	**SW846 6010B**	**07/01/98**	**CHG0110R**
		Dilution Factor: 5		Analysis Time..: 12:44		
Prep Batch #...: 8189292						
Arsenic	ND	10.0	ug/L	SW846 6010B	07/08/98	CHG01103
		Dilution Factor: 1		Analysis Time..: 14:12		
Cadmium	ND	5.0	ug/L	SW846 6010B	07/08/98	CHG01104
		Dilution Factor: 1		Analysis Time..: 14:12		
Lead	ND	3.0	ug/L	SW846 6010B	07/08/98	CHG01105
		Dilution Factor: 1		Analysis Time..: 14:12		
Antimony	**19.9**	**10.0**	**ug/L**	**SW846 6010B**	**07/08/98**	**CHG01106**
		Dilution Factor: 1		Analysis Time..: 14:12		
Selenium	**24.8**	**5.0**	**ug/L**	**SW846 6010B**	**07/08/98**	**CHG01107**
		Dilution Factor: 1		Analysis Time..: 14:12		
Thallium	ND	10.0	ug/L	SW846 6010B	07/08/98	CHG01108
		Dilution Factor: 1		Analysis Time..: 14:12		

NOTE(S):

D Result was obtained from the analysis of a dilution.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

L Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.

B Estimated result. Result is less than RL.

Quanterra

QC DATA ASSOCIATION SUMMARY

D8E270125

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8270B		8149189	
	WATER	SW846 8260A		8159257	8159093
	WATER	SW846 7470A		8166343	8166166
	WATER	SW846 6010B		8189292	8189139
	WATER	SW846 6010B		8183284	8183134

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D8E270125 **Work Order #...:** CHTGE102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8F080000-257 CHTGE103-LCSD
Prep Date.....: 06/05/98 **Analysis Date..:** 06/05/98
Prep Batch #...: 8159257 **Analysis Time..:** 11:21
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**102**	**(85 - 115)**			**SW846 8260A**
	102	**(85 - 115)**	**0.75**	**(0-20)**	**SW846 8260A**
Chlorobenzene	**102**	**(91 - 112)**			**SW846 8260A**
	103	**(91 - 112)**	**1.0**	**(0-20)**	**SW846 8260A**
1,1-Dichloroethene	**101**	**(69 - 126)**			**SW846 8260A**
	111	**(69 - 126)**	**8.9**	**(0-20)**	**SW846 8260A**
Toluene	**100**	**(89 - 112)**			**SW846 8260A**
	102	**(89 - 112)**	**2.2**	**(0-20)**	**SW846 8260A**
Trichloroethene	**104**	**(85 - 111)**			**SW846 8260A**
	104	**(85 - 111)**	**0.44**	**(0-20)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(78 - 113)
	94	(78 - 113)
4-Bromofluorobenzene	101	(88 - 113)
	99	(88 - 113)
Toluene-d8	98	(90 - 108)
	100	(90 - 108)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8E270125 **Work Order #...:** CHTGE102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8F080000-257 CHTGE103-LCSD
Prep Date.....: 06/05/98 **Analysis Date..:** 06/05/98
Prep Batch #...: 8159257 **Analysis Time..:** 11:21
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**10.0**	**10.2**	**ug/L**	**102**		**SW846 8260A**
	10.0	**10.2**	**ug/L**	**102**	**0.75**	**SW846 8260A**
Chlorobenzene	**10.0**	**10.2**	**ug/L**	**102**		**SW846 8260A**
	10.0	**10.3**	**ug/L**	**103**	**1.0**	**SW846 8260A**
1,1-Dichloroethene	**10.0**	**10.1**	**ug/L**	**101**		**SW846 8260A**
	10.0	**11.1**	**ug/L**	**111**	**8.9**	**SW846 8260A**
Toluene	**10.0**	**10.0**	**ug/L**	**100**		**SW846 8260A**
	10.0	**10.2**	**ug/L**	**102**	**2.2**	**SW846 8260A**
Trichloroethene	**10.0**	**10.4**	**ug/L**	**104**		**SW846 8260A**
	10.0	**10.4**	**ug/L**	**104**	**0.44**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(78 - 113)
	94	(78 - 113)
4-Bromofluorobenzene	101	(88 - 113)
	99	(88 - 113)
Toluene-d8	98	(90 - 108)
	100	(90 - 108)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8E270125 **Work Order #...:** CHTGE101 **Matrix.....:** WATER
MB Lot-Sample #: D8F080000-257

Prep Date.....: 06/05/98 **Analysis Time..:** 11:43
Analysis Date..: 06/05/98 **Prep Batch #...:** 8159257
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**6.5 J**	**10**	**ug/L**	**SW846 8260A**
Benzene	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Chlorodibromomethane	ND	1.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
Chloromethane	ND	2.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
2-Hexanone	ND	5.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A
2-Butanone (MEK)	ND	5.0	ug/L	SW846 8260A
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(78 - 113)
4-Bromofluorobenzene	101	(88 - 113)
Toluene-d8	98	(90 - 108)

(Continued on next page)

Quanterra

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8E270125 **Work Order #...:** CHTGE101 **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D8E270125 **Work Order #...:** CHK9C104-MS **Matrix.....:** WATER
MS Lot-Sample #: D8E300109-009 CHK9C105-MSD
Date Sampled...: 05/28/98 15:40 **Date Received..:** 05/29/98
Prep Date.....: 06/05/98 **Analysis Date..:** 06/05/98
Prep Batch #...: 8159257 **Analysis Time..:** 14:21
Dilution Factor: 50

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**104**	**(85 - 115)**			**SW846 8260A**
	102	**(85 - 115)**	**1.6**	**(0-20)**	**SW846 8260A**
Chlorobenzene	**103**	**(91 - 112)**			**SW846 8260A**
	103	**(91 - 112)**	**0.11**	**(0-20)**	**SW846 8260A**
1,1-Dichloroethene	**98**	**(69 - 126)**			**SW846 8260A**
	92	**(69 - 126)**	**6.4**	**(0-20)**	**SW846 8260A**
Toluene	**99**	**(89 - 112)**			**SW846 8260A**
	98	**(89 - 112)**	**0.99**	**(0-20)**	**SW846 8260A**
Trichloroethene	**95**	**(85 - 111)**			**SW846 8260A**
	89	**(85 - 111)**	**1.2**	**(0-20)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(78 - 113)
	95	(78 - 113)
4-Bromofluorobenzene	102	(88 - 113)
	102	(88 - 113)
Toluene-d8	96	(90 - 108)
	96	(90 - 108)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8E270125 **Work Order #...:** CHK9C104-MS **Matrix.....:** WATER
MS Lot-Sample #: D8E300109-009 CHK9C105-MSD
Date Sampled...: 05/28/98 15:40 **Date Received..:** 05/29/98
Prep Date.....: 06/05/98 **Analysis Date..:** 06/05/98
Prep Batch #...: 8159257 **Analysis Time..:** 14:21
Dilution Factor: 50

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene		**500**	**538**	**ug/L**	**104**		**SW846 8260A**
		500	**530**	**ug/L**	**102**	**1.6**	**SW846 8260A**
Chlorobenzene		**500**	**516**	**ug/L**	**103**		**SW846 8260A**
		500	**516**	**ug/L**	**103**	**0.11**	**SW846 8260A**
1,1-Dichloroethene		**500**	**491**	**ug/L**	**98**		**SW846 8260A**
		500	**460**	**ug/L**	**92**	**6.4**	**SW846 8260A**
Toluene		**500**	**515**	**ug/L**	**99**		**SW846 8260A**
		500	**510**	**ug/L**	**98**	**0.99**	**SW846 8260A**
Trichloroethene	**2100**	**500**	**2570**	**ug/L**	**95**		**SW846 8260A**
	2100	**500**	**2540**	**ug/L**	**89**	**1.2**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(78 - 113)
	95	(78 - 113)
4-Bromofluorobenzene	102	(88 - 113)
	102	(88 - 113)
Toluene-d8	96	(90 - 108)
	96	(90 - 108)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D8E270125 **Work Order #...:** CHJCL102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8E290000-189 CHJCL103-LCSD
Prep Date.....: 05/29/98 **Analysis Date..:** 06/01/98
Prep Batch #...: 8149189 **Analysis Time..:** 21:55
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**79**	**(63 - 110)**			**SW846 8270B**
	73	**(63 - 110)**	**7.9**	**(0-20)**	**SW846 8270B**
4-Chloro-3-methylphenol	**81**	**(53 - 112)**			**SW846 8270B**
	76	**(53 - 112)**	**6.0**	**(0-20)**	**SW846 8270B**
2-Chlorophenol	**86**	**(59 - 105)**			**SW846 8270B**
	80	**(59 - 105)**	**6.5**	**(0-22)**	**SW846 8270B**
1,4-Dichlorobenzene	**74**	**(55 - 108)**			**SW846 8270B**
	69	**(55 - 108)**	**7.2**	**(0-27)**	**SW846 8270B**
2,4-Dinitrotoluene	**87**	**(69 - 124)**			**SW846 8270B**
	82	**(69 - 124)**	**5.7**	**(0-21)**	**SW846 8270B**
4-Nitrophenol	**68**	**(22 - 133)**			**SW846 8270B**
	63	**(22 - 133)**	**6.9**	**(0-32)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**79**	**(52 - 125)**			**SW846 8270B**
	78	**(52 - 125)**	**0.93**	**(0-20)**	**SW846 8270B**
Pentachlorophenol	**81**	**(49 - 112)**			**SW846 8270B**
	77	**(49 - 112)**	**5.2**	**(0-30)**	**SW846 8270B**
Phenol	**78**	**(46 - 107)**			**SW846 8270B**
	75	**(46 - 107)**	**4.4**	**(0-20)**	**SW846 8270B**
Pyrene	**81**	**(52 - 140)**			**SW846 8270B**
	80	**(52 - 140)**	**1.1**	**(0-20)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**75**	**(55 - 112)**			**SW846 8270B**
	70	**(55 - 112)**	**8.1**	**(0-27)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(54 - 110)
	67	(54 - 110)
Phenol-d5	90	(49 - 131)
	82	(49 - 131)
Nitrobenzene-d5	78	(54 - 116)
	77	(54 - 116)
2-Fluorobiphenyl	72	(49 - 102)
	63	(49 - 102)
2,4,6-Tribromophenol	80	(46 - 127)
	74	(46 - 127)
Terphenyl-d14	83	(57 - 117)
	80	(57 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D8E270125 **Work Order #...:** CHJCL102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8E290000-189 CHJCL103-LCSD
Prep Date.....: 05/29/98 **Analysis Date..:** 06/01/98
Prep Batch #...: 8149189 **Analysis Time..:** 21:55
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	**100**	**78.9**	**ug/L**	**79**		**SW846 8270B**
	100	**72.9**	**ug/L**	**73**	**7.9**	**SW846 8270B**
4-Chloro-3-methylphenol	**150**	**121**	**ug/L**	**81**		**SW846 8270B**
	150	**114**	**ug/L**	**76**	**6.0**	**SW846 8270B**
2-Chlorophenol	**150**	**128**	**ug/L**	**86**		**SW846 8270B**
	150	**120**	**ug/L**	**80**	**6.5**	**SW846 8270B**
1,4-Dichlorobenzene	**100**	**74.3**	**ug/L**	**74**		**SW846 8270B**
	100	**69.1**	**ug/L**	**69**	**7.2**	**SW846 8270B**
2,4-Dinitrotoluene	**100**	**86.8**	**ug/L**	**87**		**SW846 8270B**
	100	**81.9**	**ug/L**	**82**	**5.7**	**SW846 8270B**
4-Nitrophenol	**150**	**102**	**ug/L**	**68**		**SW846 8270B**
	150	**94.8**	**ug/L**	**63**	**6.9**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**100**	**78.5**	**ug/L**	**79**		**SW846 8270B**
	100	**77.8**	**ug/L**	**78**	**0.93**	**SW846 8270B**
Pentachlorophenol	**150**	**122**	**ug/L**	**81**		**SW846 8270B**
	150	**116**	**ug/L**	**77**	**5.2**	**SW846 8270B**
Phenol	**150**	**117**	**ug/L**	**78**		**SW846 8270B**
	150	**112**	**ug/L**	**75**	**4.4**	**SW846 8270B**
Pyrene	**100**	**81.4**	**ug/L**	**81**		**SW846 8270B**
	100	**80.5**	**ug/L**	**80**	**1.1**	**SW846 8270B**
1,2,4-Trichlorobenzene	**100**	**75.4**	**ug/L**	**75**		**SW846 8270B**
	100	**69.5**	**ug/L**	**70**	**8.1**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(54 - 110)
	67	(54 - 110)
Phenol-d5	90	(49 - 131)
	82	(49 - 131)
Nitrobenzene-d5	78	(54 - 116)
	77	(54 - 116)
2-Fluorobiphenyl	72	(49 - 102)
	63	(49 - 102)
2,4,6-Tribromophenol	80	(46 - 127)
	74	(46 - 127)
Terphenyl-d14	83	(57 - 117)
	80	(57 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D8E270125 **Work Order #...:** CHJCL101 **Matrix.....:** WATER
MB Lot-Sample #: D8E290000-189

Prep Date.....: 05/29/98 **Analysis Time..:** 21:25
Analysis Date..: 06/01/98 **Prep Batch #...:** 8149189
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270B
Acenaphthylene	ND	10	ug/L	SW846 8270B
Anthracene	ND	10	ug/L	SW846 8270B
Benzo(a)anthracene	ND	10	ug/L	SW846 8270B
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270B
Benzo(a)pyrene	ND	10	ug/L	SW846 8270B
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270B
bis(2-Chloroethyl) ether	ND	10	ug/L	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270B
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270B
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270B
Carbazole	ND	10	ug/L	SW846 8270B
4-Chloroaniline	ND	10	ug/L	SW846 8270B
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270B
2-Chloronaphthalene	ND	10	ug/L	SW846 8270B
2-Chlorophenol	ND	10	ug/L	SW846 8270B
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270B
Chrysene	ND	10	ug/L	SW846 8270B
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270B
bis(2-Chloroisopropyl) ether	ND	10	ug/L	SW846 8270B
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270B
Dibenzofuran	ND	10	ug/L	SW846 8270B
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270B
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270B
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270B
Diethyl phthalate	ND	10	ug/L	SW846 8270B
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270B
Dimethyl phthalate	ND	10	ug/L	SW846 8270B
1,3-Dinitrobenzene	ND	10	ug/L	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270B
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D8E270125 **Work Order #...:** CHJCL101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270B
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270B
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270B
Fluoranthene	ND	10	ug/L	SW846 8270B
Fluorene	ND	10	ug/L	SW846 8270B
Hexachlorobenzene	ND	10	ug/L	SW846 8270B
Hexachlorobutadiene	ND	10	ug/L	SW846 8270B
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270B
Hexachloroethane	ND	10	ug/L	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270B
Isophorone	ND	10	ug/L	SW846 8270B
2-Methylnaphthalene	ND	10	ug/L	SW846 8270B
2-Methylphenol	ND	10	ug/L	SW846 8270B
4-Methylphenol	ND	10	ug/L	SW846 8270B
Naphthalene	ND	10	ug/L	SW846 8270B
2-Nitroaniline	ND	50	ug/L	SW846 8270B
3-Nitroaniline	ND	50	ug/L	SW846 8270B
4-Nitroaniline	ND	50	ug/L	SW846 8270B
Nitrobenzene	ND	10	ug/L	SW846 8270B
2-Nitrophenol	ND	10	ug/L	SW846 8270B
4-Nitrophenol	ND	50	ug/L	SW846 8270B
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270B
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270B
Pentachlorophenol	ND	50	ug/L	SW846 8270B
Phenacetin	ND	20	ug/L	SW846 8270B
Phenanthrene	ND	10	ug/L	SW846 8270B
Phenol	ND	10	ug/L	SW846 8270B
Pyrene	ND	10	ug/L	SW846 8270B
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270B
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270B
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	75	(54 - 110)
Phenol-d5	83	(49 - 131)
Nitrobenzene-d5	77	(54 - 116)
2-Fluorobiphenyl	63	(49 - 102)
2,4,6-Tribromophenol	72	(46 - 127)
Terphenyl-d14	88	(57 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Lot-Sample #...: D8E270125 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Mercury	96	(77 - 117)			SW846 7470A	06/16-06/17/98	8166343
	96	(77 - 117)	0.39	(0-10)	SW846 7470A	06/16-06/17/98	8166343
		Dilution Factor: 1					
Silver	100	(90 - 110)			SW846 6010B	07/01/98	8183284
	101	(90 - 110)	0.51	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Aluminum	98	(90 - 110)			SW846 6010B	07/01/98	8183284
	99	(90 - 110)	0.97	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Barium	100	(90 - 110)			SW846 6010B	07/01/98	8183284
	101	(90 - 110)	0.84	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Beryllium	101	(90 - 110)			SW846 6010B	07/01/98	8183284
	102	(90 - 110)	0.93	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Calcium	100	(90 - 110)			SW846 6010B	07/01/98	8183284
	101	(90 - 110)	0.75	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Cobalt	101	(90 - 110)			SW846 6010B	07/01/98	8183284
	102	(90 - 110)	0.81	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Chromium	101	(90 - 110)			SW846 6010B	07/01/98	8183284
	102	(90 - 110)	0.64	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Copper	100	(90 - 110)			SW846 6010B	07/01/98	8183284
	100	(90 - 110)	0.66	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Iron	101	(90 - 110)			SW846 6010B	07/01/98	8183284
	101	(90 - 110)	0.59	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Lot-Sample #...: D8E270125 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Potassium	100	(90 - 110)			SW846 6010B	07/01/98	8183284
	100	(90 - 110)	0.79	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Magnesium	99	(90 - 110)			SW846 6010B	07/01/98	8183284
	100	(90 - 110)	0.76	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Manganese	100	(90 - 110)			SW846 6010B	07/01/98	8183284
	101	(90 - 110)	0.69	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Sodium	100	(90 - 110)			SW846 6010B	07/01/98	8183284
	101	(90 - 110)	1.3	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Nickel	100	(90 - 110)			SW846 6010B	07/01/98	8183284
	101	(90 - 110)	0.54	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Vanadium	100	(90 - 110)			SW846 6010B	07/01/98	8183284
	100	(90 - 110)	0.40	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Zinc	99	(90 - 110)			SW846 6010B	07/01/98	8183284
	99	(90 - 110)	0.37	(0-10)	SW846 6010B	07/01/98	8183284
		Dilution Factor: 1					
Arsenic	99	(90 - 110)			SW846 6010B	07/08/98	8189292
	99	(90 - 110)	0.19	(0-10)	SW846 6010B	07/08/98	8189292
		Dilution Factor: 1					
Cadmium	100	(90 - 110)			SW846 6010B	07/08/98	8189292
	100	(90 - 110)	0.25	(0-10)	SW846 6010B	07/08/98	8189292
		Dilution Factor: 1					
Lead	100	(90 - 110)			SW846 6010B	07/08/98	8189292
	101	(90 - 110)	1.1	(0-10)	SW846 6010B	07/08/98	8189292
		Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Lot-Sample #...: D8E270125 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Antimony	97	(90 - 110)			SW846 6010B	07/08/98	8189292
	97	(90 - 110)	0.65	(0-10)	SW846 6010B	07/08/98	8189292
		Dilution Factor: 1					
Selenium	99	(90 - 110)			SW846 6010B	07/08/98	8189292
	99	(90 - 110)	0.51	(0-10)	SW846 6010B	07/08/98	8189292
		Dilution Factor: 1					
Thallium	100	(90 - 110)			SW846 6010B	07/08/98	8189292
	98	(90 - 110)	2.0	(0-10)	SW846 6010B	07/08/98	8189292
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Lot-Sample #...: D8E270125 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Mercury	5.00	4.80	ug/L	96		SW846 7470A	06/16-06/17/98	8166343
	5.00	4.82	ug/L	96	0.39	SW846 7470A	06/16-06/17/98	8166343
			Dilution Factor: 1					
Silver	500	502	ug/L	100		SW846 6010B	07/01/98	8183284
	500	505	ug/L	101	0.51	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Aluminum	5000	4920	ug/L	98		SW846 6010B	07/01/98	8183284
	5000	4960	ug/L	99	0.97	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Barium	500	499	ug/L	100		SW846 6010B	07/01/98	8183284
	500	504	ug/L	101	0.84	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Beryllium	500	506	ug/L	101		SW846 6010B	07/01/98	8183284
	500	511	ug/L	102	0.93	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Calcium	50000	50000	ug/L	100		SW846 6010B	07/01/98	8183284
	50000	50400	ug/L	101	0.75	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Cobalt	500	504	ug/L	101		SW846 6010B	07/01/98	8183284
	500	508	ug/L	102	0.81	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Chromium	500	505	ug/L	101		SW846 6010B	07/01/98	8183284
	500	508	ug/L	102	0.64	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Copper	500	498	ug/L	100		SW846 6010B	07/01/98	8183284
	500	501	ug/L	100	0.66	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Iron	5000	5030	ug/L	101		SW846 6010B	07/01/98	8183284
	5000	5060	ug/L	101	0.59	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Lot-Sample #...: D8E270125 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Potassium	50000	49800	ug/L	100		SW846 6010B	07/01/98	8183284
	50000	50200	ug/L	100	0.79	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Magnesium	50000	49700	ug/L	99		SW846 6010B	07/01/98	8183284
	50000	50100	ug/L	100	0.76	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Manganese	500	502	ug/L	100		SW846 6010B	07/01/98	8183284
	500	505	ug/L	101	0.69	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Sodium	50000	49800	ug/L	100		SW846 6010B	07/01/98	8183284
	50000	50400	ug/L	101	1.3	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Nickel	500	501	ug/L	100		SW846 6010B	07/01/98	8183284
	500	504	ug/L	101	0.54	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Vanadium	500	498	ug/L	100		SW846 6010B	07/01/98	8183284
	500	501	ug/L	100	0.40	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Zinc	500	495	ug/L	99		SW846 6010B	07/01/98	8183284
	500	497	ug/L	99	0.37	SW846 6010B	07/01/98	8183284
			Dilution Factor: 1					
Arsenic	500	497	ug/L	99		SW846 6010B	07/08/98	8189292
	500	496	ug/L	99	0.19	SW846 6010B	07/08/98	8189292
			Dilution Factor: 1					
Cadmium	500	501	ug/L	100		SW846 6010B	07/08/98	8189292
	500	502	ug/L	100	0.25	SW846 6010B	07/08/98	8189292
			Dilution Factor: 1					
Lead	500	501	ug/L	100		SW846 6010B	07/08/98	8189292
	500	506	ug/L	101	1.1	SW846 6010B	07/08/98	8189292
			Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Lot-Sample #...: D8E270125 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Antimony	500	486	ug/L	97		SW846 6010B	07/08/98	8189292
	500	483	ug/L	97	0.65	SW846 6010B	07/08/98	8189292
			Dilution Factor: 1					
Selenium	500	495	ug/L	99		SW846 6010B	07/08/98	8189292
	500	497	ug/L	99	0.51	SW846 6010B	07/08/98	8189292
			Dilution Factor: 1					
Thallium	500	501	ug/L	100		SW846 6010B	07/08/98	8189292
	500	491	ug/L	98	2.0	SW846 6010B	07/08/98	8189292
			Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D8G020000-284 **Prep Batch #...:** 8183284						
Silver	ND	10.0	ug/L	SW846 6010B	07/01/98	CJHV810H
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Aluminum	ND	100	ug/L	SW846 6010B	07/01/98	CJHV8101
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Barium	ND	10.0	ug/L	SW846 6010B	07/01/98	CJHV8102
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Beryllium	ND	2.0	ug/L	SW846 6010B	07/01/98	CJHV8103
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Calcium	ND	200	ug/L	SW846 6010B	07/01/98	CJHV8104
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Cobalt	ND	10.0	ug/L	SW846 6010B	07/01/98	CJHV8105
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Chromium	ND	10.0	ug/L	SW846 6010B	07/01/98	CJHV8106
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Copper	ND	20.0	ug/L	SW846 6010B	07/01/98	CJHV8107
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Iron	ND	100	ug/L	SW846 6010B	07/01/98	CJHV8108
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Potassium	ND	5000	ug/L	SW846 6010B	07/01/98	CJHV8109
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Magnesium	ND	200	ug/L	SW846 6010B	07/01/98	CJHV810A
		Dilution Factor: 1				
		Analysis Time..: 11:08				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	ND	10.0	ug/L	SW846 6010B	07/01/98	CJHV810C
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Sodium	ND	5000	ug/L	SW846 6010B	07/01/98	CJHV810D
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Nickel	ND	40.0	ug/L	SW846 6010B	07/01/98	CJHV810E
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Vanadium	ND	10.0	ug/L	SW846 6010B	07/01/98	CJHV810F
		Dilution Factor: 1				
		Analysis Time..: 11:08				
Zinc	ND	20.0	ug/L	SW846 6010B	07/01/98	CJHV810G
		Dilution Factor: 1				
		Analysis Time..: 11:08				

MB Lot-Sample #: D8G080000-292 **Prep Batch #...:** 8189292

Arsenic	ND	10.0	ug/L	SW846 6010B	07/08/98	CJLTM101
		Dilution Factor: 1				
		Analysis Time..: 14:06				
Cadmium	ND	5.0	ug/L	SW846 6010B	07/08/98	CJLTM102
		Dilution Factor: 1				
		Analysis Time..: 14:06				
Lead	ND	3.0	ug/L	SW846 6010B	07/08/98	CJLTM103
		Dilution Factor: 1				
		Analysis Time..: 14:06				
Antimony	ND	10.0	ug/L	SW846 6010B	07/08/98	CJLTM104
		Dilution Factor: 1				
		Analysis Time..: 14:06				
Selenium	ND	5.0	ug/L	SW846 6010B	07/08/98	CJLTM105
		Dilution Factor: 1				
		Analysis Time..: 14:06				
Thallium	ND	10.0	ug/L	SW846 6010B	07/08/98	CJLTM106
		Dilution Factor: 1				
		Analysis Time..: 14:06				

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Quanterra

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D8F150000-343 **Prep Batch #...:** 8166343						
Mercury	ND	0.20	ug/L	SW846 7470A	06/16-06/17/98	CJ28J101

Dilution Factor: 1
Analysis Time..: 15:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER
Date Sampled...: 05/23/98 11:30 **Date Received..:** 05/27/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E270125-001 **Prep Batch #...:** 8183284							
Silver	44 N,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG0111U
	44 N,D,Q	(90 - 110)	0.99	(0-10)	SW846 6010B	07/01/98	CHG0111V
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Aluminum	78 N,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG0110U
	79 N,D,Q	(90 - 110)	1.6	(0-10)	SW846 6010B	07/01/98	CHG0110V
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Barium	86 N,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG0110W
	88 N,D,Q	(90 - 110)	1.9	(0-10)	SW846 6010B	07/01/98	CHG0110X
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Beryllium	89 N,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG01110
	91 D,Q	(90 - 110)	2.4	(0-10)	SW846 6010B	07/01/98	CHG01111
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Calcium	NC,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG01112
	NC,D,Q	(90 - 110)		(0-10)	SW846 6010B	07/01/98	CHG01113
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Cobalt	95 D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG01114
	96 D,Q	(90 - 110)	0.98	(0-10)	SW846 6010B	07/01/98	CHG01115
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Chromium	79 N,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG01116
	80 N,D,Q	(90 - 110)	1.3	(0-10)	SW846 6010B	07/01/98	CHG01117
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Copper	84 N,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG01118
	87 N,D,Q	(90 - 110)	2.9	(0-10)	SW846 6010B	07/01/98	CHG01119
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Iron	87 N,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG0111A
	88 N,D,Q	(90 - 110)	1.3	(0-10)	SW846 6010B	07/01/98	CHG0111C
		Dilution Factor: 5					
		Analysis Time..: 12:51					

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Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER
Date Sampled...: 05/23/98 11:30 **Date Received..:** 05/27/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	89 N,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG0111D
	91 D,Q	(90 - 110)	1.7	(0-10)	SW846 6010B	07/01/98	CHG0111E
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Magnesium	NC,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG0111F
	NC,D,Q	(90 - 110)		(0-10)	SW846 6010B	07/01/98	CHG0111G
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Manganese	89 N,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG0111H
	89 N,D,Q	(90 - 110)	0.03	(0-10)	SW846 6010B	07/01/98	CHG0111J
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Sodium	NC,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG0111K
	NC,D,Q	(90 - 110)		(0-10)	SW846 6010B	07/01/98	CHG0111L
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Nickel	82 N,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG0111M
	86 N,D,Q	(90 - 110)	5.1	(0-10)	SW846 6010B	07/01/98	CHG0111N
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Vanadium	89 N,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG0111P
	90 D,Q	(90 - 110)	1.1	(0-10)	SW846 6010B	07/01/98	CHG0111Q
		Dilution Factor: 5					
		Analysis Time..: 12:51					
Zinc	82 N,D,Q	(90 - 110)			SW846 6010B	07/01/98	CHG0111R
	81 N,D,Q	(90 - 110)	0.82	(0-10)	SW846 6010B	07/01/98	CHG0111T
		Dilution Factor: 5					
		Analysis Time..: 12:51					

MS Lot-Sample #: D8E270125-001 **Prep Batch #...:** 8189292

Arsenic	93	(90 - 110)			SW846 6010B	07/08/98	CHG0111W
	91	(90 - 110)	2.7	(0-10)	SW846 6010B	07/08/98	CHG0111X
		Dilution Factor: 1					
		Analysis Time..: 14:19					
Cadmium	92	(90 - 110)			SW846 6010B	07/08/98	CHG01120
	88 N	(90 - 110)	5.2	(0-10)	SW846 6010B	07/08/98	CHG01121
		Dilution Factor: 1					
		Analysis Time..: 14:19					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER
Date Sampled...: 05/23/98 11:30 **Date Received..:** 05/27/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	82 N	(90 - 110)			SW846 6010B	07/08/98	CHG01122
	82 N	(90 - 110)	0.03	(0-10)	SW846 6010B	07/08/98	CHG01123
		Dilution Factor: 1					
		Analysis Time..: 14:19					
Antimony	93	(90 - 110)			SW846 6010B	07/08/98	CHG01124
	93	(90 - 110)	0.24	(0-10)	SW846 6010B	07/08/98	CHG01125
		Dilution Factor: 1					
		Analysis Time..: 14:19					
Selenium	98	(90 - 110)			SW846 6010B	07/08/98	CHG01126
	96	(90 - 110)	2.6	(0-10)	SW846 6010B	07/08/98	CHG01127
		Dilution Factor: 1					
		Analysis Time..: 14:19					
Thallium	79 N	(90 - 110)			SW846 6010B	07/08/98	CHG01128
	77 N	(90 - 110)	2.6	(0-10)	SW846 6010B	07/08/98	CHG01129
		Dilution Factor: 1					
		Analysis Time..: 14:19					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

NC The recovery and/or RPD were not calculated.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER
Date Sampled...: 05/23/98 11:30 **Date Received..:** 05/27/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E270125-001 **Prep Batch #...:** 8183284									
Silver									
	ND	50.0	22.2	ug/L	44		SW846 6010B	07/01/98	CHG0111U
				Qualifiers: N,D,Q					
	ND	50.0	22.0	ug/L	44	0.99	SW846 6010B	07/01/98	CHG0111V
				Qualifiers: N,D,Q					
				Dilution Factor: 5					
				Analysis Time..: 12:51					
Aluminum									
	ND	2000	1750	ug/L	78		SW846 6010B	07/01/98	CHG0110U
				Qualifiers: N,D,Q					
	ND	2000	1780	ug/L	79	1.6	SW846 6010B	07/01/98	CHG0110V
				Qualifiers: N,D,Q					
				Dilution Factor: 5					
				Analysis Time..: 12:51					
Barium									
	ND	2000	1750	ug/L	86		SW846 6010B	07/01/98	CHG0110W
				Qualifiers: N,D,Q					
	ND	2000	1780	ug/L	88	1.9	SW846 6010B	07/01/98	CHG0110X
				Qualifiers: N,D,Q					
				Dilution Factor: 5					
				Analysis Time..: 12:51					
Beryllium									
	ND	50.0	44.6	ug/L	89		SW846 6010B	07/01/98	CHG01110
				Qualifiers: N,D,Q					
	ND	50.0	45.7 D,Q	ug/L	91	2.4	SW846 6010B	07/01/98	CHG01111
				Dilution Factor: 5					
				Analysis Time..: 12:51					
Calcium									
	778000	50000	827000	ug/L			SW846 6010B	07/01/98	CHG01112
				Qualifiers: NC,D,Q					
	778000	50000	817000	ug/L			SW846 6010B	07/01/98	CHG01113
				Qualifiers: NC,D,Q					
				Dilution Factor: 5					
				Analysis Time..: 12:51					
Cobalt									
	ND	500	491 D,Q	ug/L	95		SW846 6010B	07/01/98	CHG01114
	ND	500	496 D,Q	ug/L	96	0.98	SW846 6010B	07/01/98	CHG01115
				Dilution Factor: 5					
				Analysis Time..: 12:51					

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER
Date Sampled...: 05/23/98 11:30 **Date Received..:** 05/27/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	ND	200	157 N,D,Q	ug/L	79		SW846 6010B	07/01/98	CHG01116
	ND	200	160 N,D,Q	ug/L	80	1.3	SW846 6010B	07/01/98	CHG01117
			Dilution Factor: 5						
			Analysis Time..: 12:51						
Copper									
	21.6	250	232 N,D,Q	ug/L	84		SW846 6010B	07/01/98	CHG01118
	21.6	250	238 N,D,Q	ug/L	87	2.9	SW846 6010B	07/01/98	CHG01119
			Dilution Factor: 5						
			Analysis Time..: 12:51						
Iron									
	ND	1000	867 N,D,Q	ug/L	87		SW846 6010B	07/01/98	CHG0111A
	ND	1000	879 N,D,Q	ug/L	88	1.3	SW846 6010B	07/01/98	CHG0111C
			Dilution Factor: 5						
			Analysis Time..: 12:51						
Potassium									
	24700	50000	69200	ug/L	89		SW846 6010B	07/01/98	CHG0111D
			Qualifiers: N,D,Q						
	24700	50000	70300 D,Q	ug/L	91	1.7	SW846 6010B	07/01/98	CHG0111E
			Dilution Factor: 5						
			Analysis Time..: 12:51						
Magnesium									
	822000	50000	856000	ug/L			SW846 6010B	07/01/98	CHG0111F
			Qualifiers: NC,D,Q						
	822000	50000	853000	ug/L			SW846 6010B	07/01/98	CHG0111G
			Qualifiers: NC,D,Q						
			Dilution Factor: 5						
			Analysis Time..: 12:51						
Manganese									
	308	500	750 N,D,Q	ug/L	89		SW846 6010B	07/01/98	CHG0111H
	308	500	750 N,D,Q	ug/L	89	0.03	SW846 6010B	07/01/98	CHG0111J
			Dilution Factor: 5						
			Analysis Time..: 12:51						
Sodium									
	393000	50000	3900000	ug/L			SW846 6010B	07/01/98	CHG0111K
			Qualifiers: NC,D,Q						
	393000	50000	3890000	ug/L			SW846 6010B	07/01/98	CHG0111L
			Qualifiers: NC,D,Q						
			Dilution Factor: 5						
			Analysis Time..: 12:51						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER
Date Sampled...: 05/23/98 11:30 **Date Received..:** 05/27/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	ND	500	410 N,D,Q	ug/L	82		SW846 6010B	07/01/98	CHG0111M
	ND	500	432 N,D,Q	ug/L	86	5.1	SW846 6010B	07/01/98	CHG0111N
			Dilution Factor: 5						
			Analysis Time..: 12:51						
Vanadium									
	ND	500	453 N,D,Q	ug/L	89		SW846 6010B	07/01/98	CHG0111P
	ND	500	458 D,Q	ug/L	90	1.1	SW846 6010B	07/01/98	CHG0111Q
			Dilution Factor: 5						
			Analysis Time..: 12:51						
Zinc									
	312	500	724 N,D,Q	ug/L	82		SW846 6010B	07/01/98	CHG0111R
	312	500	718 N,D,Q	ug/L	81	0.82	SW846 6010B	07/01/98	CHG0111T
			Dilution Factor: 5						
			Analysis Time..: 12:51						

MS Lot-Sample #: D8E270125-001 **Prep Batch #...:** 8189292

Arsenic									
	ND	2000	1870	ug/L	93		SW846 6010B	07/08/98	CHG0111W
	ND	2000	1820	ug/L	91	2.7	SW846 6010B	07/08/98	CHG0111X
			Dilution Factor: 1						
			Analysis Time..: 14:19						
Cadmium									
	ND	50.0	46.2	ug/L	92		SW846 6010B	07/08/98	CHG01120
	ND	50.0	43.8 N	ug/L	88	5.2	SW846 6010B	07/08/98	CHG01121
			Dilution Factor: 1						
			Analysis Time..: 14:19						
Lead									
	ND	500	409 N	ug/L	82		SW846 6010B	07/08/98	CHG01122
	ND	500	409 N	ug/L	82	0.03	SW846 6010B	07/08/98	CHG01123
			Dilution Factor: 1						
			Analysis Time..: 14:19						
Antimony									
	19.9	500	485	ug/L	93		SW846 6010B	07/08/98	CHG01124
	19.9	500	486	ug/L	93	0.24	SW846 6010B	07/08/98	CHG01125
			Dilution Factor: 1						
			Analysis Time..: 14:19						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER
Date Sampled...: 05/23/98 11:30 **Date Received..:** 05/27/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium										
	24.8	2000	1990		ug/L	98		SW846 6010B	07/08/98	CHG01126
	24.8	2000	1940		ug/L	96	2.6	SW846 6010B	07/08/98	CHG01127
				Dilution Factor: 1						
				Analysis Time..: 14:19						
Thallium										
	ND	2000	1580	N	ug/L	79		SW846 6010B	07/08/98	CHG01128
	ND	2000	1540	N	ug/L	77	2.6	SW846 6010B	07/08/98	CHG01129
				Dilution Factor: 1						
				Analysis Time..: 14:19						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

NC The recovery and/or RPD were not calculated.

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER
Date Sampled...: 05/21/98 14:15 **Date Received..:** 05/22/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E220222-001 **Prep Batch #...:** 8166343							
Mercury	88	(77 - 117)			SW846 7470A	06/16-06/17/98	CHED210T
	90	(77 - 117)	1.7	(0-10)	SW846 7470A	06/16-06/17/98	CHED210U

Dilution Factor: 1
Analysis Time..: 15:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER
Date Sampled...: 05/21/98 14:15 **Date Received..:** 05/22/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E220222-001 **Prep Batch #...:** 8166343									
Mercury									
	ND	5.00	4.41	ug/L	88		SW846 7470A	06/16-06/17/98	CHED210T
	ND	5.00	4.49	ug/L	90	1.7	SW846 7470A	06/16-06/17/98	CHED210U

Dilution Factor: 1
Analysis Time..: 15:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER
Date Sampled...: 05/27/98 10:45 **Date Received..:** 05/28/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E280166-003 **Prep Batch #...:** 8166343									
Mercury									
	ND	5.00	4.45	ug/L	89		SW846 7470A	06/16-06/17/98	CHHG8152
	ND	5.00	4.54	ug/L	91	1.9	SW846 7470A	06/16-06/17/98	CHHG8153

Dilution Factor: 1
Analysis Time..: 15:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D8E270125 **Matrix.....:** WATER
Date Sampled...: 05/27/98 10:45 **Date Received..:** 05/28/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8E280166-003 **Prep Batch #...:** 8166343							
Mercury	89	(77 - 117)			SW846 7470A	06/16-06/17/98	CHHG8152
	91	(77 - 117)	1.9	(0-10)	SW846 7470A	06/16-06/17/98	CHHG8153

Dilution Factor: 1
Analysis Time..: 15:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Chain of Custody Record

23888

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QUA-4149-1

Client	Project Manager	Date
Fluor Daniel GTI	Chuck Schick	5-23-98
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Location**
2501 Yale Blvd SE, #204	(505)242-3113/(505)242-1103	D8E270/25
City / State / Zip Code	**Site Contact**	
Albuquerque / NM / 87106	Chuck Schick	
Project Number/Name	**Carrier/Waybill Number**	
87220018050 3/Rita's Draw	FedEx 803815390540	
Contract/Purchase Order/Quote Number		

Page _____ of _____

Analysis: VOC's 8260B; SVOC's 8270C; TAL metals 6010/7000; Dissolved Filtered

	Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	VOC's 8260B	SVOC's 8270C	TAL metals 6010/7000	Dissolved Filtered
01	WASTE DRUM	5-23-98	1130	Water			6			X	X	X	

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ Normal ☐ Rush ☐ Other _____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	5/26/98	1500	1. Received By	5/27/98	0900
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra

SAMPLE CHECKLIST

Project #: D8E27 0/25 Date/Time Received: 5/27/98 0900

Company Name & Sampling Site: Flour Daniel

*Cooler #(s): #1

Temperatures: (2.7)

Unpacking & Labeling Check Points:

N/A	Yes	No		Initials
	☑	☐	1. Radiation checked, record if reading > 0.5 mR/hr. (_____mR/hr)	
	☑	☐	2. Cooler seals intact.	
	☑	☐	3. Chain of custody present.	
	☐	☑	4. Bottles broken and/or are leaking, comment if yes.	
			PHOTOGRAPH BROKEN BOTTLES	
	☑	☐	5. Containers labeled, comment if no.	
	☑	☐	6. pH of all samples checked and meet requirements, note exceptions.	
	☑	☐	7. Chain of custody includes "received by" and "relinquished" by signatures, dates, and times.	
	☐	☑	8. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.	
	☑	☐	9. Chain of custody agrees with bottle count, comment if no.	
	☑	☐	10. Chain of custody agrees with labels, comment if no.	
☐	☑	☐	11. VOA samples filled completely, comment if no.	
☐	☑	☐	12. VOA bottles preserved, check for labels.	
	☐	☑	13. Did samples require preservation with sodium thiosulfate?	
☑	☐	☐	14. If yes to #12, did the samples contain residual chlorine?	
☑	☐	☐	15. Sediment present in "D," dissolved, bottles.	
	☐	☑	16. Are analyses with short holding times requested?	
☑	☐	☐	17. Is extra sample volume provided for MS, MSD or matrix duplicates?	
	☐	☑	18. Multiphase samples present? If yes, comment below.	
	☐	☑	19. Any subsampling for volatiles? If yes, list samples.	
			PHOTOGRAPH MULTIPHASE SAMPLES	
	☑	☐	20. Clear picture taken, labeled, and stapled to project folder.	
☑	☐	☐	21. Subout COC signed and sent with samples to bottle prep?	
	☑	☐	22. Was sample labeling double checked?	

Comments: Include action taken to resolve discrepancies/problems. Include a hard copy of e-mail or use extra paper if more space is needed.

Initials: _____

ATTACHMENT E

DAILY QUALITY CONTROL SUMMARY REPORT

1.0 DATA QUALITY CONTROL SUMMARY REPORT

The analytical program for the Ritas Draw preliminary investigation/site assessment (PA/SI) at Holloman AFB consisted of chemical testing of twelve soil samples, three water samples, and one waste drum sample. The testing was performed by Quanterra Environmental Services, Arvada, Colorado. The analytical methods for chemical analysis are taken from the latest revision of USEPA Test Methods for Evaluating Solid Waste, SW-846 Third Edition (USEPA, 1986).

The specific analytical methods used for this program are as follows:

- VOCs - Method 8260A
- SVOCs - Method 8270B
- Explosives - Method 8330
- Metals - Method 6010B
- Mercury - Methods 7470A (water)/ 7471A (soil)

1.1 Data Validation

The data validation procedure used for the Ritas Draw PA/SI is in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 1994a), and Inorganic Data Review (USEPA 1994b). One hundred percent of the analytical data were reviewed for the following criteria:

- Completeness of data deliverables
- Extraction and analysis holding times
- Method blanks
- System monitoring compounds (surrogate recoveries)
- Matrix spike/matrix spike duplicate recovery
- Laboratory control sample recovery
- Overall data assessment

1.2 Data Completeness

All samples were analyzed for the requested parameters per the project chain-of-custody records. A data completeness objective of 100% was achieved.

1.3 Holding Time Evaluation

All samples were extracted or digested and analyzed within the method specific holding time requirements.

1.4 Data Presentation and Evaluation

The types of laboratory QC samples associated with the Ritas Draw PA/SI include method blanks, laboratory control samples, and matrix spike and spike duplicate samples. These QC samples are used to measure the analytical method precision and accuracy. The results of the laboratory QC sample data are summarized below.

1.4.1 Laboratory Method Blank Samples

Laboratory method blank samples were analyzed with each batch of field samples for each analytical method. Method blank detections were evaluated as part of the validation process. No detections were reported in the method blank samples for any of the analytical parameters with the exception of calcium in sample batch D8E230132. No data qualification was required based on the high concentrations of calcium reported in the field samples.

1.4.2 Laboratory Control Samples

Laboratory control samples (LCS) were analyzed with each batch of field samples for each analytical method. LCS spike recoveries reported at concentrations above or below the method specific control limits require examination of those analyses in the associated field samples.

LCS recoveries for VOCs, SVOCs, metals, and explosives were within the method specific control limits. Therefore, analytical procedures are determined to have been in control at the time of analysis.

1.4.3 Matrix Spike Samples

Laboratory matrix spike samples were analyzed at a frequency of 10 percent for each analytical method. Matrix spike sample recoveries were evaluated in conjunction with the LCS sample recoveries to determine the need for qualification of analytical data.

Two water and two soil matrix spike samples were analyzed for VOCs and SVOCs, and one soil and one water matrix spike sample was analyzed for explosives. The recoveries for all of the matrix spike samples were within the method-specific control limits, indicating no matrix interference associated with the sample analysis.

One soil and two water matrix spike samples were analyzed for dissolved metals and mercury. The recoveries for all of the matrix spike samples were within the method-specific control limits with the exception of silver and antimony recoveries in the water spikes, and the iron recovery in the soil spike. There were no detections for silver or antimony therefore, no qualification of data is required. All detections for iron in soil should be considered estimated values.

1.4.4 Surrogate Recovery

Surrogate compounds were analyzed with each soil and water sample analyzed for VOCs, SVOCs, and explosives . Surrogates are used to determine the adequacy of extraction procedures and the influence of matrix effects. Surrogate recoveries are within the established control limits for all methods.

1.4.5 Field Sample Duplicate Comparison

One soil and one water field duplicate sample were collected and analyzed for the PA/SI. Analytical results were examined to determine the relative percent difference (RPD) between the field sample and the duplicate sample. RPD calculations measure the field sampling and analytical method precision. The RPD for the water field duplicate sample is within the 25 percent criteria. The RPD for the soil field duplicate sample is within the 30 percent criteria with the exception of arsenic at 63 percent RPD, and sample concentrations of 17.4 mg/kg and 9.1 mg/kg.

Any exceedance of specified RPD limits may indicate sample heterogeneity or matrix interference. Sample heterogeneity effects can cause the analytical results to vary depending on which sample portion is analyzed. Soil sample matrices can also cause interference with the extraction or digestion of the compounds of interest.

1.5 Data Usability

Review of the QC data associated with the field sample data indicates project measurement data are reliable and fulfill project data quality objectives. Precision and accuracy data point to no potential limitations within the analytical data. A data completeness objective of 100 percent has been achieved for the Ritas Draw PA/SI at Holloman AFB. Precision and accuracy data are acceptable, and valid conclusions may be drawn from the field sample data.

ATTACHMENT F

SURVEY DATA

AOC- Ritas Draw Soil Boring Locations
(New Mexico State Plane Coordinates, NAD 83)

	Easting	Northing
DP01	1685397	689840
DP02	1685229	689891
DP03	1685303	690078
DP04	1685370	690066

Note: DP=RITA