WSMR 02

DEPARTMENT OF THE ARMY
U.S. ARMY WHITE SANDS MISSILE RANGE
100 HEADQUARTERS AVENUE
WHITE SANDS MISSILE RANGE, NEW MEXICO 88002-5000

March 13, 2002

REPLY TO
ATTENTION OF:
Environment and Safety Directorate

Ms. Cheryl Frischkorn
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

SUBJECT: Submission of the Fall 2001 Groundwater Monitoring Report for the High Energy Laser Systems Test Facility Diesel Spill Site (Solid Waste Management Unit (SWMU) 142)

Dear Ms. Frischkorn:

White Sands Missile Range submits the subject report as required by our permit. Required data and supporting documentation are included in the attachment:

Report of the Fall 2001 Groundwater Sampling Event at the High Energy Laser Systems Test Facility (HELSTF) Diesel Spill Site

A total of eleven wells are used to monitor this site. Since inception and due primarily to the isolated nature of this geoligic area, which forms a closed basin with no natural outflow, high levels of many naturally occuring contaminents and minerals have been detected. These include boron, chromium (other than that associated with the spill at SWMU), molybdenum, selenium, vanadium, sulfate, chloride, flouride, and sodium. Although these are above state Water Quality Control Commission standards, their relatively stable levels in this type of aquifer (with TDS varying between 8,000 and 44,000) indicate that they are naturally occurring, are not subject to remedial action, and are being monitored to provide a long term water chemistry baseline

Sampling results for the primary constituents of concern were not consistent with prior data, which may have been due to an unanticipated and unexpected lengthening in the recharge period for the monitoring wells after the Vacuum Enhanced Diesel Recovery System (VEDRS) was shut down to perform the sampling. Although we do not believe that the data collected was invalid (since it in part demonstrates that the recharge rate is more variable than previously experienced, and it is still within a statistically acceptance range of variance), we will be lengthening the period of time allowed for recharge prior to future sampling events.

Although we have been operating the VEDRS since 1995, we are still recovering small amounts of free diesel fuel from the site, and seven of the monitoring wells exhibited clear signs of diesel in the sample water. Based on sampling results and the continued recovery of diesel fuel from the site, WSMR will continue to monitor this site as part of the overall HELSTF groundwater monitoring program.

The following certification is provided as required by our permit:

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

Copies of this correspondence are being furnished to Messrs. James Bearzi and John Kieling, NMED HWB; Mr. James Harris, Region VI EPA; Ms. Nancy Kosko, Developmental Test Command; and to the MEVATEC Corporation.

Should you have any questions regarding this proposal, please contact Mr. Gene Forsythe, at (505) 678-2224.

Sincerely,

Thomas A. Ladd

Thomas A. Ladd
Director, Environment and
Safety Directorate

Enclosures

REPORT DOCUMENTATION PAGE			OMB No. 0704-0188
Public reporting burden for this collection of information estimated to average 1 hour per response, including the time for reviewing instructions. Send comments regarding this burden estimate or any other aspects of this collection information including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget Paperwork Reduction Project (0704-0188), Washington DC 20503			
1. AGENCY USE ONLY (LEAVE BLANK)	2. REPORT DATE February 2002		3. REPORT TYPE AND DATES COVERED Final, Fall 2001
4. TITLE AND SUBTITLE Report of the Fall 2001 Groundwater Sampling Event at the High Energy Laser Systems Test Facility (HELSTF) Diesel Spill Site			5. FUNDING NUMBERS
6. AUTHOR(S) Leonard Habel, Sr. Environmental Engineer			
7. PERFORMING ORGANIZATION NAMES(S) AND ADDRESS(ES) MEVATEC Corporation Box 399 WSMR, NM 88002			8. PERFORMING ORGANIZATION REPORT NUMBER 800HH/02/001F
9. SPONSORING/MONITORING AGENCY NAMES(S) AND ADDRESS(ES) Department of the Army U.S. Army White Sands Missile Range 100 Headquarters Avenue ATTN: CSTE-DTC-ES-ES-EC (Gene Forsythe) White Sands Missile Range, NM 88002			10. SPONSORING/MONITORING AGENCY REPORT NUMBER WS-ES-EC-0171
11. SUPPLEMENTARY NOTES			
12a. DISTRIBUTION AVAILABILITY STATEMENT on request			12b. DISTRIBUTION CODE D
13. ABSTRACT (MAXIMUM 200 WORDS) Report presents the analytical results of the Fall 2001 groundwater sampling event at the High Energy Laser Systems Test Facility (HELSTF) Diesel Spill Site			
14. SUBJECT TERMS Mark Number: 2001h Groundwater, SWMU 142, monitoring wells, High Energy Laser Systems Test Facility (HELSTF), WSMR-55			15. NUMBER OF PAGES 13 16. PRICE CODE
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT

NSN 7540-01-280-5500 STANDARD FORM 298 (2-89) PREPARED BY ANSI Std 239-8 299-102

REPORT OF THE FALL 2001 GROUNDWATER SAMPLING EVENT AT THE HIGH ENERGY LASER SYSTEMS TEST FACILITY (HELSTF) DIESEL SPILL SITE

Submitted to:

US Army
White Sands Missile Range
Directorate of Environment and Safety
White Sands Missile Range, New Mexico 88002-5048

February 2002

Submitted by:

MEVATEC Corporation
Building 126
White Sands Missile Range, New Mexico 88002

EXECUTIVE SUMMARY

The High Energy Laser Systems Test Facility (HELSTF) Diesel Spill Site is designated WSMR-55 and is located at HELSTF in the vicinity of the Cleaning Facility (Solid Waste Management Unit-142) in Ortero County, New Mexico. The Diesel Spill Site was originally discovered during an investigation at the Cleaning Facility in 1989 when free-phase diesel product was discovered in a soil boring. The product was released from a 30,000-gallon underground storage tank that supplied boilers in the Cleaning Facility basement. Original estimates calculated the release at 100,000-gallons of diesel. The free product is floating on the lower perched water-bearing zone and being recovered by a vacuum enhanced diesel recovery system (VEDRS). The VEDRS has been in operation since 1995 and recovered approximately 7,400-gallons of the free product between 1995 and 1999. Continued recovery has diminished as the amount of available product has decreased.

The HELSTF Diesel Spill Site has been the subject of semi-annual groundwater monitoring, since 1999, to evaluate the concentration of contaminants in the groundwater. Samples are collected from eleven on-site monitoring wells and analyzed for a suite of analytes that include: water quality parameters, dissolved ions, nutrients, total metals, dissolved metals, dissolved salts, volatile organic compounds, semi-volatile organic compounds, explosive residues and petroleum hydrocarbons. Before samples are collected, the eleven on-site wells are purged and monitored for temperature, pH, conductivity and appearance. All data collected during sampling activities is recorded in a bound field logbook.

This report represents the Fall 2001 sampling event. Based on this data, the area of contamination resulting from the diesel spill remains loosely defined by the existing monitor wells. The contaminants of concern, which exceed the New Mexico Water Quality Control Commission (NMWQCC) standards for groundwater, include nitrate, nitrite, cobalt, iron, manganese, nickel, selenium, vanadium, benzene, xylene, 1,1-dichloroethane, naphthalene, fluorene, phenanthrene and anthracene.

TABLE OF CONTENTS

Section **Page**

EXECUTIVE SUMMARY ii

LIST OF ABBREVIATIONS, ACRONYMS, AND SYMBOLS iv

1.0 INTRODUCTION 1
- 1.1 Site Description 2
- 1.2 Hydrogeology 3

2.0 SCOPE OF SERVICES 4

3.0 REGULATORY CRITERIA 6

4.0 GROUNDWATER MONITORING RESULTS 6

5.0 GROUNDWATER CHEMICAL ANALYTICAL DATA 9

6.0 SUMMARY 12

REFERENCES 13

List of Figures

Figure 1-1. Site Location Map. 1
Figure 1-2. Site Diagram. 2
Figure 1-3. Site Topography. 3
Figure 4-1. Groundwater Elevations and Flow Direction 8

List of Tables

Table 2-1. HELSTF Diesel Spill Site Analyte List. 5
Table 4-1. Well Location and Construction Data. 6
Table 4-2. Field Water Quality Measurements 7
Table 5-1. Results of HELSTF Diesel Spill Fall 2001 Groundwater Analysis 10

APPENDIX A GRAPHS OF ANALYTICAL RESULT TRENDS

APPENDIX B SAMPLING PROCEDURES

APPENDIX C PURGE AND DECONTAMINATION WATER DISPOSAL

APPENDIX D CHEMICAL ANALYTICAL DATA SPRING 2001 SAMPLING EVENT

LIST OF ABBREVIATIONS, ACRONYMS, AND SYMBOLS

bgs	Below ground surface
DRO	Diesel Range Organics
DSERTS	Defense Site Environmental Record Tracking System
EPA	Environmental Protection Agency
FID	Flame Ionization Detector
ft	Feet
GC	Gas Chromatography
GRO	Gasoline Range Organics
HA	Health Advisory
HELSTF	High Energy Laser Systems Test Facility
HPLC	High Performance Liquid Chromatography
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
m	Meter
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
mg/L	milligrams per liter equivalent to parts per million
MS	Mass Spectrometry
MTBE	Methyl-tert-butyl-ether
NAD83	North American Datum, 1983
NAVD88	North American Vertical Datum, 1988
ND	Analyte not detected above reporting limits
NE	No NMWQCC standard is established
NMWQCC	New Mexico Water Quality Control Commission
^{o}C	Degrees Celsius
^{o}F	Degrees Fahrenheit
PVC	Polyvinyl Chloride
QC	quality control
RCRA	Resource Conservation and Recovery Act
s.u.	Standard Units
SM	Standard Methods
SVOC	Semi-volatile Organic Compounds
SWMU	Solid Waste Management Unit
TCA	1,1,1-Trichloroethane
TDS	Total Dissolve Solids
ug/L	micrograms per liter parts per billion
µS/cm	Microsiemens per centimeter
UTM	Universal Transverse Mercator
VEDRS	Vacuum Enhanced Diesel Recovery System
VOC	Volatile Organic Compounds

REPORT OF THE FALL 2001 GROUNDWATER SAMPLING EVENT AT THE HIGH ENERGY LASER SYSTEMS TEST FACILITY (HELSTF) DIESEL SPILL SITE

1.0 INTRODUCTION

The High Energy Laser Systems Test Facility (HELSTF) is located in the south central portion of the White Sands Missile Range as shown on Figure 1-1. The HELSTF Diesel Spill Site is designated Defense Site Environmental Restoration Tracking System (DSERTS-55) and Solid Waste Management Unit (SWMU)-154. The Diesel Spill Site was originally discovered during an investigation at the Cleaning Facility in 1989 when free-phase diesel product was discovered in a soil boring. The product was released from a 30,000-gallon underground storage tank that supplied boilers in the Cleaning Facility basement. Original estimates calculated the release at 100,000-gallons of diesel. The free product was found to be floating on a perched water-bearing zone between 40 and 50 feet below ground level. A vacuum enhanced diesel recovery system (VEDRS) has been recovering free product since 1995. Continued recovery has diminished as the amount of available product decreased.

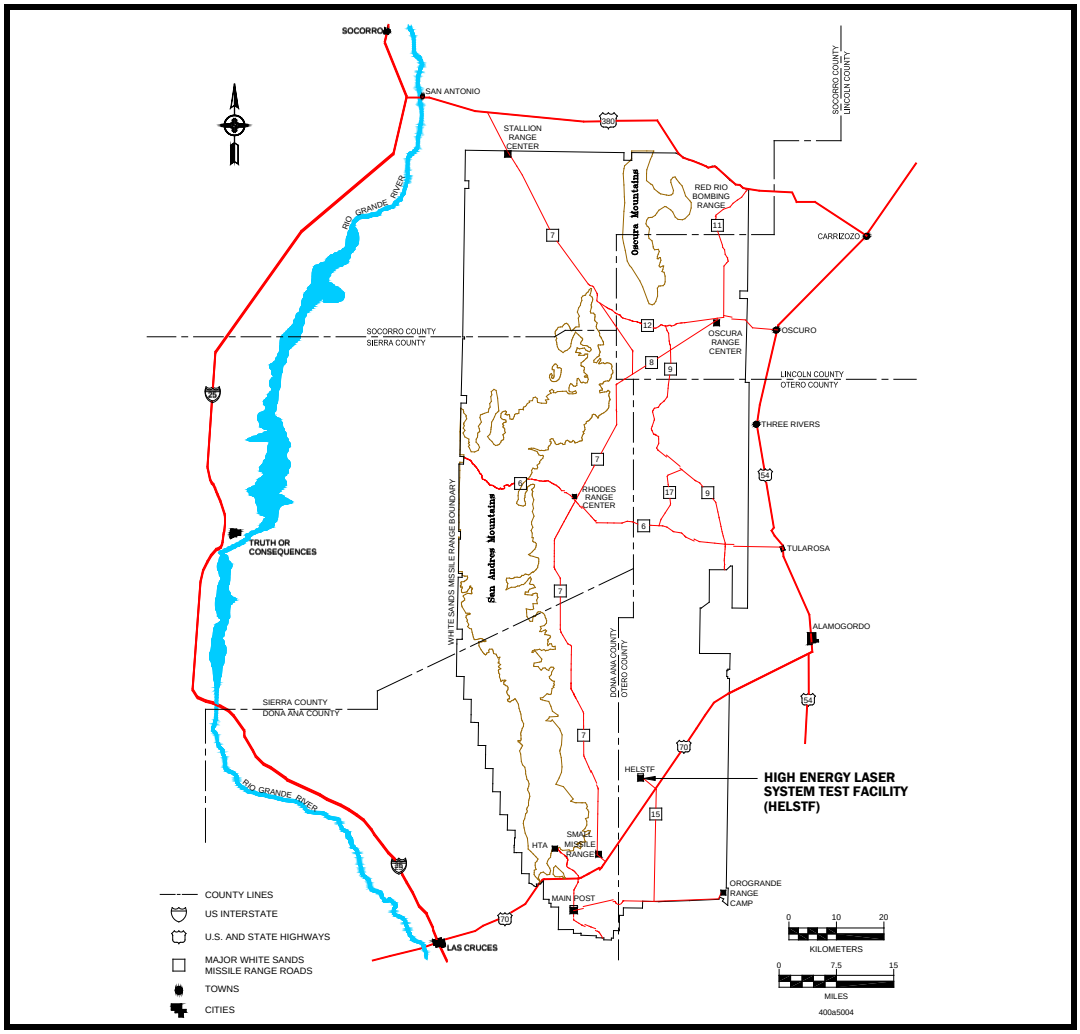


Figure 1-1. Site Location Map.

The HELSTF Diesel Spill Site has been subjected to semi-annual groundwater monitoring since 1999 to determine the concentrations of contaminants in the groundwater. Analytical results of the samples are compared to New Mexico Water Quality Control Commission (NMWQCC) standards.

1.1 Site Description

The HELSTF Diesel Spill Site is located inside HELSTF between the Cleaning Facility and the Chemistry Laboratory. The site is graded and leveled with a well-sorted gravel cover. Eleven on-site monitoring wells (DRW-1, DRW-2, DRW-3, DRW-4, DRW-5, DRW-12, DRW-13, DRW-16, HCF-1, HCF-5 and HCF-7, shown on Figure 1-2) are used to characterize and define the extent of contamination.

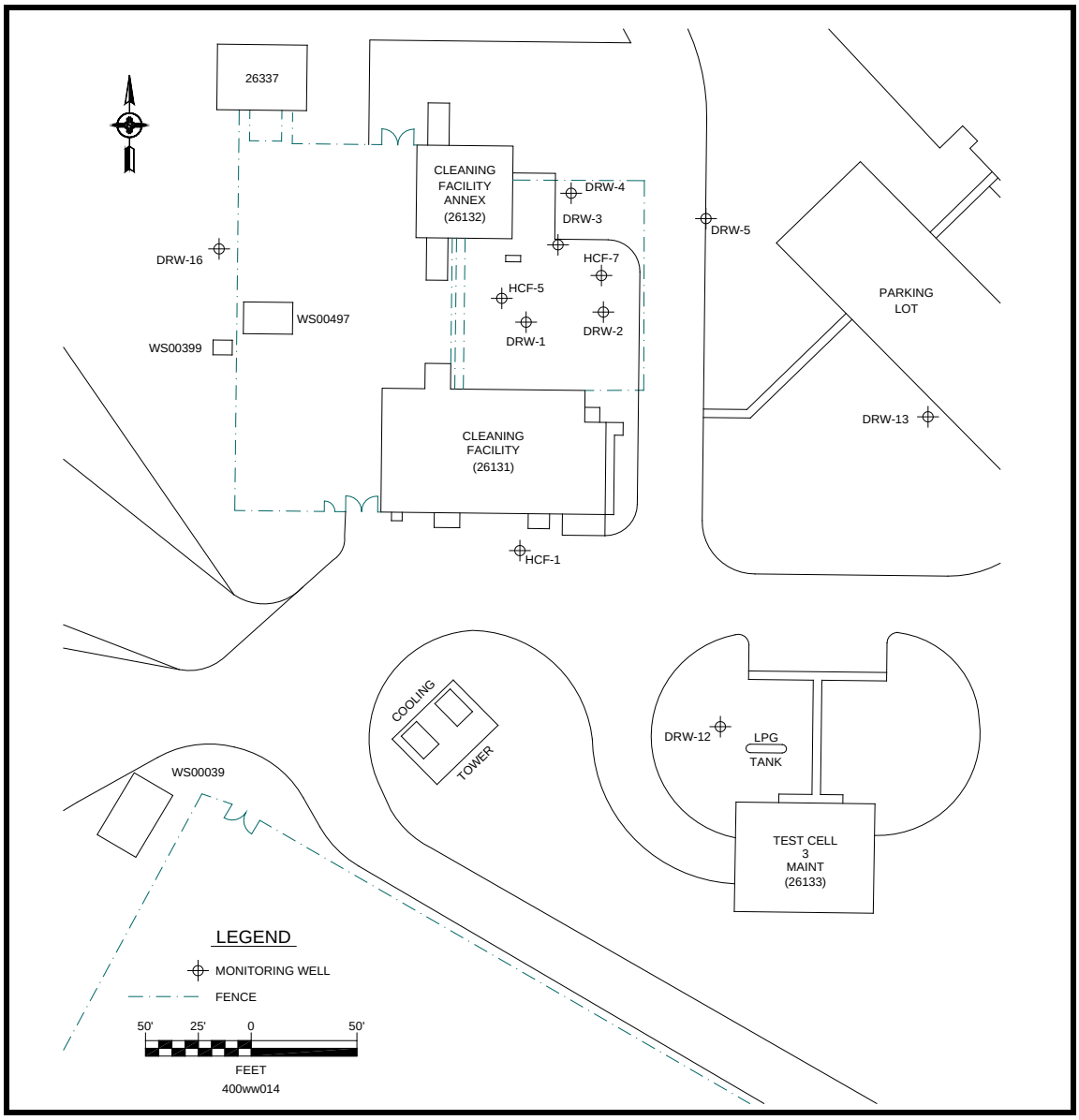


Figure 1-2. Site Diagram.

1.2 Hydrogeology

The White Sands Missile Range is in the Tularosa Basin, a large, flat valley bounded by the Jarilla, Organ, Oscura, Sacramento, San Andres, and San Augustin Mountains.

Annual precipitation is light with less than 10 inches of rainfall on average. The temperature varies between the mid 20s to upper 90s with an annual mean of 60 degrees Fahrenheit. Very little surface water exists as a result of the arid climate. Arroyos that drain the surrounding mountains contain water only following heavy precipitation events. No major arroyos pass through the HELSTF site. The low relief topography of the site is shown on Figure 1-3.

Near surface geology in the vicinity of HELSTF consists of gypsiferous sands and silts underlain by basin-filled sediments (alternating sand, silt, and clay layers).

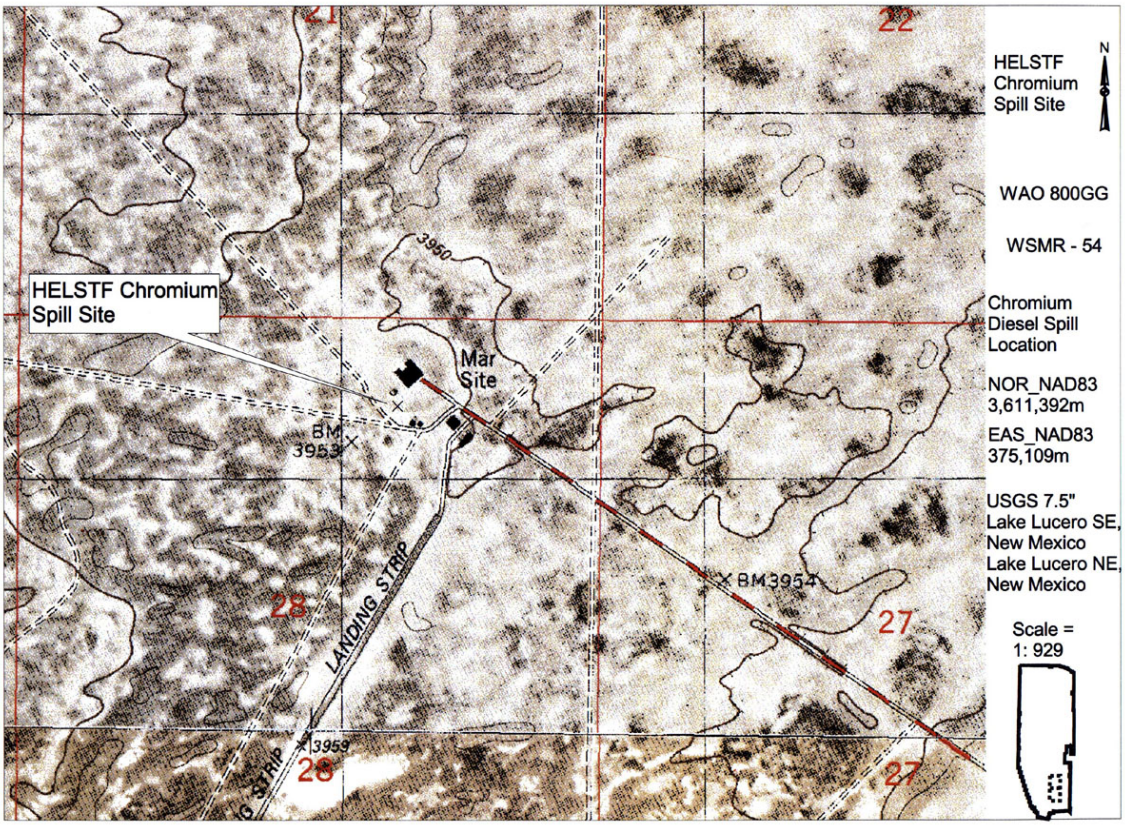


Figure 1-3. Site Topography.

Subsurface geologic conditions at the HELSTF Diesel Spill Site were characterized from stratigraphic descriptions logged during drilling activities. The deposits are characterized by thickly bedded clay with numerous, intermittent, thinly bedded units of Quaternary/Tertiary-aged sandy silt, sand, gravelly-sand, and gravel originating from the San Andres Mountains, west of the site. Groundwater flow is interpreted to be to the southeast, based on historical groundwater elevations measured at the wells.

Elevated concentrations of naturally occurring compounds are present at this location. The Tularosa Basin is a closed basin, which does not permit the water to exit the region. Rainwater and snowmelt run off the mountains towards the center of the basin. Natural transportation of the water across the surface and infiltration through the soil dissolves the feldspars from the granitic formations in the mountains as well as the gypsum and other salt-based soils in the basin. This process causes the high concentrations of total dissolved solids, chloride, fluoride, sulfate, calcium, magnesium, potassium, and sodium in groundwater samples.

The elevated concentrations of boron found in the groundwater are likely naturally occurring. Borate minerals form chiefly in arid to semi-arid environments, are of a sedimentary origin, and are generally deposited in playas from the evaporation of and precipitation from saline surface waters. Borates are readily soluble in water and tend to percolate through the soil adding boron to the groundwater of this region.

Selenium is another naturally occurring mineral found in the groundwater. Selenium, when present in alkaline soils, commonly oxidizes to the mineral selenate. Selenate, like boron, is highly soluble in water and percolates to the groundwater. The presence of selenium in the soil and groundwater may be due to the erosion of volcanic derived rocks present in this region or associated with a petroleum release.

2.0 GROUNDWATER SAMPLING

Samples are collected from eleven on-site monitoring wells and are analyzed for a suite of analytes that include: water quality parameters, dissolved ions, nutrients, total metals, dissolved metals, dissolved salts, volatile organic compounds, semi-volatile organic compounds, explosive residues and petroleum hydrocarbons. A list of analytes and the methods used are referenced in Table 2-1 on following page.

A field logbook is maintained for each sampling event. The book serves to permanently record the persons present, the date and times of any activities, the well number, air temperature, relative humidity, general weather conditions, and any monitoring data described below.

The vacuum enhanced diesel recovery system is turned off prior to sampling. The water level elevations are taken as the wells recharge. Each well is purged according to standard operating procedures. A complete description of the standard operating procedures used to acquire field measurements and collect groundwater samples is included as Appendix B. The purge volume is calculated for each well by obtaining depth to water, total well depth and well casing diameter. Temperature, pH, conductivity and appearance are monitored and recorded during purging.

Every sample is collected in a new certified clean container for laboratory chemical analyses. Equipment that has come into contact with the groundwater is decontaminated after each well using an Alconox/water solution and a water rinsate. All purge and decontamination water is containerized for analysis and proper off-site disposal. A copy of the drum log and disposal manifest is included as Appendix C.

Table 2-1. HELSTF Diesel Spill Site Analyte List.

Parameter		Reference Method	Method Type
Water Quality Parameters			
CO_3^{-2} & HCO_3^- Alkalinity		SM 2320B	Titrimetric
PH Specific Conductance Total Dissolved Solids (TDS) Total Organic Carbon		SM 4500-H+ SM 2510B SM 2540C EPA 415.1	Electrometric Conductivity Gravimetric Combustion
Dissolved Ions			
Bromide Chloride Fluoride	Nitrate-N Nitrite-N Sulfate	EPA 300.0	Ion Chromatography
Ammonium Perchlorate		EPA 314.0	Ion Chromatography
Nutrients			
Ammonia-N Total Kjeldahl Nitrogen Total Phosphorous		SM 4500-NH3 B,E EPA 351.3 SW846-6010B	Colorimetric Colorimetric ICP-AES
Total Metals			
Aluminum Arsenic Barium Beryllium Boron Cadmium Chromium Cobalt Copper Iron Lead	Manganese Molybdenum Nickel Selenium Silica Silver Strontium Tin Vanadium Zinc	SW846-6010B	ICP-AES
Mercury		SW846-7470A	Cold Vapor-Atomic Absorption (AA)
Hexavalent Chromium		SM 3500-Cr D	Spectrophotometer
Dissolved Metals			
Aluminum Arsenic Barium Beryllium Boron Cadmium Chromium Cobalt Copper Iron Lead	Lithium Manganese Molybdenum Nickel Selenium Silicon Silver Strontium Tin Vanadium Zinc	SW846-6010B	ICP-AES
Dissolved Salts			
Calcium Magnesium	Potassium Sodium	SW846-6010B	ICP-AES
Organics			
Volatile Organic Compounds (VOCs)		SW846-8260B	GC/MS
Semi-Volatile Organic Compounds (SVOCs)		SW846-8270C	GC/MS
Explosive Residues		SW846-8330 C18	HPLC
Petroleum Hydrocarbons – Diesel Range Organics (DRO)		SW846-8015B	GC/FID

EPA – Environmental Protection Agency
SM – Standard Methods
mg/L – milligrams per liter equivalent to parts per million
µg/L – micrograms per liter parts per billion
ICP-AES - Inductively Coupled Plasma-Atomic Emission Spectroscopy
GC – Gas Chromatography; MS - Mass Spectrometry; FID - Flame Ionization Detector
HPLC - High Performance Liquid Chromatography

3.0 REGULATORY CRITERIA

All laboratory analytical results are compared to New Mexico Water Quality Control Commission (NMWQCC) standards for groundwater. When NMWQCC standards are not available, the EPA's maximum contaminant level (MCL), maximum contaminant level goal (MCLG), and health advisories (HA) are compared.

4.0 GROUNDWATER MONITORING RESULTS

The monitoring wells at the HELSTF Diesel Spill Site were sampled on July 23, 24 and 25, 2001. Each well was monitored in accordance with established protocols described in 2.0. Well location and construction data is listed in Table 4-1 below.

Table 4-1. Well Location and Construction Data.

Well No.	Northing[1]	Easting[1]	Elevation[2] Brass Marker-ft (m)	Elevation[2] Top of PVC-ft (m)	Total Depth of Well – ft bgs (m)	Screen Interval (m)
DRW-1	3611428.805	375066.097	3,955.02 (1,205.55)	3,956.52 (1,205.95)	59.92 (18.26)	35.0-55.0 (10.6-16.8)
DRW-2	3611430.943	375076.729	3,954.75 (1,205.42)	3,955.80 (1,205.73)	60.0 (18.28)	35.0-55.0 (10.6-16.8)
DRW-3	3611440.74	375070.195	3,955.10 (1,205.52)	3,956.68 (1,205.51)	60.0 (18.28)	35.0-55.0 (10.6-16.8)
DRW-4	3611448.251	375072.088	3,955.03 (1,205.59)	3,956.55 (1,205.56)	60.0 (18.28)	35.0-55.0 (10.6-16.8)
DRW-5	3611444.56	375091.523	3,953.83 (1,205.14)	3,955.33 (1,205.58)	60.0 (18.28)	35.0-55.0 (10.6-16.8)
DRW-12	3611370.78	375095.104	3,954.86 (1,205.45)	3,956.39 (1,205.91)	60.0 (18.28)	35.0-55.0 (10.6-16.8)
DRW-13	3661371.793	375088.433	3,953.25 (1,204.96)	3,955.30 (1,205.58)	90.0 (27.4)	35.0-55.0 (10.6-16.8)
DRW-16	3611486.327	375049.474	3,954.00 (1,205.19)	3,956.32 (1,205.89)	90.0 (27.4)	65.0-85.0 (19.9-25.9)
HCF-1	3611395.525	375065.200	3,955.36 (1,205.60)	3,957.82 (1,206.34)	65.0 (19.81)	40.0-60.0 (12.2-18.3)
HCF-5	3611432.272	375062.587	3,956.99 (1,206.10)	3,959.39 (1,206.82)	60.5 (18.44)	35.0-55.0 (10.6-16.8)
HCF-7	3611435.602	375076.955	3,957.24 (1,206.18)	3,959.61 (1,206.89)	60.0 (18.28)	35.0-55.0 (10.6-16.8)

1. Universal Transverse Mercator (UTM) Coordinate Systems, Zone 13, North American Datum 1983 (NAD83)
2. Elevations are based on North American Vertical Datum, 1988 (NAVD88)

bgs – below ground surface m – meters
PVC – Plolyvinyl Chloride ft – feet

Water quality measurements and water level elevations taken onsite are listed in Table 4-2. The data collected during this sampling event was not consistent with the Spring 2001 event. This may be due to the recharge of groundwater after the vacuum enhanced diesel recovery system was turned off. Interviews with the field crew have confirmed that the groundwater in the monitoring wells may not have fully stabilized prior to sampling. Therefore the groundwater flow direction could not be determined using the data from this sampling event. It is assumed that the groundwater flow direction continues to be southeast as was previously determined. The groundwater elevations and flow direction as measured during the Spring 2001 sampling event is presented in Figure 4-1 on the following page. Future sampling events will allow for greater recharge time to eliminate the inconsistencies.

Table 4-2. Field Water Quality Measurements

Well No.	Date Sampled	Temperature °F (°C)	PH	Conductivity µS/cm	Depth to Water bgs ft (m)	Groundwater Elevation [1.] ft (m)	Appearance
DRW-1	7/24/01	79.6 (26.4)	6.92	7,040[2.]	40.2 (12.25)	3,914.82 (1,193.24)	Clear, sheen
DRW-2	7/24/01	87.4 (30.8)	7.09	11,160	43.35 (13.21)	3,911.40 (1,192.19)	Yellow sheen, strong diesel odor
DRW-3	7/23/01	77.2 (25.1)	7.05	13,720	41.02 (12.50)	3,914.08 (1,193.01)	Yellow, diesel sheen w/odor
DRW-4	7/23/01	76.0 (24.4)	6.89	10,500	40.31 (12.29)	3,914.66 (1,193.19)	Slight yellow w/odor
DRW-5	7/24/01	76.4 (24.7)	6.83	9,100	40.75 (12.42)	3,913.08 (1,192.71)	Clear w/slight diesel odor
DRW-12	7/24/01	82.4 (28.0)	6.78	Off Scale	43.92 (13.39)	3,910.94 (1,192.05)	Slightly cloudy
DRW-13	7/24/01	79.0 (26.1)	5.49	5,800	44.26 (13.49)	3,908.99 (1,191.46)	Clear
DRW-16	7/25/01	76.8 (24.9)	7.77	8,450	72.98 (22.24)	3,881.02 (1,182.93)	Clear
HCF-1	7/25/01	84.3 (29.1)	7.21	12,270	42.99 (13.10)	3,912.37 (1,192.49)	Strong diesel odor, very light yellow sheen
HCF-5	7/23/01	86.9 (30.5)	6.99	7,030	39.56 (12.06)	3,917.43 (1,194.03)	Dark
HCF-7	7/23/01	84.6 (29.2)	7.08	7,360	41.84 (12.75)	3,915.40 (1,193.41)	Clear, sheen

1. Elevations are based on North American Vertical Datum, 1988 (NAVD88)
2. Equipment malfunction, last reliable recorded value was 7,040 µS/cm.

Abbreviations:

ft – feet
m - meter
bgs - below ground surface
°F – Degrees Fahrenheit
°C – Degrees Celsius
µS/cm – microsiemens per centimeter

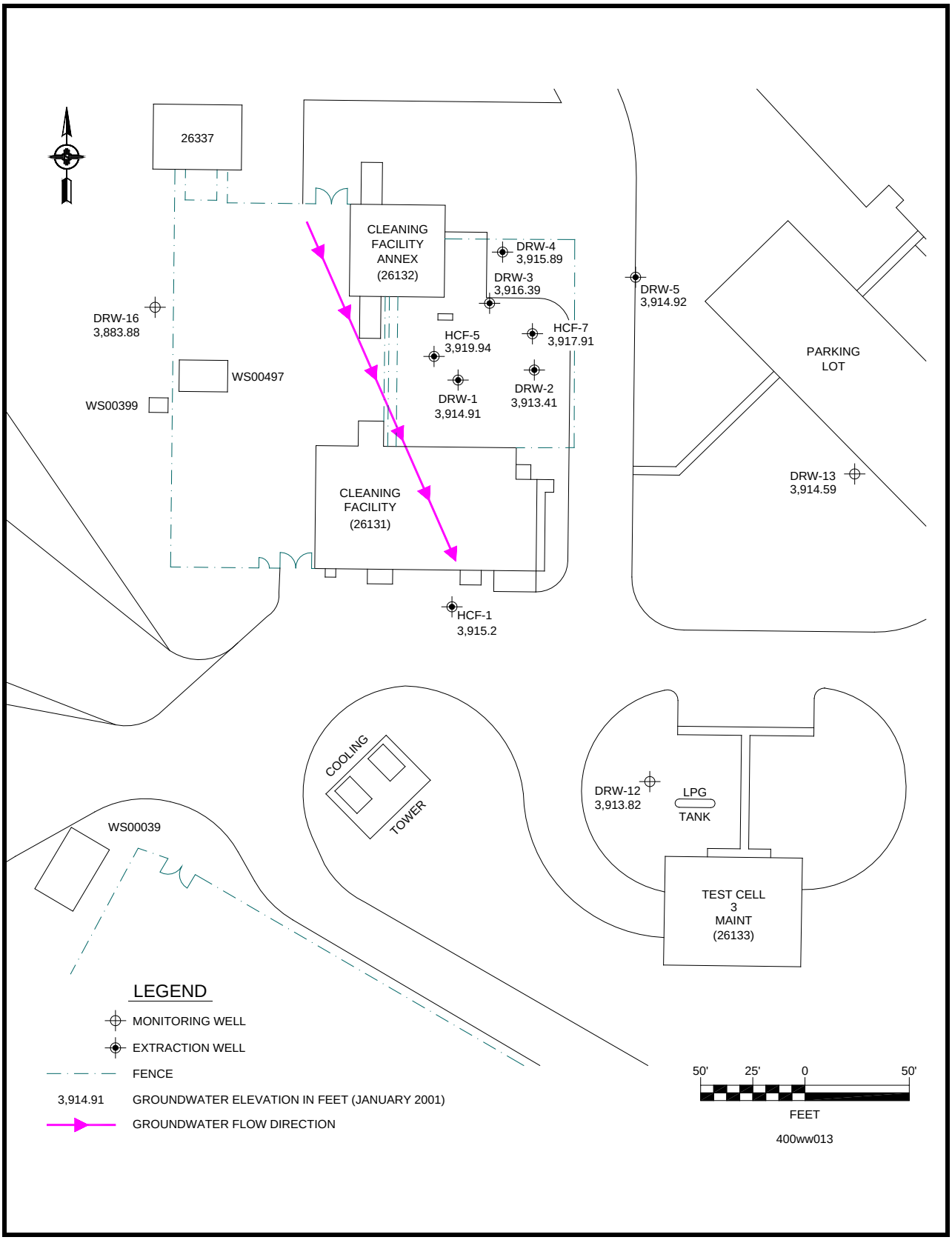


Figure 4-1. Groundwater Elevations and Flow Direction

5.0 GROUNDWATER CHEMICAL ANALYTICAL DATA

The monitoring wells at the HELSTF Diesel Spill Site were sampled in accordance with established protocols described in Section 2.0. Primary samples were collected from all the wells. Separate sample volumes were collected for quality control (QC) analysis from DRW-3 and HCF-5. Data validation was further supported by the use of trip blanks.

Concentrations of detected analytes are presented in Table 5-1 on the following page. The results that exceeded the NMWQCC standards are in bold. The complete set of analytical results for the sampling event is presented in Appendix D.

Analysis of water quality parameters revealed respective concentrations of TDS in DRW-1, DRW-2, DRW-3, DRW-4, DRW-5, DRW-12, DRW-13, DRW-16, HCF-1, HCF-5 and HCF-7 of 7,700 mg/L, 9,700 mg/L, 12,500 mg/L, 8,750 mg/L, 8,700 mg/L, 30,000 mg/L, 6,900 mg/L, 12,000 mg/L, 16,000 mg/L, 7,900 mg/L and 7,920 mg/L, which exceed the NMWQCC standard of 1,000 mg/L.

Analysis of dissolved ions indicated concentrations of chloride, fluoride, nitrate-n, nitrite-n, and sulfate above the regulatory limits as follows:

- Respective concentrations of chloride in DRW-1, DRW-2, DRW-3, DRW-4, DRW-5, DRW-12, DRW-13, DRW-16, HCF-1, HCF-5 and HCF-7 were 720 mg/L, 1,300 mg/L, 1,700 mg/L, 900 mg/L, 1,100 mg/L, 6,000 mg/L, 720 mg/L, 1,500 mg/L, 1,200 mg/L, 780 mg/L and 850 mg/L, which exceed the NMWQCC standard of 250 mg/L.
- Respective concentrations of fluoride in DRW-3 and DRW-13 were 2.1 mg/L and 3.5 mg/L, which exceed the NMWQCC standard of 1.6 mg/L.
- Respective concentrations of nitrate-n in DRW-2, DRW-3, DRW-12, DRW-13, DRW-16, HCF-1 and HCF-7 were 22 mg/L, 46 mg/L, 200 mg/L, 27 mg/L, 43 mg/L, 44 mg/L and 12 mg/L, which exceed the NMWQCC standard of 10 mg/L.
- The concentration of nitrite-n in DRW-5 was 1.5 mg/L, which exceeded the EPA's MCL of 1 mg/L.
- Respective concentrations of sulfate in DRW-1, DRW-2, DRW-3, DRW-4, DRW-5, DRW-12, DRW-13, DRW-16, HCF-1, HCF-5 and HCF-7 were 2,900 mg/L, 4,500 mg/L, 6,200 mg/L, 3,600 mg/L, 3,600 mg/L, 11,000 mg/L, 3,800 mg/L, 6,500 mg/L, 8,100 mg/L, 3,000 mg/L and 3,300 mg/L, which exceed the NMWQCC standard of 600 mg/L.

Analysis of total dissolved metals indicated concentrations of boron, chromium, molybdenum, selenium and vanadium above the regulatory limits as follows:

- Respective concentrations of dissolved boron in DRW-1, DRW-2, DRW-3, DRW-4, DRW-5, DRW-12, DRW-13, DRW-16, HCF-1, HCF-5 and HCF-7 were 7.52 mg/L, 7.64 mg/L, 5.8 mg/L, 6.72 mg/L, 6.05 mg/L, 3.25 mg/L, 2.20 mg/L, 1.82 mg/L, 7.91 mg/L, 7.20 mg/L and 7.66 mg/L, which exceed the NMWQCC standard of 0.75 mg/L.
- The concentration of dissolved chromium in DRW-16 was 0.32 mg/L, which exceeded the EPA's MCL of 0.05 mg/L.

Table 5-1. Results of HELSTF Diesel Spill Fall 2001 Groundwater Analysis.

(Detected analytes only)

METHOD	ANALYTE	UNIT	NMWQCC STD.	DRW-1	DRW-2	DRW-3	DRW-3 QC	DRW-4	DRW-5	DRW-12	DRW-13	DRW-16	HCF-1	HCF-5	HCF-5 QC	HCF-7
	Water Quality Parameters															
SM 2320B	Total Alkalinity	mg/L	NE	2,150	1,590	1,200	1,200	1,500	1,300	168	95.4	190	280	2,200	2,200	1,800
SM 2320B	Bicarbonate Alkalinity	mg/L	NE	2,150	1,590	1,200	1,200	1,500	1,300	168	95.4	190	280	2,200	2,200	1,800
SM 4500-H+	pH	Std.	6.0-9.0	7.01	7.75	7.95	8.0	7.71	7.73	7.19	8.05	7.80	7.74	7.93	7.88	7.91
SM 2510B	Specific Conductance	umhos/cm	NE	9,550	11,800	15,000	15,000	11,000	10,700	30,100	7,570	12,000	15,000	10,000	10,000	10,000
SM 2540C	Total Dissolved Solids	mg/L	1,000	**7,700**	**9,700**	**12,500**	**12,000**	**8,750**	**8,700**	**30,000**	**6,900**	**12,000**	**16,000**	**7,900**	**7,750**	**7,920**
EPA 415.1	Total Organic Carbon	mg/L	NE	1.86	20.5	17.6	17.8	15.7	13.7	4.63	1.15	1.37	5.57	23.8	24.1	23.9
	Dissolved Ions															
EPA 300.0	Chloride	mg/L	250	**720**	**1,300**	**1,700**	**1,600**	**900**	**1,100**	**6,000**	**720**	**1,500**	**1,200**	**780**	**770**	**850**
EPA 300.0	Fluoride	mg/L	1.6	1.4	ND	**2.1**	**5.1**	1.1	ND	ND	**3.5**	ND	ND	ND	ND	ND
EPA 300.0	Nitrate-N	mg/L	10	2.0	**22**	**46**	**55**	3.3	9.8	**200**	**27**	**43**	**44**	3.1	2.9	**12**
EPA 300.0	Nitrite-N	mg/L	1 (MCL)	ND	ND	ND	ND	ND	**1.5**	ND	ND	ND	ND	ND	ND	ND
EPA 300.0	Sulfate	mg/L	600	**2,900**	**4,500**	**6,200**	**5,700**	**3,600**	**3,600**	**11,000**	**3,800**	**6,500**	**8,100**	**3,000**	**2,900**	**3,300**
	Nutrients															
6010B	Total Phosphorus	mg/L	NE	0.271	0.441	0.327	0.326	0.311	0.309	0.901	0.261	0.266	0.284	0.258	0.236	0.436
	Total Metals															
6010B	Aluminum	mg/L	NE	ND	ND	ND	ND	ND	ND	7.32	0.199	ND	ND	ND	ND	ND
6010B	Arsenic	mg/L	NE	0.0701	ND	0.119	0.0899	ND	ND	0.0617	ND	ND	ND	ND	ND	ND
6010B	Barium	mg/L	NE	ND	ND	ND	0.106	ND	ND	ND	ND	ND	ND	ND	ND	ND
6010B	Boron	mg/L	NE	7.00	6.66	7.65	5.94	6.56	5.34	3.1	2.08	1.68	7.51	7.26	7.05	7.56
6010B	Chromium	mg/L	NE	ND	ND	ND	ND	ND	ND	29	0.0382	0.334	ND	ND	0.0326	ND
6010B	Cobalt	mg/L	NE	ND	ND	ND	ND	ND	ND	0.0779	ND	ND	ND	ND	ND	ND
6010B	Copper	mg/L	NE	ND	ND	0.0446	0.0125	ND	0.0158	0.375	ND	ND	ND	ND	ND	ND
6010B	Iron	mg/L	NE	1.27	0.213	0.41	0.483	0.425	ND	101	0.486	0.0877	0.903	2.89	3.37	0.258
6010B	Lead	mg/L	NE	ND	ND	0.0157	0.0164	ND	ND	0.0284	ND	ND	ND	ND	ND	ND
6010B	Manganese	mg/L	NE	2.08	0.0586	0.56	0.588	1.73	1.02	0.899	ND	ND	2.04	0.344	0.358	0.0892
	Total Metals (Cont'd)															
6010B	Molybdenum	mg/L	NE	ND	0.233	0.469	0.355	0.118	0.106	1.03	0.126	ND	0.777	0.11	0.119	0.128
6010B	Nickel	mg/L	NE	0.0829	ND	0.059	0.0573	0.0356	ND	8.32	0.0439	0.0581	ND	0.0785	0.13	0.0273
6010B	Selenium	mg/L	NE	ND	ND	0.0695	0.0573	ND	ND	0.228	ND	0.0781	0.0847	ND	ND	ND
6010B	Silica	mg/L	NE	19.9	16.5	20.9	12.1	18.7	9.47	25.7	13.4	22.6	16.2	16.1	19.1	16
6010B	Strontium	mg/L	NE	3.9	3.69	4.82	4.41	4.24	3.78	9.16	8.02	8.00	6.42	3.39	3.49	3.18
6010B	Vanadium	mg/L	NE	ND	ND	ND	ND	0.0492	0.0608	0.0647	ND	ND	ND	ND	ND	ND
6010B	Zinc	mg/L	NE	ND	ND	0.157	ND	ND	ND	0.0677	ND	ND	ND	ND	ND	ND
	Dissolved Metals															
6010B	Aluminum	mg/L	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6010B	Arsenic	mg/L	0.1	0.0263	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6010B	Barium	mg/L	1.0	0.0334	0.0823	0.0856	0.0859	0.0118	0.0303	0.0423	0.0317	0.0251	ND	0.0125	0.0113	0.049
6010B	Boron	mg/L	0.75	**7.52**	**7.64**	**5.8**	**5.95**	**6.72**	**6.05**	**3.25**	**2.20**	**1.82**	**7.91**	**7.20**	**7.09**	**7.66**
6010B	Chromium	mg/L	0.05	ND	ND	ND	ND	ND	ND	ND	ND	**0.32**	ND	ND	ND	ND
6010B	Cobalt	mg/L	0.05	0.0158	ND	ND	ND	ND	ND	**0.0703**	ND	ND	ND	ND	ND	ND
6010B	Copper	mg/L	1.3 (AL)	ND	ND	0.0163	ND	ND	ND	0.24	ND	0.0123	ND	ND	0.0173	ND
6010B	Iron	mg/L	1.0	0.316	0.0595	0.1	0.106	0.0586	ND	**6.87**	ND	ND	0.627	**2.30**	**3.10**	0.174
6010B	Lithium	mg/L	NE	0.446	0.656	0.67	0.706	0.64	0.554	1.3	0.543	0.8	0.72	0.506	0.492	0.48
6010B	Manganese	mg/L	0.2	**2.10**	0.0634	**0.564**	**0.575**	**1.84**	**1.00**	**1.05**	0.00565	0.00441	**2.92**	**0.357**	**0.359**	0.0878
6010B	Molybdenum	mg/L	1.0	0.0453	0.178	0.396	0.408	0.12	0.106	0.275	0.134	0.0371	0.767	0.107	0.119	0.114
6010B	Nickel	mg/L	0.2	0.0787	0.0229	0.0522	0.0502	0.0224	ND	**6.82**	0.044	0.0536	ND	0.0811	0.0891	0.0198
6010B	Selenium	mg/L	0.05	0.0145	**1.23**	**0.0912**	**0.0829**	0.0294	**0.0978**	**0.284**	**0.0742**	**0.0858**	**0.0908**	0.0270	0.0211	0.0416
6010B	Silica	mg/L	NE	18.2	16.5	18.9	19.3	21.0	17.3	8.57	13.6	18.7	17.8	18.8	17.8	14.5
6010B	Strontium	mg/L	17 (HA)	3.87	4.18	4.65	4.96	4.48	3.82	9.67	8.22	7.89	7.70	3.91	3.89	3.51
6010B	Vanadium	mg/L	0.02 (HA)	0.0139	ND	ND	ND	**0.0451**	**0.0616**	ND	**0.0208**	ND	ND	ND	ND	ND
6010B	Tin	mg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0179	0.0114
	Dissolved Salts															
6010B	Calcium	mg/L	NE	217	174	265	191	207	157	469	401	485	473	146	136	93.9
6010B	Magnesium	mg/L	NE	252	448	579	449	292	426	1,598	339	681	631	255	230	260
6010B	Potassium	mg/L	NE	59.1	108	154	101	71.9	99.1	274	87.7	88.7	149	61.8	59.5	56.4
6010B	Sodium	mg/L	20 (HA)	**1,955**	**2,651**	**2,518**	**2,582**	**2,284**	**1,807**	**4,517**	**888**	**2,285**	**2,653**	**1,814**	**1,763**	**1,843**
	VOCs															
8260B	1,1-Dichloroethene	µg/L	5	1.94	ND	2.78	3.03	1.79	ND	ND	ND	ND	ND	1.74	2.05	ND
8260B	1,1-Dichloroethane	µg/L	25	**30.1**	**82.4**	**57.2**	**62.3**	**29.0**	**39.0**	**39.0**	ND	ND	ND	**37.1**	**36.6**	**74.7**
8260B	Chloroform	µg/L	100	ND	ND	1.19	1.07	ND	1.00	ND	3.84	ND	ND	ND	ND	ND
8260B	Benzene	µg/L	10	**23.1**	**59.6**	6.92	7.85	5.51	4.86	ND	ND	ND	1.99	**31.6**	**29.8**	**56.5**
8260B	Trichloroethene	µg/L	100	ND	ND	4.43	4.10	ND	ND	5.78	1.73	9.73	ND	ND	ND	ND
8260B	Total Xylenes	µg/L	620	ND	24	6.55	7.3	ND	ND	ND	ND	ND	ND	9.18	9.41	**2,108**
8260B	Toluene	µg/L	750	1.35	ND	10.3	11.9	ND	ND	ND	ND	ND	ND	1.45	2.21	**233**
8260B	Ethylbenzene	µg/L	750	5.67	10.1	6.13	6.9	ND	ND	ND	ND	ND	ND	9.07	8.14	331
8260B	Isopropylbenzene	µg/L	NE	4.26	77.8	4.43	5.06	3.17	4.70	ND	ND	ND	5.28	10.6	10.4	36.8
8260B	N-Propylbenzene	µg/L	NE	3.46	35.0	1.50	1.70	ND	ND	ND	ND	ND	ND	10.7	9.19	62.6
8260B	1,1,1-Trichloroethane	µg/L	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	ND
8260B	1,2,4-Trimethylbenzene	µg/L	NE	5.92	601	5.39	6.38	ND	ND	ND	ND	ND	1.02	25.2	20.3	664
8260B	1,3,5-Trimethylbenzene	µg/L	NE	1.39	146	3.38	3.88	ND	ND	ND	ND	ND	ND	8.02	7.62	191
8260B	Sec-Butylbenzene	µg/L	NE	4.27	77.8	2.77	3.04	3.41	3.22	ND	ND	ND	4.11	7.29	6.80	19.7
8260B	P-Isopropyltoluene	µg/L	NE	ND	29.5	ND	1.01	ND	ND	ND	ND	ND	ND	3.45	2.99	15.2
8260B	MTBE	µg/L	100	9.59	ND	4.34	4.77	4.57	ND	ND	ND	ND	ND	5.34	5.24	ND
8260B	N-Butylbenzene	µg/L	NE	1.41	49.5	1.14	1.12	ND	ND	ND	ND	ND	ND	4.44	3.18	15.6
8260B	Naphthalene	µg/L	30	**48.7**	**885**	**62.6**	**64.6**	6.67	18.7	ND	ND	ND	**52.9**	**151**	**61.8**	**169**
	SVOCs															
8270C	Naphthalene	µg/L	30	**32**	**98**	23	25	ND	12	ND	ND	ND	26	**50**	**53**	**105**
8270C	Acenaphthene	µg/L	NE	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	7	ND
8270C	1-Methylnaphthalene	µg/L	NE	49	401	45	53	39	62	ND	ND	ND	85	100	161	227
8270C	2-Methylnaphthalene	µg/L	NE	125	397	40	62	ND	43	ND	ND	ND	78	143	107	158
8270C	Dibenzofuran	µg/L	NE	12	ND	6	7	12	8	ND	ND	ND	8	16	16	ND
8270C	Fluorene	µg/L	TOX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10**	**10**	ND
8270C	Phenanthrene	µg/L	TOX	**11**	**110**	**6**	**6**	**8**	**6**	ND	ND	ND	**6**	**18**	**18**	**133**
8270C	Anthracene	µg/L	TOX	**11**	ND	**6**	**7**	**9**	ND	ND	ND	ND	**7**	**19**	**19**	ND
	Petroleum Hydrocarbons															
EPA 8015B	Diesel Range Organics	mg/L	NE	ND	1,180	ND	ND	ND	ND	ND	ND	ND	ND	221	ND	1,620

H = Higher value established by a different method
MCL = EPA Maximum Contaninant Level
Std. = Standard unit of measurement
ND = Not Detected Above Reporting Limits

NE = No NMWQCC standard is established
ug/L = micrograms per liter
Umhos/cm = microsiemens per centimeter

HA = Environmental Protection Agency Health Advisory
mg/L = milligrams per liter
Bold = Exceeds NMWQCC groundwater standards

- The concentration of dissolved cobalt in DRW-12 was 0.0703 mg/L, which exceeded the EPA's MCL of 0.05 mg/L.
- Respective concentrations of dissolved iron in DRW-12 and HCF-5 were 6.87 and 2.30 mg/L, which exceed the NMWQCC standard of 1.0 mg/L.
- Respective concentrations of dissolved manganese in DRW-1, DRW-3, DRW-4, DRW-5, DRW-12, HCF-1 and HCF-5 were 2.10 mg/L, 0.564 mg/L, 1.84 mg/L, 1.00 mg/L, 1.05 mg/L, 2.92 mg/L and 0.357 mg/L, which exceed the NMWQCC standard of 0.2 mg/L.
- The concentration of dissolved nickel in DRW-12 was 6.82 mg/L, which exceeded the EPA's MCL of 0.2 mg/L.
- Respective concentrations of dissolved selenium in DRW-2, DRW-3, DRW-5, DRW-12, DRW-13, DRW-16 and HCF-1 were 1.23 mg/L, 0.0912 mg/L, 0.0978 mg/L, 0.284 mg/L, 0.0742 mg/L, 0.0858 mg/L, and 0.0908 mg/L, which exceed the NMWQCC standard of 0.05 mg/L.
- Respective concentrations of dissolved vanadium in DRW-4, DRW-5 and DRW-13 were 0.0451 mg/L, 0.0616 mg/L and 0.0208 mg/L, which exceeded the EPA's (non-enforceable) health advisory of 0.02 mg/L.

Analysis of dissolved salts revealed respective concentrations of sodium in DRW-1, DRW-2, DRW-3, DRW-4, DRW-5, DRW-12, DRW-13, DRW-16, HCF-1, HCF-5 and HCF-7 were 1,955 mg/L, 2,651 mg/L, 2,518 mg/L, 2,284 mg/L, 1,807 mg/L, 4,517 mg/L, 888 mg/L, 2,285 mg/L, 2,653 mg/L, 1,814 mg/L and 1,843 mg/L, which exceed the EPA's (non-enforceable) health advisory of 20 mg/L.

Analysis of volatile organic compounds indicated concentrations of 1,1-Dichloroethane, Benzene, Xylenes, Naphthalene, Fluorene, Phenanthrene and Anthracene, above the regulatory limits as follows:

- Respective concentrations of 1,1-Dichloroethane in DRW-1, DRW-2, DRW-3, DRW-4, DRW-5, DRW-12, HCF-5 and HCF-7 were 30.1 ug/L, 82.4 ug/L, 57.2 ug/L, 29.0 ug/L, 39.0 ug/L, 39.0 ug/L, 37.1 ug/L and 74.7 ug/L, which exceed the NMWQCC standard of 25 ug/L.
- Respective concentrations of benzene in DRW-1, DRW-2, HCF-5 and HCF-7 were 23.1 ug/L, 59.6 ug/L, 31.6 ug/L and 56.5 ug/L, which exceed the NMWQCC standard of 10 ug/L.
- The concentration of total xylenes in HCF-7 was 2,108 ug/L, which exceeded the NMWQCC standard of 620 ug/L.
- Respective concentrations of naphthalene in DRW-1, DRW-2, DRW-3, HCF-1, HCF-5 and HCF-7 were 48.7 ug/L, 885 ug/L, 62.6 ug/L, 52.9 ug/L, 151 ug/L and 169 ug/L, which exceed the NMWQCC standard of 30 ug/L.
- The concentration of fluorene in HCF-5 was 10 ug/L. This compound is a toxic pollutant as defined by the NMWQCC. The cleanup criteria for this compound is developed during the risk assessment.
- Respective concentrations of phenanthrene in DRW-1, DRW-2, DRW-3, DRW-4, DRW-5, HCF-1, HCF-5 and HCF-7 were 11 ug/L, 110 ug/L, 6 ug/L, 8 ug/L, 6 ug/L, 6 ug/L, 18 ug/L and 133 ug/L. This compound is a toxic pollutant as defined by the NMWQCC. The cleanup criteria for this compound is developed during the risk assessment.

- Respective concentrations of anthracene in DRW-1, DRW-3, DRW-4, HCF-1 and HCF-5 were 11 ug/L, 6 ug/L, 9 ug/L, 7 ug/L and 19 ug/L. This compound is a toxic pollutant as defined by the NMWQCC. The cleanup criteria for this compound is developed during the risk assessment.

6.0 SUMMARY

Groundwater at the site is monitored semi-annually for a suite of analytes. Samples were collected from eleven on-site monitoring wells and separate sample volumes were collected for performance of QC analysis during the sampling event. This report presents the results of the Fall 2001 sampling event.

The contaminants of concern, which exceed the New Mexico Water Quality Control Commission (NMWQCC) standards for groundwater include total dissolved solids, chloride, fluoride, nitrate-n, nitrite-n, sulfate, boron, chromium, cobalt, iron, manganese, nickel, selenium, vanadium, sodium and 1,1-dichloroethene, benzene, xylene, naphthalene, fluorene, phenanthrene and anthracene. Of these analytes, it is well documented that total dissolved solids, chloride, fluoride, sulfate, boron, selenium and sodium area naturally occurring in this region.

Based on data from the Fall 2001 sampling event, contaminants are present in the groundwater at the HELSTF Diesel Spill Site.

REFERENCES

MEVATEC Corporation, March 2001, Installation Action Plan, March 2001, Final.

NMED-Hazardous and Radioactive Materials Bureau, 1998. *Position Paper, Section III.B.2.b, Page 1.*

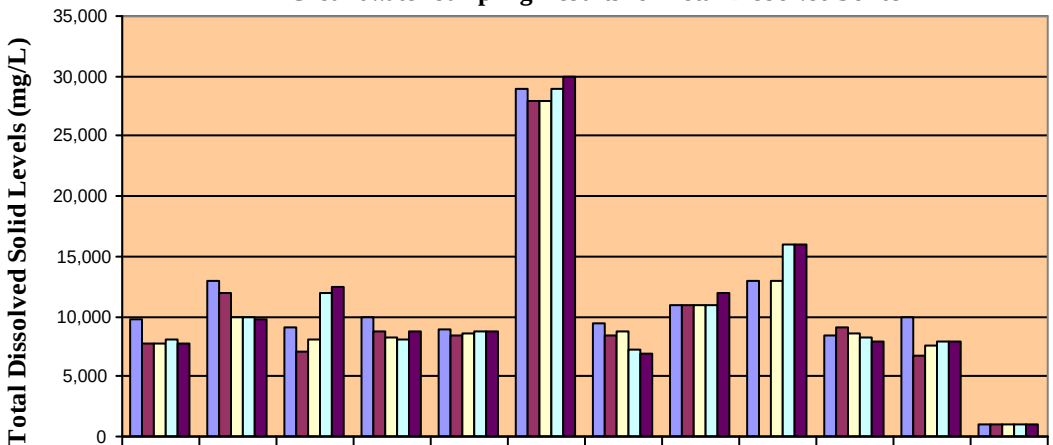
New Mexico Water Quality Control Commission, 2001. New Mexico Water Quality Control Commission Regulations.

U.S. Environmental Protection Agency, May 1995. *Drinking Water Regulations and Health Advisories*.

APPENDIX A

GRAPHS OF ANALYTICAL RESULT TRENDS

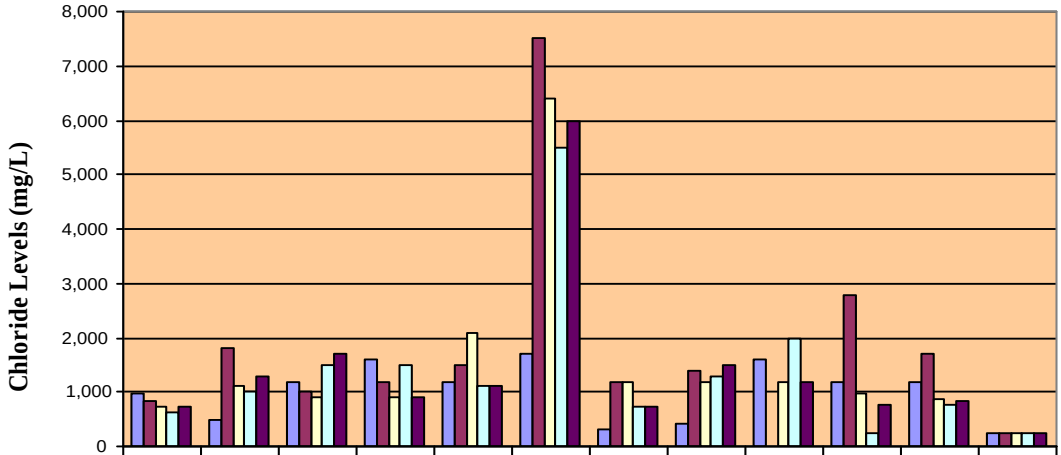
HELSTF Diesel Spill
Groundwater sampling Results for Total Dissolved Solids



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQ CC Std.
Spring 1999	9,700	13,000	9,100	10,000	8,900	29,000	9,500	11,000	13,000	8,400	10,000	1,000
Spring 2000	7,800	12,000	7,100	8,800	8,400	28,000	8,400	11,000		9,100	6,800	1,000
Fall 2000	7,800	9,900	8,100	8,200	8,500	28,000	8,700	11,000	13,000	8,500	7,600	1,000
Spring 2001	8,100	10,000	12,000	8,000	8,800	29,000	7,200	11,000	16,000	8,200	7,900	1,000
Fall 2001	7,700	9,700	12,500	8,750	8,700	30,000	6,900	12,000	16,000	7,900	7,920	1,000

Well Name

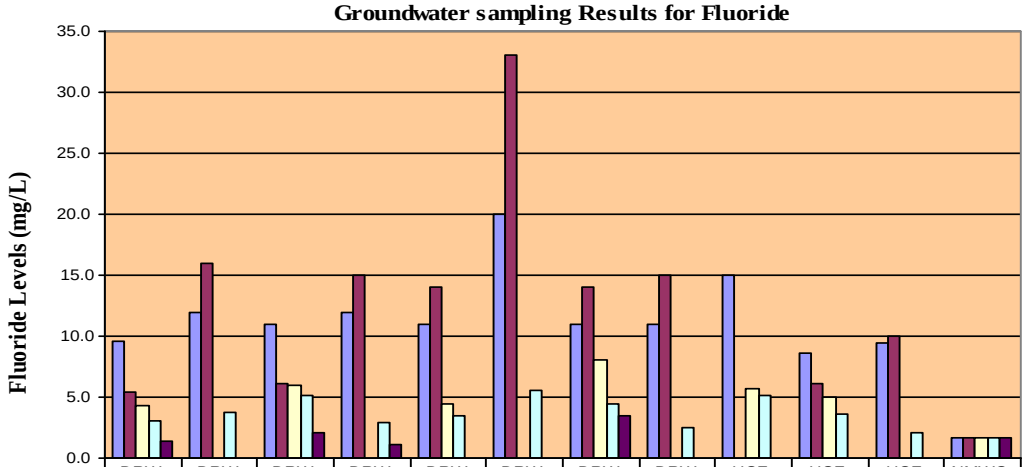
HELSTF Diesel Spill
Groundwater sampling Results for Chloride



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQ CC Std.
Spring 1999	980	480	1,200	1,600	1,200	1,700	320	410	1,600	1,200	1,200	250
Spring 2000	850	1,800	1,000	1,200	1,500	7,500	1,200	1,400		2,800	1,700	250
Fall 2000	730	1,100	910	910	2,100	6,400	1,200	1,200	1,200	980	860	250
Spring 2001	640	1,000	1,500	1,500	1,100	5,500	730	1,300	2,000	240	770	250
Fall 2001	720	1,300	1,700	900	1,100	6,000	720	1,500	1,200	780	850	250

Well Name

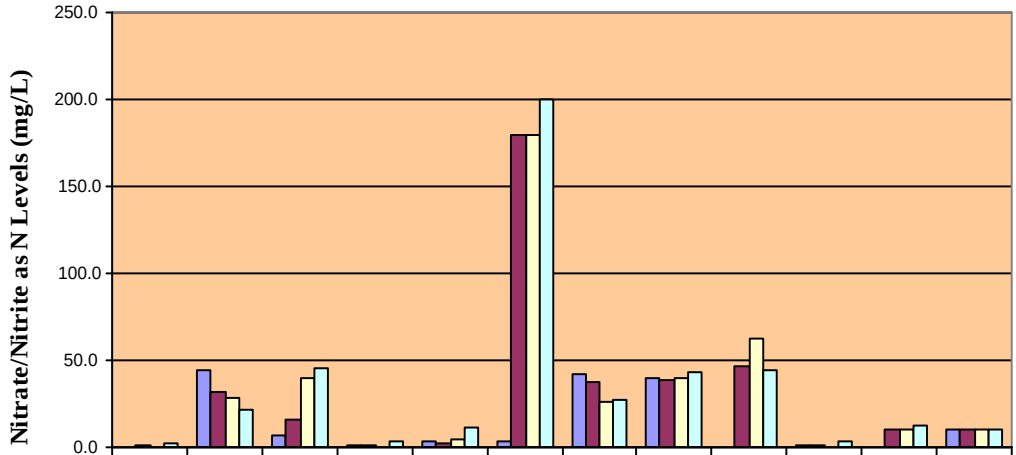
HELSTF Diesel Spill
Groundwater sampling Results for Fluoride



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQ CC Std.
Spring 1999	9.6	12.0	11.0	12.0	11.0	20.0	11.0	11.0	15.0	8.6	9.5	1.6
Spring 2000	5.4	16.0	6.1	15.0	14.0	33.0	14.0	15.0		6.1	10.0	1.6
Fall 2000	4.3	0.0	6.0	0.0	4.5	0.0	8.0	0.0	5.7	5.0	0.0	1.6
Spring 2001	3.0	3.8	5.2	2.9	3.5	5.6	4.5	2.5	5.2	3.6	2.1	1.6
Fall 2001	1.4	0.0	2.1	1.1	0.0	0.0	3.5	0.0	0.0	0.0	0.0	1.6

Well Name

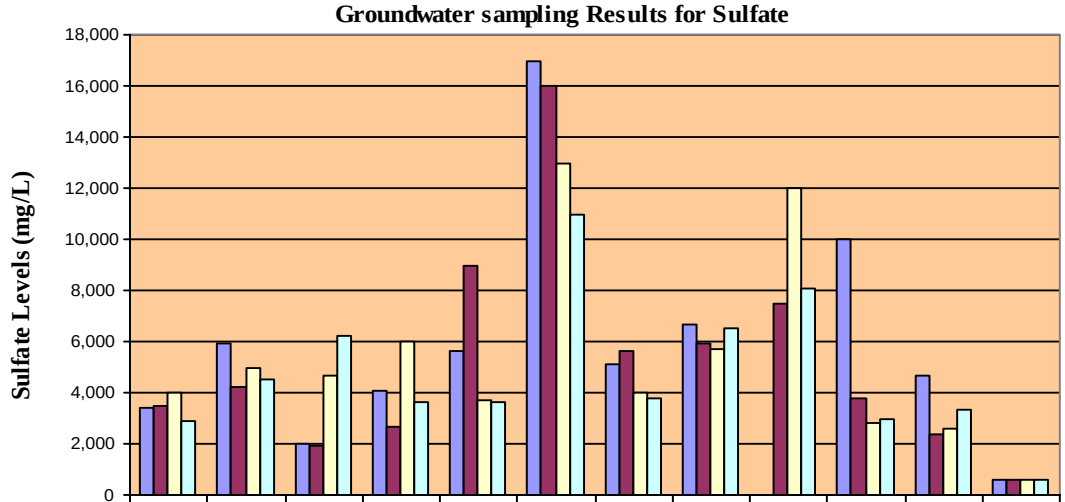
HELSTF Diesel Spill
Groundwater sampling Results for Nitrate/Nitrite as N



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQ CC Std.
Spring 2000	0.0	44.0	7.1	1.1	2.9	2.9	42.0	40.0		1.0	0.0	10.0
Fall 2000	0.6	32.0	16.0	0.7	2.1	180.0	38.0	39.0	47.0	1.0	9.9	10.0
Spring 2001	0.2	28.0	40.0	0.0	4.2	180.0	26.0	40.0	63.0	0.2	10.0	10.0
Fall 2001	2.0	22.0	46.0	3.3	11.3	200.0	27.0	43.0	44.0	3.1	12.0	10.0

Well Name

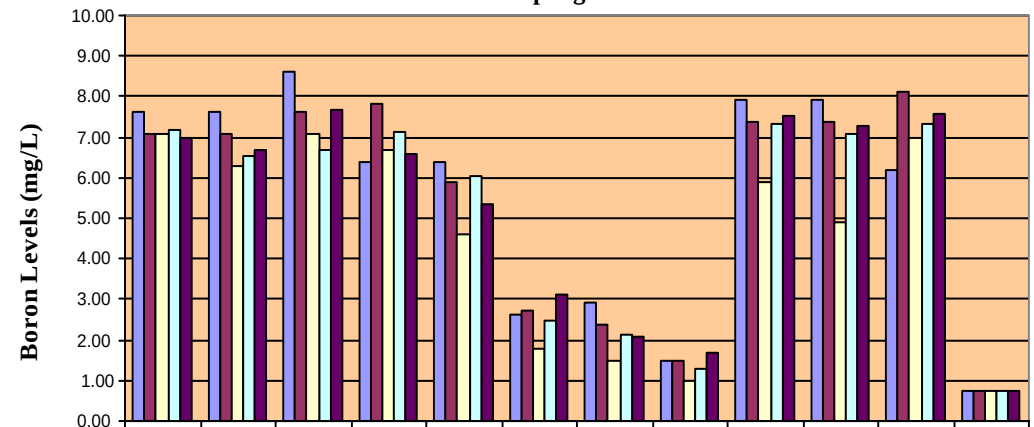
HELSTF Diesel Spill
Groundwater sampling Results for Sulfate



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQ CC Std.
Spring 2000	3,400	5,900	2,000	4,100	5,600	17,000	5,100	6,700		10,000	4,700	600
Fall 2000	3,500	4,200	1,900	2,700	9,000	16,000	5,600	5,900	7,500	3,800	2,400	600
Spring 2001	4,000	5,000	4,700	6,000	3,700	13,000	4,000	5,700	12,000	2,800	2,600	600
Fall 2001	2,900	4,500	6,200	3,600	3,600	11,000	3,800	6,500	8,100	3,000	3,300	600

Well Name

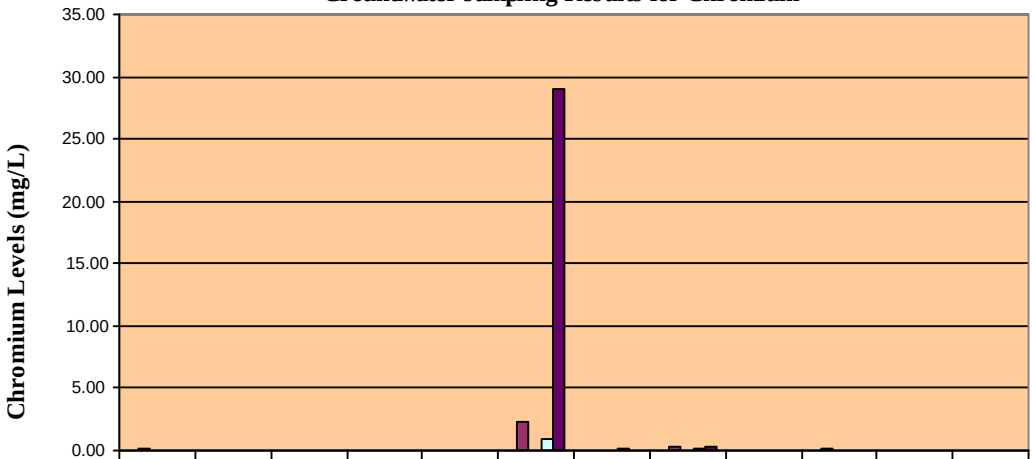
HELSTF Diesel Spill
Groundwater sampling Results for Boron



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQ CC Std.
Spring 1999	7.60	7.60	8.60	6.40	6.40	2.60	2.90	1.50	7.90	7.90	6.20	0.75
Spring 2000	7.10	7.10	7.60	7.80	5.90	2.70	2.40	1.50	7.40	7.40	8.10	0.75
Fall 2000	7.10	6.30	7.10	6.70	4.60	1.80	1.50	1.00	5.90	4.90	7.00	0.75
Spring 2001	7.19	6.51	6.70	7.13	6.02	2.50	2.13	1.27	7.35	7.07	7.34	0.75
Fall 2001	7.00	6.66	7.65	6.56	5.34	3.10	2.08	1.68	7.51	7.26	7.56	0.75

Well Name

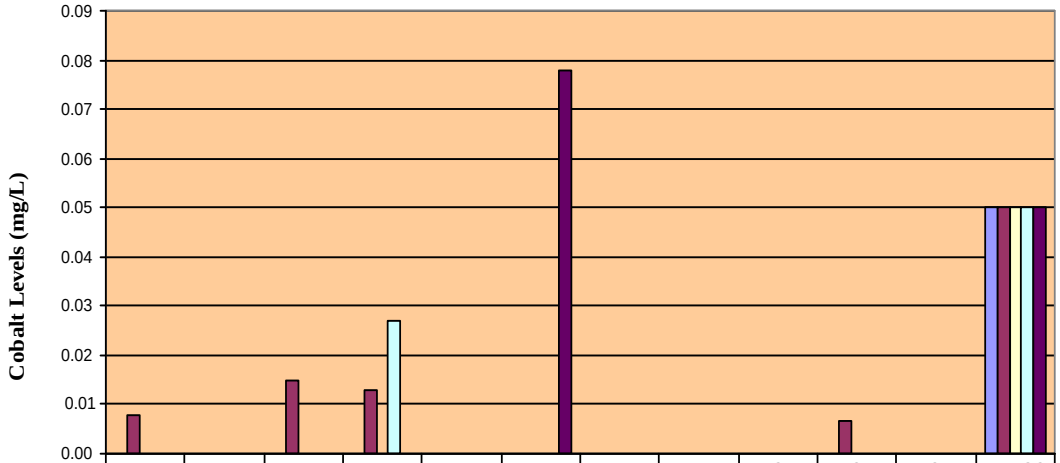
HELSTF Diesel Spill
Groundwater sampling Results for Chromium



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQCC Std.
Spring 1999	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.06	0.05
Spring 2000	0.11	0.01	0.01	0.04	0.02	2.30	0.06	0.38	0.00	0.12	0.00	0.05
Fall 2000	0.00	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Spring 2001	0.00	0.00	0.00	0.02	0.00	0.94	0.16	0.12	0.00	0.00	0.00	0.05
Fall 2001	0.00	0.00	0.00	0.00	0.00	29.00	0.04	0.33	0.00	0.00	0.00	0.05

Well Name

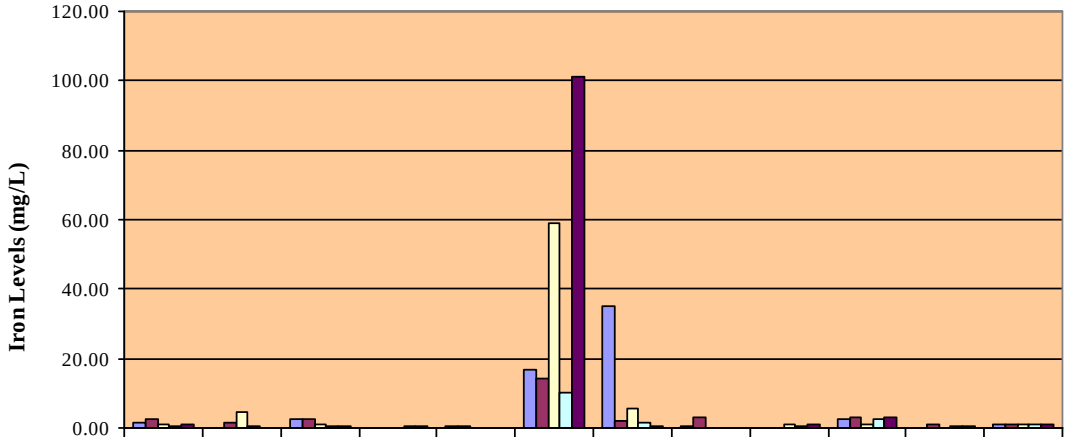
HELSTF Diesel Spill
Groundwater sampling Results for Cobalt



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQCC Std.
Spring 1999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Spring 2000	0.01	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.05
Fall 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Spring 2001	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Fall 2001	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.05

Well Name

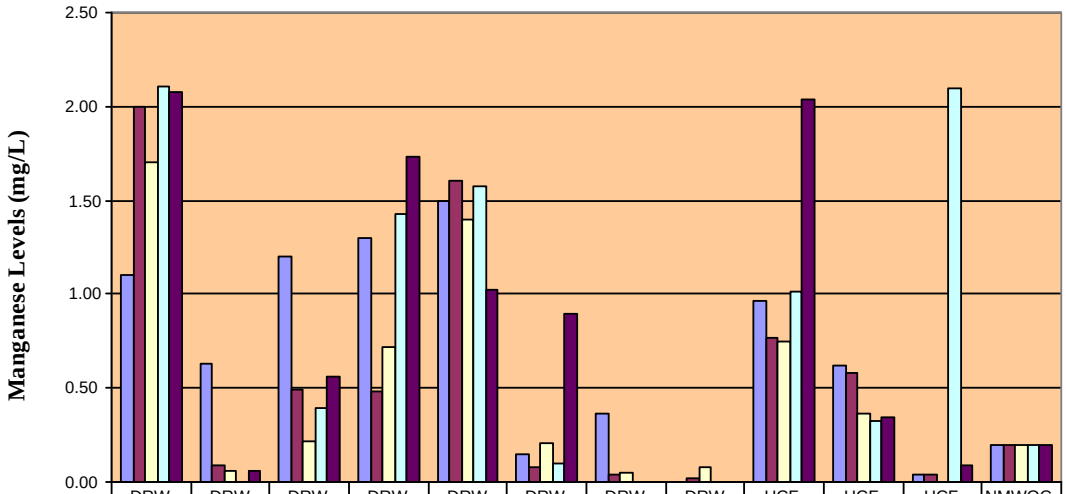
HELSTF Diesel Spill
Groundwater sampling Results for Iron



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQCC Std.
Spring 1999	1.50	0.00	2.60	0.00	0.28	17.00	35.00	0.37	0.00	2.70	0.00	1.0
Spring 2000	2.40	1.40	2.40	0.20	0.31	14.00	2.00	3.00	0.00	3.20	0.78	1.0
Fall 2000	1.10	4.50	1.10	0.00	0.22	59.00	5.60	0.00	0.88	0.93	0.00	1.0
Spring 2001	0.66	0.48	0.35	0.29	0.18	10.10	1.45	0.14	0.30	2.44	0.66	1.0
Fall 2001	1.27	0.21	0.41	0.43	0.00	101.00	0.49	0.09	0.90	2.89	0.26	1.0

Well Name

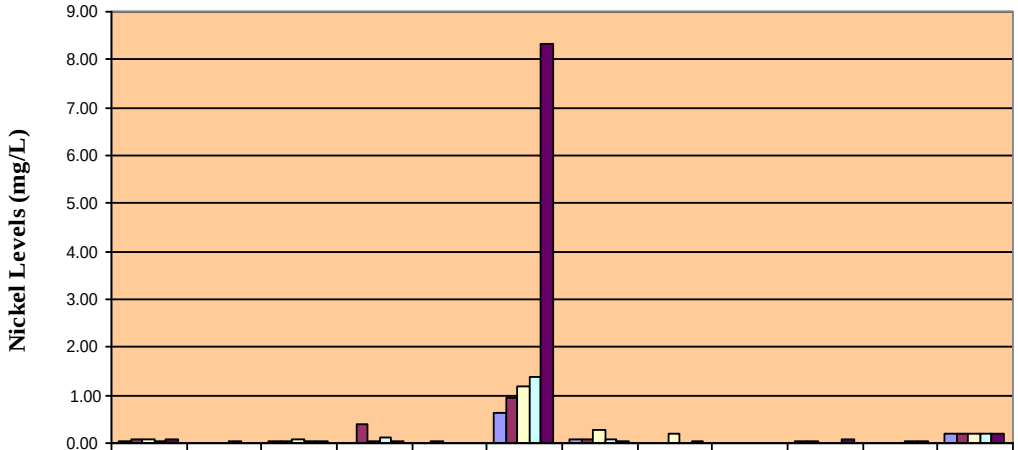
HELSTF Diesel Spill
Groundwater sampling Results for Manganese



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQCC Std.
Spring 1999	1.10	0.63	1.20	1.30	1.50	0.15	0.36	0.00	0.96	0.62	0.04	0.2
Spring 2000	2.00	0.09	0.49	0.48	1.60	0.08	0.04	0.02	0.77	0.58	0.04	0.2
Fall 2000	1.70	0.06	0.22	0.72	1.40	0.21	0.05	0.08	0.75	0.36	0.00	0.2
Spring 2001	2.11	0.00	0.39	1.43	1.57	0.10	0.00	0.00	1.01	0.32	2.10	0.2
Fall 2001	2.08	0.06	0.56	1.73	1.02	0.90	0.00	0.00	2.04	0.34	0.09	0.2

Well Name

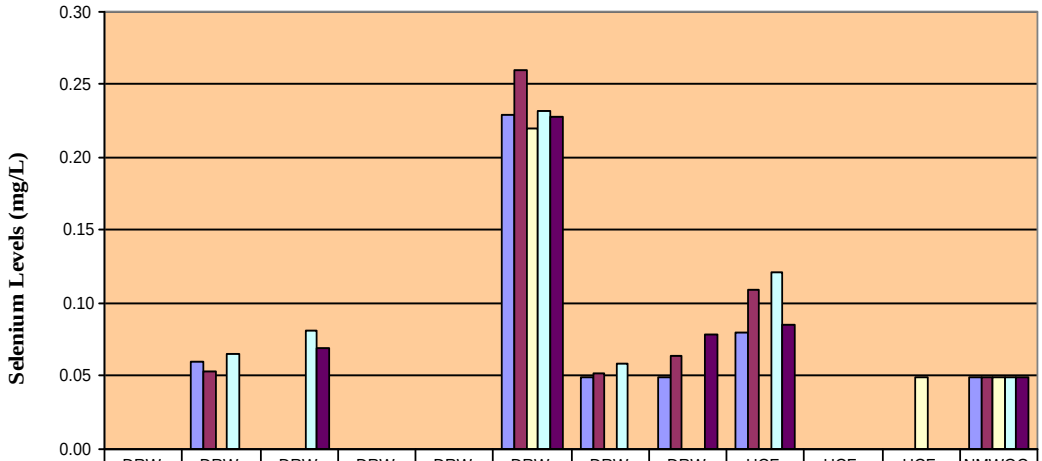
HELSTF Diesel Spill
Groundwater sampling Results for Nickel



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQ CC Std.
Spring 1999	0.02	0.00	0.03	0.00	0.00	0.64	0.08	0.01	0.00	0.03	0.00	0.2
Spring 2000	0.09	0.02	0.05	0.38	0.03	0.94	0.08	0.01	0.00	0.05	0.01	0.2
Fall 2000	0.07	0.00	0.06	0.05	0.00	1.20	0.27	0.19	0.00	0.00	0.00	0.2
Spring 2001	0.06	0.02	0.05	0.10	0.00	1.40	0.08	0.00	0.00	0.02	0.06	0.2
Fall 2001	0.08	0.00	0.06	0.04	0.00	8.32	0.04	0.06	0.00	0.08	0.03	0.2

Well Name

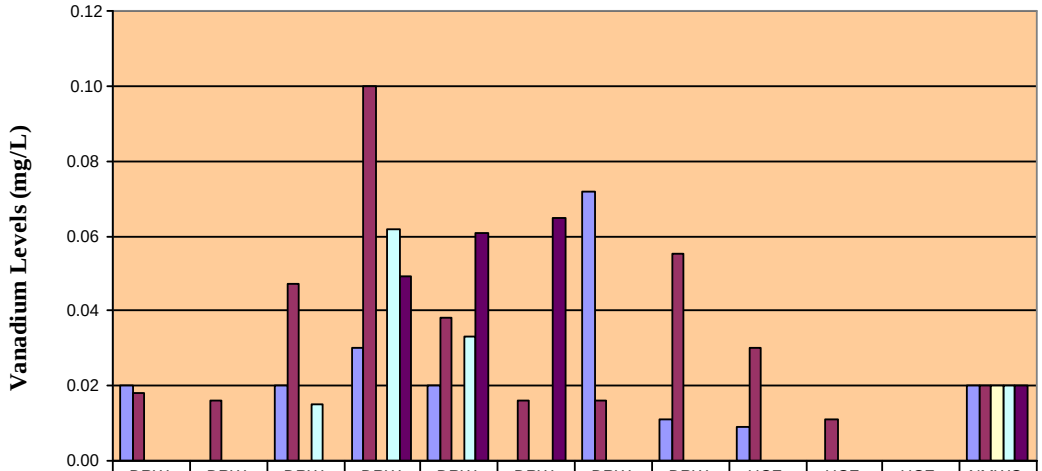
HELSTF Diesel Spill
Groundwater sampling Results for Selenium



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQC C Std.
Spring 1999	0.00	0.06	0.00	0.00	0.00	0.23	0.05	0.05	0.08	0.00	0.00	0.05
Spring 2000	0.00	0.05	0.00	0.00	0.00	0.26	0.05	0.06	0.11	0.00	0.00	0.05
Fall 2000	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.05	0.05
Spring 2001	0.00	0.07	0.08	0.00	0.00	0.23	0.06	0.00	0.12	0.00	0.00	0.05
Fall 2001	0.00	0.00	0.07	0.00	0.00	0.23	0.00	0.08	0.08	0.00	0.00	0.05

Well Name

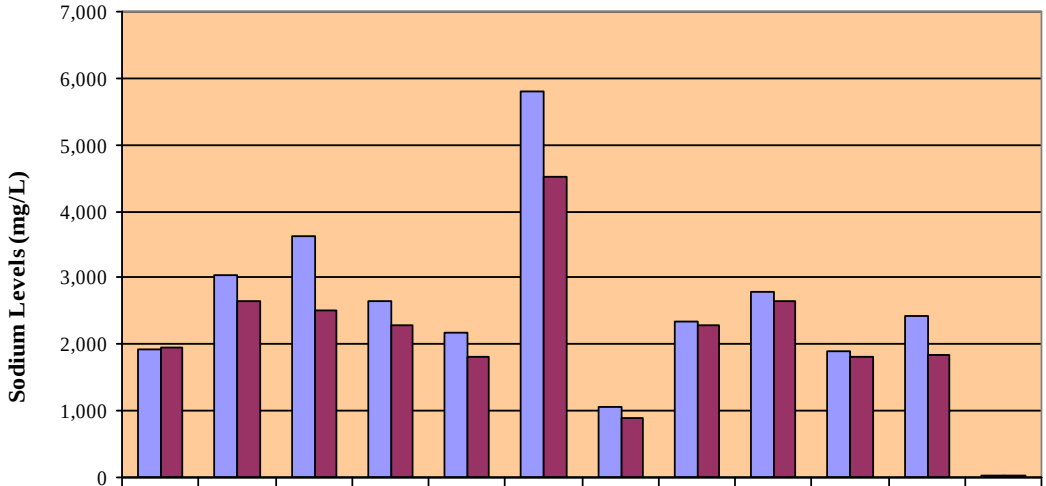
HELSTF Diesel Spill
Groundwater sampling Results for Vanadium



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQ CC Std.
Spring 1999	0.02	0.00	0.02	0.03	0.02	0.00	0.07	0.01	0.01	0.00	0.00	0.02
Spring 2000	0.02	0.02	0.05	0.10	0.04	0.02	0.02	0.06	0.03	0.01	0.00	0.02
Fall 2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Spring 2001	0.00	0.00	0.02	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Fall 2001	0.00	0.00	0.00	0.05	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.02

Well Name

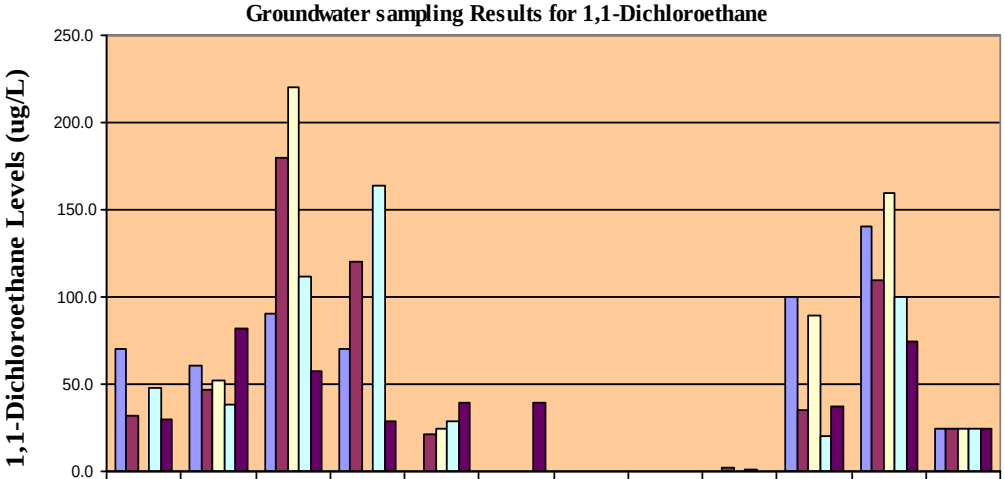
HELSTF Diesel Spill
Groundwater Sampling Results for Sodium



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQ CC Std.
Spring 2001	1,920	3,040	3,613	2,654	2,184	5,800	1,060	2,340	2,801	1,900	2,432	20
Fall 2001	1,955	2,651	2,518	2,284	1,807	4,517	888	2,285	2,653	1,814	1,843	20

Well Name

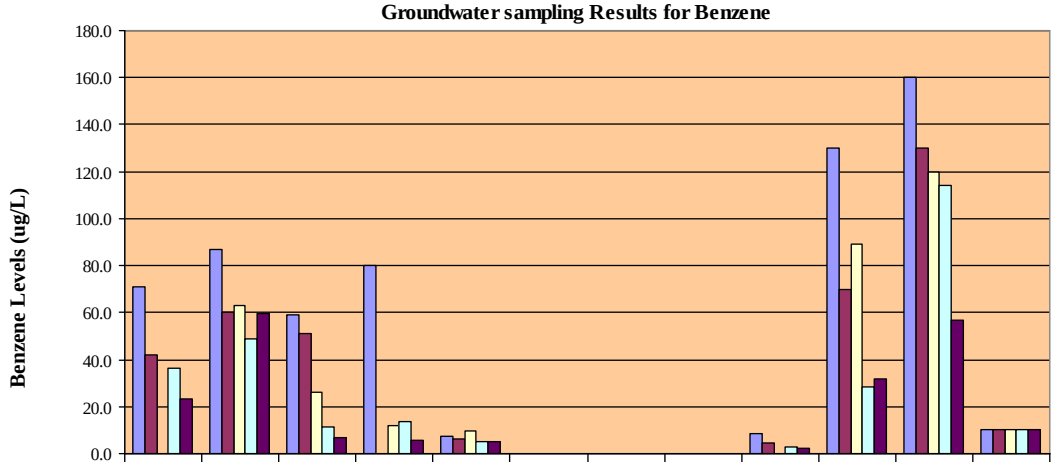
HELSTF Diesel Spill
Groundwater sampling Results for 1,1-Dichloroethane



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQC Std.
Spring 1999	70.0	61.0	90.0	70.0	0.0	0.0	0.0	0.0	0.0	100.0	140.0	25
Spring 2000	32.0	47.0	180.0	120.0	21.0	0.0	0.0	0.0	2.0	35.0	110.0	25
Fall 2000	0.0	52.0	220.0	0.0	24.0	0.0	0.0	0.0	0.0	89.0	160.0	25
Spring 2001	48.1	38.5	112.0	164.0	28.7	0.0	0.0	0.0	1.2	20.1	99.5	25
Fall 2001	30.1	82.4	57.2	29.0	39.0	39.0	0.0	0.0	0.0	37.1	74.7	25

Well Name

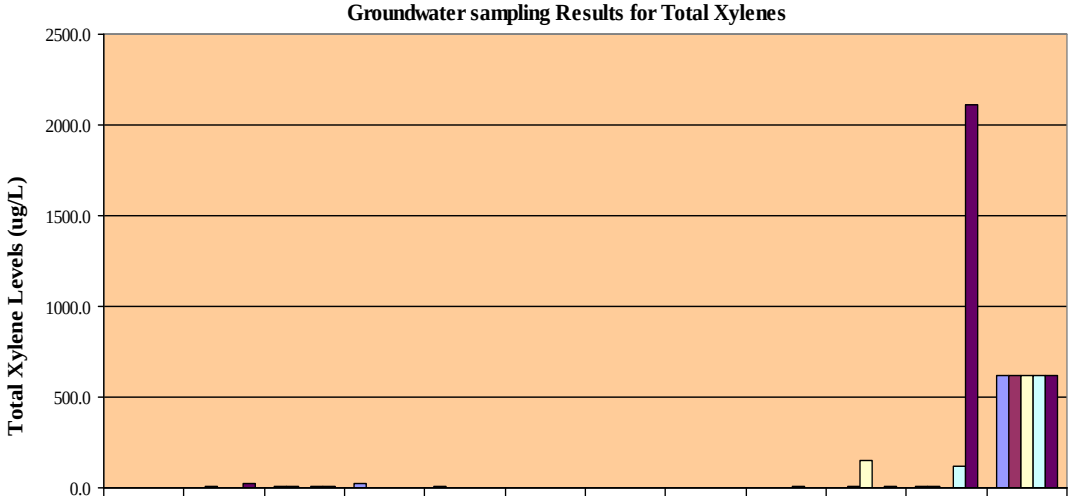
HELSTF Diesel Spill
Groundwater sampling Results for Benzene



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQ CC Std.
Spring 1999	71.0	87.0	59.0	80.0	7.3	0.0	0.0	0.0	8.3	130.0	160.0	10
Spring 2000	42.0	60.0	51.0	0.0	6.5	0.0	0.0	0.0	4.5	70.0	130.0	10
Fall 2000	0.0	63.0	26.0	12.0	9.5	0.0	0.0	0.0	0.0	89.0	120.0	10
Spring 2001	36.6	49.0	11.6	13.9	5.2	0.0	0.0	0.0	2.9	28.5	114.0	10
Fall 2001	23.1	59.6	6.9	5.5	4.9	0.0	0.0	0.0	2.0	31.6	56.5	10

Well Name

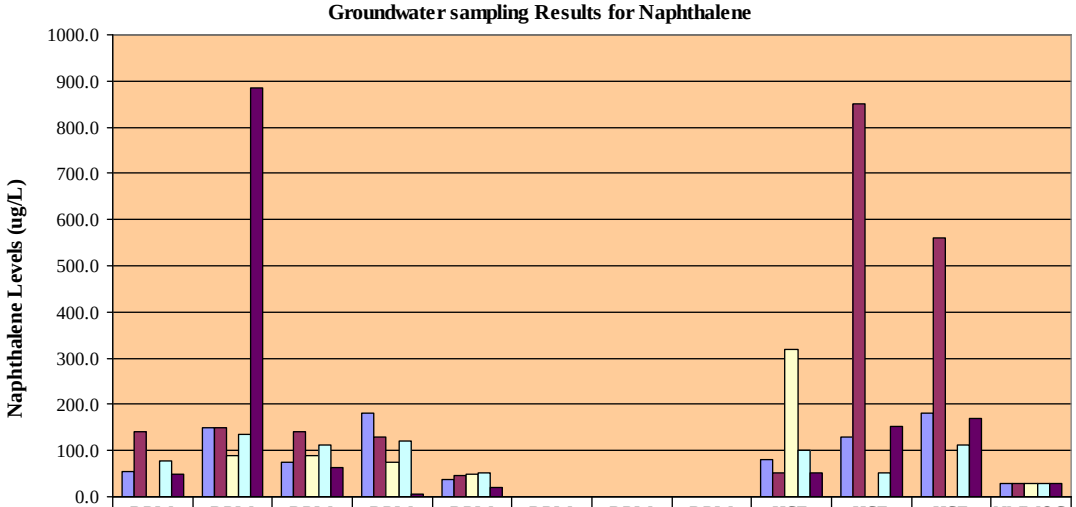
HELSTF Diesel Spill
Groundwater sampling Results for Total Xylenes



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQC Std.
Spring 1999	1.2	2.3	6.5	23.0	6.1	0.0	0.0	0.0	1.6	1.9	5.7	620
Spring 2000	1.2	4.5	9.9	0.0	1.5	0.0	0.0	0.0	1.1	4.2	11.0	620
Fall 2000	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	150.0	0.0	620
Spring 2001	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	4.1	0.0	122.4	620
Fall 2001	0.0	24.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0	9.2	2108.0	620

Well Name

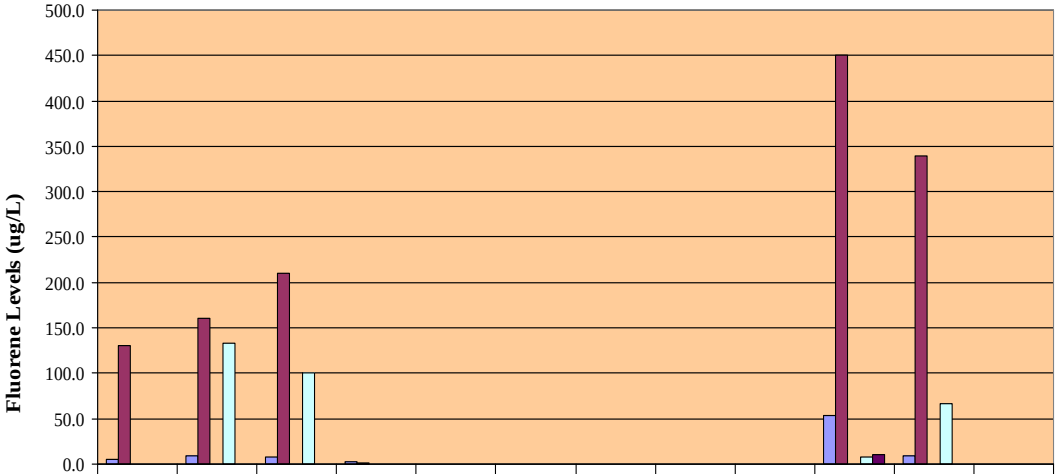
HELSTF Diesel Spill
Groundwater sampling Results for Naphthalene



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQC Std.
Spring 1999	55.0	150.0	75.0	180.0	38.0	0.0	0.0	0.0	80.0	130.0	180.0	30
Spring 2000	140.0	150.0	140.0	130.0	45.0	0.0	0.0	0.0	52.0	850.0	560.0	30
Fall 2000	0.0	88.0	89.0	75.0	50.0	0.0	0.0	0.0	320.0	0.0	0.0	30
Spring 2001	77.9	135.0	113.0	121.0	53.0	0.0	0.0	0.0	101.0	50.3	113.0	30
Fall 2001	48.7	885.0	62.6	6.7	18.7	0.0	0.0	0.0	52.9	151.0	169.0	30

Well Name

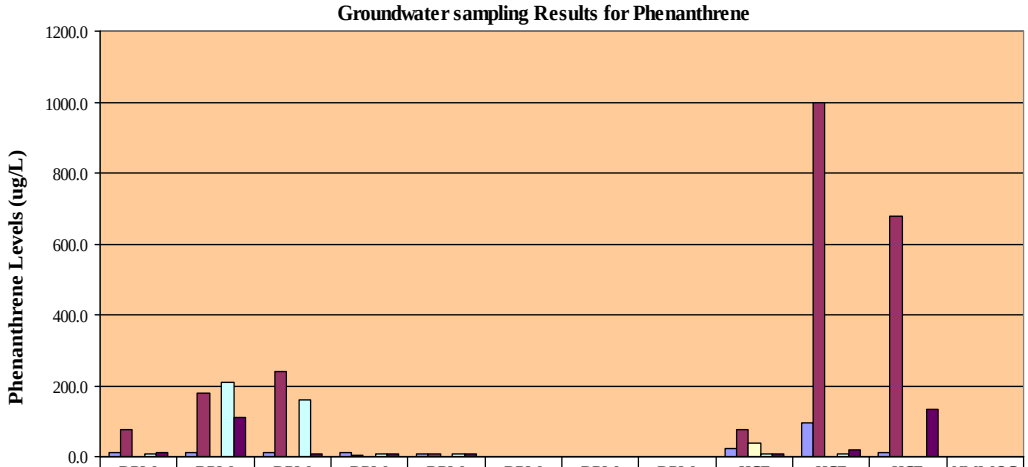
HELSTF Diesel Spill
Groundwater sampling Results for Fluorene



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQCC Std.
Spring 1999	5.0	9.0	8.0	2.0	0.0	0.0	0.0	0.0	0.0	53.0	9.0	0
Spring 2000	130.0	160.0	210.0	1.6	0.0	0.0	0.0	0.0	0.0	450.0	340.0	0
Fall 2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Spring 2001	0.0	133.0	101.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	66.0	0
Fall 2001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0

Well Name

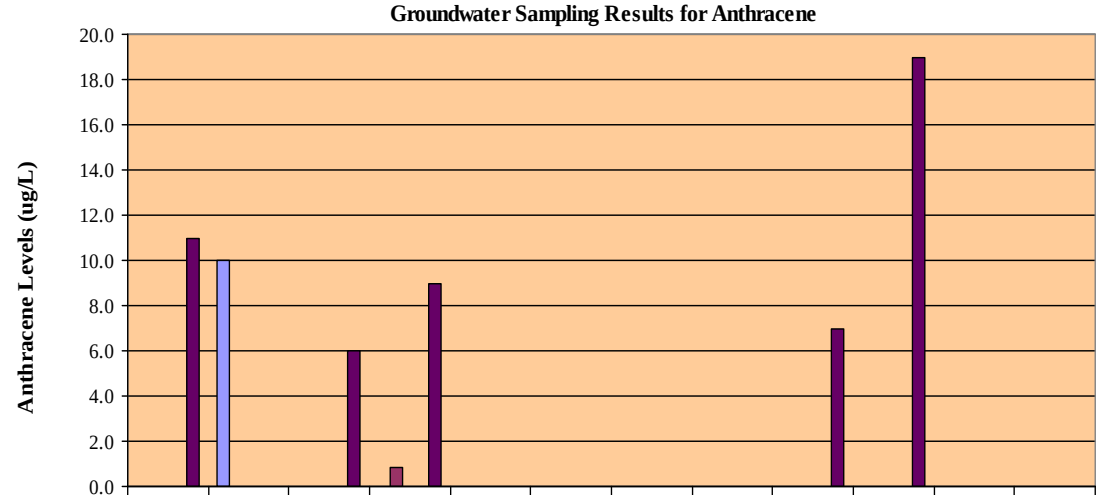
HELSTF Diesel Spill
Groundwater sampling Results for Phenanthrene



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQC C Std.
Spring 1999	10.0	13.0	13.0	10.0	8.0	0.0	0.0	0.0	21.0	96.0	10.0	0
Spring 2000	75.0	180.0	240.0	4.7	7.7	0.0	0.0	0.0	75.0	1000.0	680.0	0
Fall 2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.4	0.0	0.0	0
Spring 2001	8.0	210.0	161.0	8.0	9.0	0.0	0.0	0.0	9.0	9.0	0.0	0
Fall 2001	11.0	110.0	6.0	8.0	6.0	0.0	0.0	0.0	6.0	18.0	133.0	0

Well Name

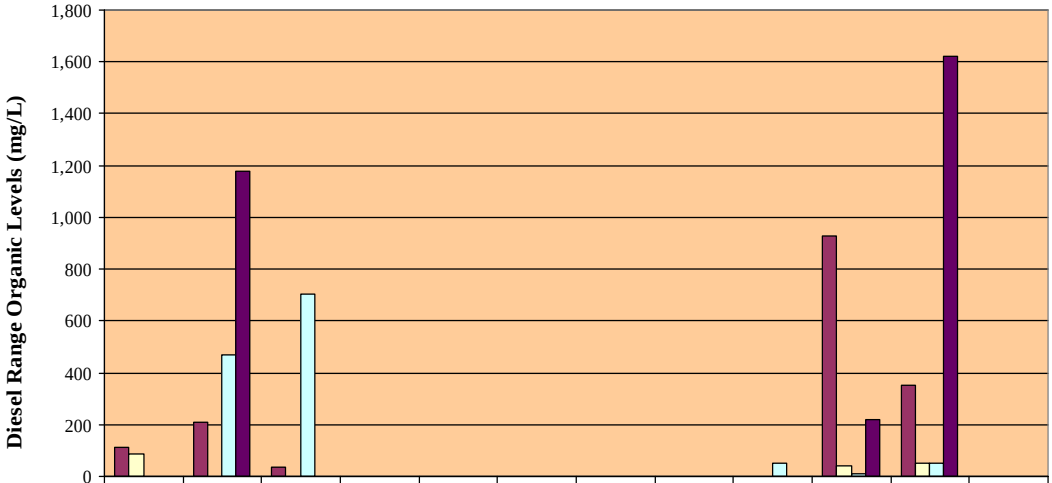
HELSTF Diesel Spill
Groundwater Sampling Results for Anthracene



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQC Std.
Spring 1999	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Spring 2000	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Fall 2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Spring 2001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Fall 2001	11.0	0.0	6.0	9.0	0.0	0.0	0.0	0.0	7.0	19.0	0.0	0

Well Name

HELSTF Diesel Spill
Groundwater sampling Results for Diesel Range Organics



	DRW -1	DRW -2	DRW -3	DRW -4	DRW -5	DRW -12	DRW -13	DRW -16	HCF -1	HCF -5	HCF -7	NMWQC Std.
Spring 2000	110	210	34	0	0	0	0	0	0	930	350	0
Fall 2000	87	0	0	0	0	0	0	0	0	41	50	0
Spring 2001	0	471	705	0	0	0	0	0	53	10	52	0
Fall 2001	0	1,180	0	0	0	0	0	0	0	221	1,620	0

Well Name

APPENDIX B

SAMPLING PROCEDURES

SAMPLE PROCEDURES

Upon arrival at a well, field personnel record field observations and other pertinent information in a field logbook. Included in the log are the date, names of sampling team members, time of arrival, well identification number, air temperature, relative humidity, wind direction and approximate speed, and general weather condition (i.e. cloudy, rain or sun, etc.).

Following the entry of preliminary information to the log, the well cap is opened and the depth to water is determined. The depth to water is measured with an electric water level probe and recorded in the logbook. Total depth of the well is determined either by a direct measurement with the probe, or from field information sheets that are prepared from original well construction "as built" drawings before going into the field.

Well volume is calculated by subtracting the depth to water from the total depth of the well to obtain a value for the height (h) of the water column; the value "h" is then used in the formula for the volume (in gallons) of a cylinder ($V= d^2h[0.041]$: where d^2 is the diameter of the well casing in inches, squared, and the constant 0.041 is derived from π [22/7] and the conversion factor for volume in cubic feet to gallons[7.4805]). Prior to sample collection, three times the well volume of groundwater (V) is removed from the well. Purging the well in this manner is done to ensure that samples are representative of groundwater from the formation rather than condensation or stagnant water.

Water quality measurements are obtained with a calibrated, decontaminated Horiba water quality meter. The probe is inserted into the well in front of (below) the pump. During purging, the Horiba meter is continuously monitored and the data is recorded as water is drawn into the well. Data is recorded for time, volume, temperature, pH, conductivity and appearance and recorded in a bound field logbook.

Decontamination is performed on site with an Alconox/tap water solution and a tap water rinse. Any down-hole equipment (water level probe, pumps, tubing, probe meters and wires) are decontaminated with the Alconox/tap water solution and rinsed with tap water. All decontamination and purge water is stored on-site in sealed 55-gallon drums with labels indicating that disposal analysis is pending. Disposal of the waste generated during sampling is properly disposed of off site.

Each sample is collected in new, certified clean containers. Preservatives are added to the water when required by the analytical method, until the proper pH is reached; less than 2 when preserving with acids and greater than 13 when preserving with bases. Sample fractions to be analyzed for dissolved constituents are field filtered by pumping through a 0.45-micron disposable filter with a peristaltic pump and clean tygon tubing. Sample containers are labeled with sample name and number, sealed in a plastic bag, and packed in ice so as not to exceed a temperature of 4° C (39.2^{o} F) during transport to the laboratory. A chain-of-custody form is completed, sealed in a plastic bag, and placed inside the ice chest. Copies of the chain-of-custody forms for these sampling events are included in the Appendices. Sample coolers are sealed with chain-of-custody tape and submitted to the analytical laboratory via lab courier or overnight delivery service.

APPENDIX C

PURGE AND DECONTAMINATION WATER DISPOSAL

This information is not presently available. Upon receipt of disposal documentation manifests, MEVATEC will submit them under a separate cover.

APPENDIX D

CHEMICAL ANALYTICAL DATA
FALL 2001 SAMPLING EVENT

Mevatec

Corporation

700 A22/800 HH

Project ID: 700 A22/800 HH
Project Manager: Karen Costa

Table of Contents

Sample Summary

Requested Analyses

Subbed Analyses Sample ID Index

Analytical Results:

Total Metals Results and Quality Control

Dissolved Salts Results and Quality Control

Mercury Results and Quality Control

Dissolved Metals Results and Quality Control

Volatile Organic Samples and Trip Blank Results
Volatile Organic Samples and Trip Blank Quality Control

Semi-Volatile Organic Results and Quality Control

Explosive Results and Quality Control

TOC Results and Quality Control

DRO Results and Quality Control

TDS Results and Quality Control

pH Results and Quality Control

Specific Conductance Results and Quality Control

Alkalinity Results and Quality Control

Dissolved Ion Results and Quality Control

Ammonia Results and Quality Control

TKN Results and Quality Control

Hexavalent Chromium Results and Quality Control

Subbed Analysis Results and Quality Control
- Ammonium Perchlorate

Chains of Custody

Mevatec 700 A22 & 800 HH Analyte List

SAMPLE SUMMARY

CLIENT: Mevatec Corporation
PROJECT ID: 700 A22/800 HH

TraceAnalysis ID	MEVATEC ID	Sample Date	Matrix	Temperature Upon Receipt
175643	0154-DRW03-0701	7/23/01	WATER	4 °C
175644	0154-DRW03-0701-TB	7/23/01	WATER	4 °C
175645	0154-DRW03-0701-QC	7/23/01	WATER	4 °C
175646	0154-DRW03-0701-QC-TB	7/23/01	WATER	4 °C
175647	0154-DRW04-0701	7/23/01	WATER	4 °C
175648	0154-DRW04-0701-TB	7/23/01	WATER	4 °C
175649	0154-HCF05-0701	7/23/01	WATER	3 °C
175650	0154-HCF05-0701-TB	7/23/01	WATER	3 °C
175651	0154-HCF05-0701-QC	7/23/01	WATER	4 °C
175652	0154-HCF05-0701-QC-TB	7/23/01	WATER	4 °C
175653	0154-HCF07-0701	7/23/01	WATER	4 °C
175654	0154-HCF07-0701-TB	7/23/01	WATER	4 °C
175694	0154-DRW01-0701	7/24/01	WATER	3 °C
175695	0154-DRW01-0701-TB	7/24/01	WATER	3 °C
175696	0154-DRW02-0701	7/24/01	WATER	3 °C
175697	0154-DRW02-0701-TB	7/24/01	WATER	3 °C
175698	0154-DRW05-0701	7/24/01	WATER	3 °C
175699	0154-DRW05-0701-TB	7/24/01	WATER	3 °C
175700	0154-DRW12-0701	7/24/01	WATER	3 °C
175701	0154-DRW12-0701-TB	7/24/01	WATER	3 °C
175702	0154-DRW13-0701	7/24/01	WATER	3 °C
175703	0154-DRW13-0701-TB	7/24/01	WATER	3 °C
175854	0154-HCF01-0701	7/25/01	WATER	3 °C
175855	0154-HCF01-0701-TB	7/25/01	WATER	3 °C
175856	0154-DRW16-0701	7/25/01	WATER	3 °C
175857	0154-DRW16-0701-TB	7/25/01	WATER	3 °C

Requested Analysis for 700 A22/800 HH

Dissolved Ions

Chloride
Fluoride
Sulfate
Nitrate
Nitrite
Bromide
Ammonium Perchlorate

Water Quality

pH
Specific Conductance
Residue, Dissolved (TDS)
Alkalinity

Nutrients

Amonnia (NH_3+NH_4)
Total Kjedahl Nitrogen (TKN)
Total Phosphorous

Total Metals

Aluminum	Chromium	Manganese	Silver
Arsenic	Chromium $^{6+}$	Mercury	Strontium
Barium	Cobalt	Molybdenum	Tin
Beryllium	Copper	Nickel	Vanadium
Boron	Iron	Selenium	Zinc
Cadmium	Lead	Silicon	

Dissolved Metals

Aluminum	Chromium	Manganese	Sodium
Arsenic	Cobalt	Molybdenum	Strontium
Barium	Copper	Nickel	Tin
Beryllium	Iron	Potassium	Vanadium
Boron	Lead	Selenium	Zinc
Cadmium	Lithium	Silicon	
Calcium	Magnesium	Silver	

Organics

Volatiles
SemiVolatiles
Explosive Residues
TOC
Petroleum Hydrocarbons (DRO)

SUBBED ANALYSIS SAMPLE ID INDEX

TraceAnalysis	ATEL(Ammonium Perchlorate)
175643	073001008
175645	073001009
175647	073001010
175649	073001011
175651	073001012
175653	073001013
175694	073001003
175696	073001004
175698	073001005
175700	073001006
175702	073001007
175854	080301011
175856	080301010

* The analyses for Dissolved Ions, pH, Specific Conductance, TDS, and Alkalinity were performed in the TraceAnalysis laboratory in El Paso, Texas. The Sample ID Index is the same as that of TraceAnalysis in Lubbock, Texas.

Total Metals Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 29, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 16 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC12918	Date Analyzed:	7/31/01
Analyst:	LDB	Preparation Method:	E 3010A	Prep Batch:	PB10993	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		<0.1	mg/L	1	0.1
Total Arsenic		0.119	mg/L	1	0.05
Total Barium		<0.1	mg/L	1	0.1
Total Beryllium		<0.0025	mg/L	1	0.0025
Total Boron		7.65	mg/L	100	0.01
Total Cadmium		<0.025	mg/L	1	0.025
Total Chromium		<0.01	mg/L	1	0.01
Total Cobalt		<0.025	mg/L	1	0.025
Total Copper		0.0446	mg/L	1	0.0125
Total Iron		0.41	mg/L	1	0.05
Total Lead		0.0157	mg/L	1	0.01
Total Manganese		0.56	mg/L	1	0.025
Total Molybdenum		0.469	mg/L	1	0.05
Total Nickel		0.059	mg/L	1	0.025
Total Phosphorous	[1]	0.327	mg/L	1	0.2
Total Selenium		0.0695	mg/L	1	0.05
Total Silica		20.9	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.0125
Total Strontium		4.82	mg/L	1	0.005
Total Tin		<0.025	mg/L	1	0.025
Total Vanadium		<0.025	mg/L	1	0.025
Total Zinc		0.157	mg/L	1	0.025

Sample: 175645 - 0154-DRW03-0701-QC

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC12918	Date Analyzed:	7/31/01
Analyst:	LDB	Preparation Method:	E 3010A	Prep Batch:	PB10993	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		<0.1	mg/L	1	0.1
Total Arsenic		0.0899	mg/L	1	0.05
Total Barium		0.106	mg/L	1	0.1
Total Beryllium		<0.0025	mg/L	1	0.0025
Total Boron		5.94	mg/L	100	0.01
Total Cadmium		<0.025	mg/L	1	0.025
Total Chromium		<0.01	mg/L	1	0.01
Total Cobalt		<0.025	mg/L	1	0.025
Total Copper		0.0125	mg/L	1	0.0125
Total Iron		0.483	mg/L	1	0.05
Total Lead		0.0164	mg/L	1	0.01
Total Manganese		0.588	mg/L	1	0.025
Total Molybdenum		0.355	mg/L	1	0.05
Total Nickel		0.0573	mg/L	1	0.025
Total Phosphorous	[2]	0.326	mg/L	1	0.2

Continued ...

[1] Possible laboratory contamination due to similar concentrations of analyte being found in method blank.
[2] Possible laboratory contamination due to similar concentrations of analyte being found in method blank.

... Continued Sample: 175645 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Selenium		0.0573	mg/L	1	0.05
Total Silica		12.1	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.0125
Total Strontium		4.41	mg/L	1	0.005
Total Tin		<0.025	mg/L	1	0.025
Total Vanadium		<0.025	mg/L	1	0.025
Total Zinc		<0.025	mg/L	1	0.025

Sample: 175647 - 0154-DRW04-0701

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC12918 Date Analyzed: 7/31/01
Analyst: LDB Preparation Method: E 3010A Prep Batch: PB10993 Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		<0.1	mg/L	1	0.1
Total Arsenic		<0.05	mg/L	1	0.05
Total Barium		<0.1	mg/L	1	0.1
Total Beryllium		<0.0025	mg/L	1	0.0025
Total Boron		6.56	mg/L	100	0.01
Total Cadmium		<0.025	mg/L	1	0.025
Total Chromium		<0.01	mg/L	1	0.01
Total Cobalt		<0.025	mg/L	1	0.025
Total Copper		<0.0125	mg/L	1	0.0125
Total Iron		0.425	mg/L	1	0.05
Total Lead		<0.01	mg/L	1	0.01
Total Manganese		1.73	mg/L	1	0.025
Total Molybdenum		0.118	mg/L	1	0.05
Total Nickel		0.0356	mg/L	1	0.025
Total Phosphorous	[3]	0.311	mg/L	1	0.2
Total Selenium		<0.05	mg/L	1	0.05
Total Silica		18.7	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.0125
Total Strontium		4.24	mg/L	1	0.005
Total Tin		<0.025	mg/L	1	0.025
Total Vanadium		0.0492	mg/L	1	0.025
Total Zinc		<0.025	mg/L	1	0.025

Sample: 175649 - 0154-HCF05-0701

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC12918 Date Analyzed: 7/31/01
Analyst: LDB Preparation Method: E 3010A Prep Batch: PB10993 Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		<0.1	mg/L	1	0.1
Total Arsenic		<0.05	mg/L	1	0.05
Total Barium		<0.1	mg/L	1	0.1
Total Beryllium		<0.0025	mg/L	1	0.0025
Total Boron		7.26	mg/L	100	0.01
Total Cadmium		<0.025	mg/L	1	0.025
Total Chromium		<0.01	mg/L	1	0.01
Total Cobalt		<0.025	mg/L	1	0.025

Continued ...

[3]Possible laboratory contamination due to similar concentrations of analyte being found in method blank.

... *Continued* Sample: 175649 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Copper		<0.0125	mg/L	1	0.0125
Total Iron		2.89	mg/L	1	0.05
Total Lead		<0.01	mg/L	1	0.01
Total Manganese		0.344	mg/L	1	0.025
Total Molybdenum		0.11	mg/L	1	0.05
Total Nickel		0.0785	mg/L	1	0.025
Total Phosphorous	[4]	0.258	mg/L	1	0.2
Total Selenium		<0.05	mg/L	1	0.05
Total Silica		16.1	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.0125
Total Strontium		3.39	mg/L	1	0.005
Total Tin		<0.025	mg/L	1	0.025
Total Vanadium		<0.025	mg/L	1	0.025
Total Zinc		<0.025	mg/L	1	0.025

Sample: 175651 - 0154-HCF05-0701-QC

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC12918	Date Analyzed:	7/31/01
Analyst:	LDB	Preparation Method:	E 3010A	Prep Batch:	PB10993	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		<0.1	mg/L	1	0.1
Total Arsenic		<0.05	mg/L	1	0.05
Total Barium		<0.1	mg/L	1	0.1
Total Beryllium		<0.0025	mg/L	1	0.0025
Total Boron		7.05	mg/L	100	0.01
Total Cadmium		<0.025	mg/L	1	0.025
Total Chromium		0.0326	mg/L	1	0.01
Total Cobalt		<0.025	mg/L	1	0.025
Total Copper		<0.0125	mg/L	1	0.0125
Total Iron		3.37	mg/L	1	0.05
Total Lead		<0.01	mg/L	1	0.01
Total Manganese		0.358	mg/L	1	0.025
Total Molybdenum		0.119	mg/L	1	0.05
Total Nickel		0.13	mg/L	1	0.025
Total Phosphorous	[5]	0.236	mg/L	1	0.2
Total Selenium		<0.05	mg/L	1	0.05
Total Silica		19.1	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.0125
Total Strontium		3.49	mg/L	1	0.005
Total Tin		<0.025	mg/L	1	0.025
Total Vanadium		<0.025	mg/L	1	0.025
Total Zinc		<0.025	mg/L	1	0.025

Sample: 175653 - 0154-HCF07-0701

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC12918	Date Analyzed:	7/31/01
Analyst:	LDB	Preparation Method:	E 3010A	Prep Batch:	PB10993	Date Prepared:	7/26/01

Continued ...

[4]Possible laboratory contamination due to similar concentrations of analyte being found in method blank.
[5]Possible laboratory contamination due to similar concentrations of analyte being found in method blank.

... Continued Sample: 175653 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		<0.1	mg/L	1	0.1
Total Arsenic		<0.05	mg/L	1	0.05
Total Barium		<0.1	mg/L	1	0.1
Total Beryllium		<0.0025	mg/L	1	0.0025
Total Boron		7.56	mg/L	100	0.01
Total Cadmium		<0.025	mg/L	1	0.025
Total Chromium		<0.01	mg/L	1	0.01
Total Cobalt		<0.025	mg/L	1	0.025
Total Copper		<0.0125	mg/L	1	0.0125
Total Iron		0.258	mg/L	1	0.05
Total Lead		<0.01	mg/L	1	0.01
Total Manganese		0.0892	mg/L	1	0.025
Total Molybdenum		0.128	mg/L	1	0.05
Total Nickel		0.0273	mg/L	1	0.025
Total Phosphorous	6	0.436	mg/L	1	0.2
Total Selenium		<0.05	mg/L	1	0.05
Total Silica		16	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.0125
Total Strontium		3.18	mg/L	1	0.005
Total Tin		<0.025	mg/L	1	0.025
Total Vanadium		<0.025	mg/L	1	0.025
Total Zinc		<0.025	mg/L	1	0.025

Sample: 175694 - 0154-DRW01-0701

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC12979	Date Analyzed:	7/31/01
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB11049	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		<0.1	mg/L	1	0.1
Total Arsenic		0.0701	mg/L	1	0.05
Total Barium		<0.1	mg/L	1	0.1
Total Beryllium		<0.0025	mg/L	1	0.0025
Total Boron		7	mg/L	100	0.01
Total Cadmium		<0.025	mg/L	1	0.025
Total Chromium		<0.01	mg/L	1	0.01
Total Cobalt		<0.025	mg/L	1	0.025
Total Copper		<0.0125	mg/L	1	0.0125
Total Iron		1.27	mg/L	1	0.05
Total Lead		<0.01	mg/L	1	0.01
Total Manganese		2.08	mg/L	1	0.025
Total Molybdenum		<0.05	mg/L	1	0.05
Total Nickel		0.0829	mg/L	1	0.025
Total Phosphorous	7	0.271	mg/L	1	0.2
Total Selenium		<0.05	mg/L	1	0.05
Total Silica		19.9	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.0125
Total Strontium		3.9	mg/L	1	0.005
Total Tin		<0.025	mg/L	1	0.025

Continued ...

[6]Possible laboratory contamination due to similar concentration of analyte being found in method blank.
[7]Possible laboratory contamination due to similar concentration of analyte being found in method blank.

... Continued Sample: 175694 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Vanadium		<0.025	mg/L	1	0.025
Total Zinc		<0.025	mg/L	1	0.025

Sample: 175696 - 0154-DRW02-0701

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC12979 Date Analyzed: 7/31/01
Analyst: RR Preparation Method: E 3010A Prep Batch: PB11049 Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		<0.1	mg/L	1	0.1
Total Arsenic		<0.05	mg/L	1	0.05
Total Barium		<0.1	mg/L	1	0.1
Total Beryllium		<0.0025	mg/L	1	0.0025
Total Boron		6.66	mg/L	100	0.01
Total Cadmium		<0.025	mg/L	1	0.025
Total Chromium		<0.01	mg/L	1	0.01
Total Cobalt		<0.025	mg/L	1	0.025
Total Copper		<0.0125	mg/L	1	0.0125
Total Iron		0.213	mg/L	1	0.05
Total Lead		<0.01	mg/L	1	0.01
Total Manganese		0.0586	mg/L	1	0.025
Total Molybdenum		0.233	mg/L	1	0.05
Total Phosphorous	[8]	0.441	mg/L	1	0.2
Total Selenium		<0.05	mg/L	1	0.05
Total Silica		16.5	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.0125
Total Strontium		3.69	mg/L	1	0.005
Total Tin		<0.025	mg/L	1	0.025
Total Vanadium		<0.025	mg/L	1	0.025
Total Zinc		<0.025	mg/L	1	0.025

Sample: 175698 - 0154-DRW05-0701

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC12979 Date Analyzed: 7/31/01
Analyst: RR Preparation Method: E 3010A Prep Batch: PB11049 Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		<0.1	mg/L	1	0.1
Total Arsenic		<0.05	mg/L	1	0.05
Total Barium		<0.1	mg/L	1	0.1
Total Beryllium		<0.0025	mg/L	1	0.0025
Total Boron		5.34	mg/L	100	0.01
Total Cadmium		<0.025	mg/L	1	0.025
Total Chromium		<0.01	mg/L	1	0.01
Total Cobalt		<0.025	mg/L	1	0.025
Total Copper		0.0158	mg/L	1	0.0125
Total Iron		<0.05	mg/L	1	0.05
Total Lead		<0.01	mg/L	1	0.01
Total Manganese		1.02	mg/L	1	0.025
Total Molybdenum		0.106	mg/L	1	0.05
Total Nickel		<0.025	mg/L	1	0.025

Continued ...

[8] Possible laboratory contamination due to similar concentration of analyte being found in method blank.

... *Continued* Sample: 175698 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Phosphorous	[9]	0.309	mg/L	1	0.2
Total Selenium		<0.05	mg/L	1	0.05
Total Silica		9.47	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.0125
Total Strontium		3.78	mg/L	1	0.005
Total Tin		<0.025	mg/L	1	0.025
Total Vanadium		0.0608	mg/L	1	0.025
Total Zinc		<0.025	mg/L	1	0.025

Sample: 175700 - 0154-DRW12-0701

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC12979	Date Analyzed:	7/31/01
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB11568	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		7.32	mg/L	1	0.1
Total Arsenic		0.0617	mg/L	1	0.05
Total Barium		<0.1	mg/L	1	0.1
Total Beryllium		<0.0025	mg/L	1	0.0025
Total Boron		3.1	mg/L	100	0.01
Total Cadmium		<0.025	mg/L	1	0.025
Total Chromium		29	mg/L	1	0.01
Total Cobalt		0.0779	mg/L	1	0.025
Total Copper		0.375	mg/L	1	0.0125
Total Iron		101	mg/L	1	0.05
Total Lead		0.0284	mg/L	1	0.01
Total Manganese		0.899	mg/L	1	0.025
Total Molybdenum		1.03	mg/L	1	0.05
Total Nickel		8.32	mg/L	1	0.025
Total Phosphorous	[10]	0.901	mg/L	1	0.2
Total Selenium		0.228	mg/L	1	0.05
Total Silica		25.7	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.0125
Total Strontium		9.16	mg/L	1	0.005
Total Tin		<0.025	mg/L	1	0.025
Total Vanadium		0.0647	mg/L	1	0.025
Total Zinc		0.0677	mg/L	1	0.025

Sample: 175702 - 0154-DRW13-0701

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC12979	Date Analyzed:	7/31/01
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB11049	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		0.199	mg/L	1	0.1
Total Arsenic		<0.05	mg/L	1	0.05
Total Barium		<0.1	mg/L	1	0.1
Total Beryllium		<0.0025	mg/L	1	0.0025
Total Boron		2.08	mg/L	100	0.01
Total Cadmium		<0.025	mg/L	1	0.025

Continued ...

[9]Possible laboratory contamination due to similar concentration of analyte being found in method blank.
[10]Possible laboratory contamination due to similar concentration of analyte being found in method blank.

... *Continued* Sample: 175702 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Chromium		0.0382	mg/L	1	0.01
Total Cobalt		<0.025	mg/L	1	0.025
Total Copper		<0.0125	mg/L	1	0.0125
Total Iron		0.486	mg/L	1	0.05
Total Lead		<0.01	mg/L	1	0.01
Total Manganese		<0.025	mg/L	1	0.025
Total Molybdenum		0.126	mg/L	1	0.05
Total Nickel		0.0439	mg/L	1	0.025
Total Phosphorous	[11]	0.261	mg/L	1	0.2
Total Selenium		<0.05	mg/L	1	0.05
Total Silica		13.4	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.0125
Total Strontium		8.02	mg/L	1	0.005
Total Tin		<0.025	mg/L	1	0.025
Total Vanadium		<0.025	mg/L	1	0.025
Total Zinc		<0.025	mg/L	1	0.025

Sample: 175854 - 0154-HCF01-0701

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC12979	Date Analyzed:	7/31/01
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB11049	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		<0.1	mg/L	1	0.1
Total Arsenic		<0.05	mg/L	1	0.05
Total Barium		<0.1	mg/L	1	0.1
Total Beryllium		<0.0025	mg/L	1	0.0025
Total Boron		7.51	mg/L	100	0.01
Total Cadmium		<0.025	mg/L	1	0.025
Total Chromium		<0.01	mg/L	1	0.01
Total Cobalt		<0.025	mg/L	1	0.025
Total Copper		<0.0125	mg/L	1	0.0125
Total Iron		0.903	mg/L	1	0.05
Total Lead		<0.01	mg/L	1	0.01
Total Manganese		2.04	mg/L	1	0.025
Total Molybdenum		0.777	mg/L	1	0.05
Total Nickel		<0.025	mg/L	1	0.025
Total Phosphorous	[12]	0.284	mg/L	1	0.2
Total Selenium		0.0847	mg/L	1	0.05
Total Silica		16.2	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.0125
Total Strontium		6.42	mg/L	1	0.005
Total Tin		<0.025	mg/L	1	0.025
Total Vanadium		<0.025	mg/L	1	0.025
Total Zinc		<0.025	mg/L	1	0.025

Sample: 175856 - 0154-DRW16-0701

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC12979	Date Analyzed:	7/31/01
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB11049	Date Prepared:	7/30/01

[11] Possible laboratory contamination due to similar concentration of analyte being found in method blank.
[12] Possible laboratory contamination due to similar concentration of analyte being found in method blank.

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		<0.1	mg/L	1	0.1
Total Arsenic		<0.05	mg/L	1	0.05
Total Barium		<0.1	mg/L	1	0.1
Total Beryllium		<0.0025	mg/L	1	0.0025
Total Boron		1.68	mg/L	100	0.01
Total Cadmium		<0.025	mg/L	1	0.025
Total Chromium		0.334	mg/L	1	0.01
Total Cobalt		<0.025	mg/L	1	0.025
Total Copper		<0.0125	mg/L	1	0.0125
Total Iron		0.0877	mg/L	1	0.05
Total Lead		<0.01	mg/L	1	0.01
Total Manganese		<0.025	mg/L	1	0.025
Total Molybdenum		<0.05	mg/L	1	0.05
Total Nickel		0.0581	mg/L	1	0.025
Total Phosphorous	[13]	0.266	mg/L	1	0.2
Total Selenium		0.0781	mg/L	1	0.05
Total Silica		22.6	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.0125
Total Strontium		8	mg/L	1	0.005
Total Tin		<0.025	mg/L	1	0.025
Total Vanadium		<0.025	mg/L	1	0.025
Total Zinc		<0.025	mg/L	1	0.025

[13] Possible laboratory contamination due to similar concentration of analyte being found in method blank.

Quality Control Report
Method Blank

Method Blank QCBatch: QC12918

Param	Flag	Results	Units	Reporting Limit
Total Aluminum		<0.1	mg/L	0.1
Total Arsenic		<0.05	mg/L	0.05
Total Barium		<0.1	mg/L	0.1
Total Beryllium		<0.0025	mg/L	0.0025
Total Boron		<0.01	mg/L	0.01
Total Cadmium		<0.025	mg/L	0.025
Total Chromium		<0.01	mg/L	0.01
Total Cobalt		<0.025	mg/L	0.025
Total Copper		<0.0125	mg/L	0.0125
Total Iron		<0.05	mg/L	0.05
Total Lead		<0.01	mg/L	0.01
Total Manganese		<0.025	mg/L	0.025
Total Molybdenum		<0.05	mg/L	0.05
Total Nickel		<0.025	mg/L	0.025
Total Phosphorous		0.244	mg/L	0.2
Total Selenium		<0.05	mg/L	0.05
Total Silica		0.0543	mg/L	0.05
Total Silver		<0.0125	mg/L	0.0125
Total Strontium		<0.005	mg/L	0.005
Total Tin		<0.025	mg/L	0.025
Total Vanadium		<0.025	mg/L	0.025
Total Zinc		<0.025	mg/L	0.025

Method Blank QCBatch: QC12979

Param	Flag	Results	Units	Reporting Limit
Total Aluminum		<0.1	mg/L	0.1
Total Arsenic		<0.05	mg/L	0.05
Total Barium		<0.1	mg/L	0.1
Total Beryllium		<0.0025	mg/L	0.0025
Total Boron		<0.01	mg/L	0.01
Total Cadmium		<0.025	mg/L	0.025
Total Chromium		<0.01	mg/L	0.01
Total Cobalt		<0.025	mg/L	0.025
Total Copper		<0.0125	mg/L	0.0125
Total Iron		<0.05	mg/L	0.05
Total Lead		<0.01	mg/L	0.01
Total Manganese		<0.025	mg/L	0.025
Total Molybdenum		<0.05	mg/L	0.05
Total Nickel		<0.025	mg/L	0.025
Total Phosphorous		0.254	mg/L	0.2
Total Selenium		<0.05	mg/L	0.05
Total Silica		<0.05	mg/L	0.05
Total Silver		<0.0125	mg/L	0.0125

Continued ...

... Continued

Param	Flag	Results	Units	Reporting Limit
Total Strontium		<0.005	mg/L	0.005
Total Tin		<0.025	mg/L	0.025
Total Vanadium		<0.025	mg/L	0.025
Total Zinc		<0.025	mg/L	0.025

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC12918

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Aluminum	0.844	0.785	mg/L	1	1	<0.1	84	7	75 - 125	20
Total Arsenic	0.536	0.533	mg/L	1	0.5	<0.05	107	0	75 - 125	20
Total Barium	1	0.956	mg/L	1	1	<0.1	100	4	75 - 125	20
Total Beryllium	0.0252	0.024	mg/L	1	0.025	<0.0025	100	4	75 - 125	20
Total Boron	0.0535	0.0551	mg/L	1	0.05	<0.01	107	2	75 - 125	20
Total Cadmium	0.251	0.241	mg/L	1	0.25	<0.025	100	4	75 - 125	20
Total Chromium	0.106	0.101	mg/L	1	0.1	<0.01	106	4	75 - 125	20
Total Cobalt	0.254	0.252	mg/L	1	0.25	<0.025	101	0	75 - 125	20
Total Copper	0.125	0.118	mg/L	1	0.125	<0.0125	100	5	75 - 125	20
Total Iron	0.549	0.501	mg/L	1	0.5	<0.05	109	9	75 - 125	20
Total Lead	0.499	0.492	mg/L	1	0.5	<0.01	99	1	75 - 125	20
Total Manganese	0.253	0.242	mg/L	1	0.25	<0.025	101	4	75 - 125	20
Total Molybdenum	0.521	0.512	mg/L	1	0.5	<0.05	104	1	75 - 125	20
Total Nickel	0.25	0.244	mg/L	1	0.25	<0.025	100	2	75 - 125	20
Total Phosphorous	0.775	0.793	mg/L	1	0.5	0.244	106	3	75 - 125	20
Total Selenium	0.462	0.452	mg/L	1	0.5	<0.05	92	2	75 - 125	20
Total Silica	0.5	0.483	mg/L	1	0.5	0.0543	89	3	75 - 125	20
Total Silver	0.124	0.119	mg/L	1	0.125	<0.0125	99	4	75 - 125	20
Total Strontium	0.0499	0.0473	mg/L	1	0.05	<0.005	99	5	75 - 125	20
Total Tin	0.334	0.327	mg/L	1	0.3	<0.025	111	2	75 - 125	20
Total Vanadium	0.251	0.24	mg/L	1	0.25	<0.025	100	4	75 - 125	20
Total Zinc	0.26	0.294	mg/L	1	0.25	<0.025	104	12	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC12979

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Aluminum	0.933	0.898	mg/L	1	1	<0.1	93	3	75 - 125	20
Total Arsenic	0.546	0.531	mg/L	1	0.5	<0.05	109	2	75 - 125	20
Total Barium	1.01	1	mg/L	1	1	<0.1	101	0	75 - 125	20
Total Beryllium	0.0254	0.0251	mg/L	1	0.025	<0.0025	101	1	75 - 125	20
Total Boron	0.052	0.0532	mg/L	1	0.05	<0.01	104	2	75 - 125	20
Total Cadmium	0.257	0.252	mg/L	1	0.25	<0.025	102	1	75 - 125	20
Total Chromium	0.101	84.2	mg/L	1	0.1	<0.01	101	7	75 - 125	20
Total Cobalt	0.258	0.101	mg/L	1	0.25	<0.025	103	0	75 - 125	20
Total Copper	0.127	0.258	mg/L	1	0.125	<0.0125	101	0	75 - 125	20
Total Iron	0.498	0.124	mg/L	1	0.5	<0.05	99	2	75 - 125	20

Continued ...

... Continued

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Lead	0.507	0.504	mg/L	1	0.5	<0.01	101	1	75 - 125	20
Total Manganese	0.254	0.507	mg/L	1	0.25	<0.025	101	0	75 - 125	20
Total Molybdenum	0.525	80.7	mg/L	1	0.5	<0.05	105	8	75 - 125	20
Total Nickel	0.246	0.252	mg/L	1	0.25	<0.025	98	0	75 - 125	20
Total Phosphorous	0.763	0.523	mg/L	1	0.5	0.254	101	0	75 - 125	20
Total Selenium	0.469	0.244	mg/L	1	0.5	<0.05	93	0	75 - 125	20
Total Silica	0.498	0.782	mg/L	1	0.5	<0.05	99	3	75 - 125	20
Total Silver	0.125	87.5	mg/L	1	0.125	<0.0125	100	9	75 - 125	20
Total Strontium	0.0495	0.459	mg/L	1	0.05	<0.005	99	2	75 - 125	20
Total Tin	0.332	0.492	mg/L	1	0.3	<0.025	110	1	75 - 125	20
Total Vanadium	0.254	0.124	mg/L	1	0.25	<0.025	101	0	75 - 125	20
Total Zinc	0.289	92	mg/L	1	0.25	<0.025	115	4	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Matrix Spikes and Duplicate Spikes

Matrix Spikes

QCBatch: QC12918

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Aluminum	0.864	0.871	mg/L	1	1	<0.1	86	0	75 - 125	20
Total Arsenic	0.6	0.618	mg/L	1	0.5	0.0899	104	3	75 - 125	20
Total Barium	1.02	1.02	mg/L	1	1	0.106	91	0	75 - 125	20
Total Beryllium	0.0211	0.0212	mg/L	1	0.025	<0.0025	84	0	75 - 125	20
Total Boron	[14] 6.42	[15] 6.59	mg/L	100	0.05	5.94	959	2	75 - 125	20
Total Cadmium	0.219	0.22	mg/L	1	0.25	<0.025	87	0	75 - 125	20
Total Chromium	[16] 0.143	0.1	mg/L	1	0.1	<0.01	143	35	75 - 125	20
Total Cobalt	0.251	0.252	mg/L	1	0.25	<0.025	100	0	75 - 125	20
Total Copper	0.156	0.154	mg/L	1	0.125	0.0125	110	1	75 - 125	20
Total Iron	[17] 1.14	0.938	mg/L	1	0.5	0.483	126	19	75 - 125	20
Total Lead	0.476	0.481	mg/L	1	0.5	0.0164	90	1	75 - 125	20
Total Manganese	0.801	0.789	mg/L	1	0.25	0.588	74	6	75 - 125	20
Total Molybdenum	0.918	0.919	mg/L	1	0.5	0.355	109	0	75 - 125	20
Total Nickel	[18] 0.395	0.321	mg/L	1	0.25	0.0573	135	25	75 - 125	20
Total Phosphorous	0.744	0.759	mg/L	1	0.5	0.326	84	3	75 - 125	20
Total Selenium	0.502	0.501	mg/L	1	0.5	0.0573	87	0	75 - 125	20
Total Silica	[19] 22.7	[20] 22.8	mg/L	1	0.5	12.1	2120	0	75 - 125	20
Total Silver	0.125	0.127	mg/L	1	0.125	<0.0125	100	1	75 - 125	20
Total Strontium	[21] 4.73	[22] 4.44	mg/L	1	0.05	4.41	640	6	75 - 125	20
Total Tin	[23] 0.184	[24] 0.182	mg/L	1	0.3	<0.025	61	1	75 - 125	20

Continued ...

[14]Matrix spike recovery invalid due matrix difficulties. LCS demonstrates process under control.
[15]Matrix spike recovery invalid due to required dilution. LCS demonstrates process under control.
[16]Matrix spike recovery invalid due matrix difficulties. LCS demonstrates process under control.
[17]Matrix spike recovery invalid due matrix difficulties. LCS demonstrates process under control.
[18]Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.
[19]Matrix spike recovery invalid due to required dilution. LCS demonstrates process under control.
[20]Matrix spike recovery invalid due to required dilution. LCS demonstrates process under control.
[21]Matrix spike recovery invalid due required dilution. LCS demonstrates process under control.
[22]Matrix spike recovery invalid due to required dilution. LCS demonstrates process under control.
[23]Matrix spike recovery invalid due matrix diffculties. LCS demonstrates process under control.
[24]Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.

... Continued

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Vanadium	0.242	0.245	mg/L	1	0.25	<0.025	96	1	75 - 125	20
Total Zinc	0.257	0.235	mg/L	1	0.25	<0.025	102	8	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

QCBatch: QC12979

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Aluminum	0.97	0.956	mg/L	1	1	<0.1	97	1	75 - 125	20
Total Arsenic	0.542	0.534	mg/L	1	0.5	<0.05	108	1	75 - 125	20
Total Barium	0.991	0.999	mg/L	1	1	<0.1	99	0	75 - 125	20
Total Beryllium	0.0213	0.0214	mg/L	1	0.025	<0.0025	85	0	75 - 125	20
Total Boron	[25] 8.2	[26] 7.81	mg/L	100	0.05	7.51	1380	5	75 - 125	20
Total Cadmium	0.231	0.226	mg/L	1	0.25	<0.025	92	2	75 - 125	20
Total Chromium	0.0937	0.0912	mg/L	1	0.1	<0.01	93	2	75 - 125	20
Total Cobalt	0.256	0.252	mg/L	1	0.25	<0.025	102	1	75 - 125	20
Total Copper	0.148	0.148	mg/L	1	0.125	<0.0125	118	0	75 - 125	20
Total Iron	1.37	1.38	mg/L	1	0.5	0.903	93	2	75 - 125	20
Total Lead	0.491	0.483	mg/L	1	0.5	<0.01	98	1	75 - 125	20
Total Manganese	2.24	2.28	mg/L	1	0.25	2.04	80	18	75 - 125	20
Total Molybdenum	1.27	1.26	mg/L	1	0.5	0.777	98	2	75 - 125	20
Total Nickel	0.275	0.27	mg/L	1	0.25	<0.025	110	1	75 - 125	20
Total Phosphorous	0.775	0.744	mg/L	1	0.5	0.284	98	6	75 - 125	20
Total Selenium	0.538	0.535	mg/L	1	0.5	0.0847	90	0	75 - 125	20
Total Silica	[27] 17.4	[28] 20.2	mg/L	1	0.5	16.2	240	14	75 - 125	20
Total Silver	0.127	0.126	mg/L	1	0.125	<0.0125	101	0	75 - 125	20
Total Strontium	[29] 6.38	[30] 6.72	mg/L	1	0.05	6.42	-80	261	75 - 125	20
Total Tin	[31] 0.194	[32] 0.178	mg/L	1	0.3	<0.025	64	8	75 - 125	20
Total Vanadium	0.24	0.242	mg/L	1	0.25	<0.025	96	0	75 - 125	20
Total Zinc	0.245	0.24	mg/L	1	0.25	<0.025	98	2	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QCBatch: QC12918

[25] Matrix spike recovery invalid due to required dilution. LCS demonstrates process under control.
[26] Matrix spike recovery invalid due to required dilution. LCS demonstrates process under control.
[27] Matrix spike recovery invalid due to required dilution. LCS demonstrates process under control.
[28] Matrix spike recovery invalid due to required dilution. LCS demonstrates process under control.
[29] Matrix spike recovery invalid due required dilution. LCS demonstrates process under control.
[30] Matrix spike recovery invalid due to required dilution. LCS demonstrates process under control.
[31] Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.
[32] Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	2	1.86	93	90 - 110	7/31/01
Total Arsenic		mg/L	1	1.02	102	90 - 110	7/31/01
Total Barium		mg/L	2	1.98	99	90 - 110	7/31/01
Total Beryllium		mg/L	0.05	0.05	100	90 - 110	7/31/01
Total Boron		mg/L	0.10	0.11	110	90 - 110	7/31/01
Total Cadmium		mg/L	0.50	0.505	101	90 - 110	7/31/01
Total Chromium		mg/L	0.20	0.208	104	90 - 110	7/31/01
Total Cobalt		mg/L	0.50	0.512	102	90 - 110	7/31/01
Total Copper		mg/L	0.25	0.242	96	90 - 110	7/31/01
Total Iron		mg/L	1	1.01	101	90 - 110	7/31/01
Total Lead		mg/L	1	1.01	101	90 - 110	7/31/01
Total Manganese		mg/L	0.50	0.496	99	90 - 110	7/31/01
Total Molybdenum		mg/L	1	1.01	101	90 - 110	7/31/01
Total Nickel		mg/L	0.50	0.507	101	90 - 110	7/31/01
Total Phosphorous		mg/L	1	1.02	102	90 - 110	7/31/01
Total Selenium		mg/L	1	1.02	102	90 - 110	7/31/01
Total Silica		mg/L	1	1	94	90 - 110	7/31/01
Total Silver		mg/L	0.25	0.245	98	90 - 110	7/31/01
Total Strontium		mg/L	0.10	0.0963	96	90 - 110	7/31/01
Total Tin		mg/L	0.50	0.517	103	90 - 110	7/31/01
Total Vanadium		mg/L	0.50	0.494	98	90 - 110	7/31/01
Total Zinc		mg/L	0.50	0.524	104	90 - 110	7/31/01

ICV (1) QCBatch: QC12918

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	2	1.98	99	90 - 110	7/31/01
Total Arsenic		mg/L	1	1.02	102	90 - 110	7/31/01
Total Barium		mg/L	2	1.98	99	90 - 110	7/31/01
Total Beryllium		mg/L	0.05	0.0495	99	90 - 110	7/31/01
Total Boron		mg/L	0.10	0.101	101	90 - 110	7/31/01
Total Cadmium		mg/L	0.50	0.495	99	90 - 110	7/31/01
Total Chromium		mg/L	0.20	0.206	103	90 - 110	7/31/01
Total Cobalt		mg/L	0.50	0.508	101	90 - 110	7/31/01
Total Copper		mg/L	0.25	0.246	98	90 - 110	7/31/01
Total Iron		mg/L	1	1	100	90 - 110	7/31/01
Total Lead		mg/L	1	1.02	102	90 - 110	7/31/01
Total Manganese		mg/L	0.50	0.493	98	90 - 110	7/31/01
Total Molybdenum		mg/L	1	1.01	101	90 - 110	7/31/01
Total Nickel		mg/L	0.50	0.506	101	90 - 110	7/31/01
Total Phosphorous		mg/L	1	1.03	103	90 - 110	7/31/01
Total Selenium		mg/L	1	1.03	103	90 - 110	7/31/01
Total Silica		mg/L	1	0.997	99	90 - 110	7/31/01
Total Silver		mg/L	0.25	0.247	98	90 - 110	7/31/01
Total Strontium		mg/L	0.10	0.0983	98	90 - 110	7/31/01
Total Tin		mg/L	0.50	0.51	102	90 - 110	7/31/01
Total Vanadium		mg/L	0.50	0.493	98	90 - 110	7/31/01
Total Zinc		mg/L	0.50	0.512	102	90 - 110	7/31/01

CCV (1) QCBatch: QC12979

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	2	2.19	109	90 - 110	7/31/01
Total Arsenic		mg/L	1	1.06	106	90 - 110	7/31/01
Total Barium		mg/L	2	2.08	104	90 - 110	7/31/01
Total Beryllium		mg/L	0.05	0.0519	103	90 - 110	7/31/01
Total Boron		mg/L	0.10	0.101	101	90 - 110	7/31/01
Total Cadmium		mg/L	0.50	0.521	104	90 - 110	7/31/01
Total Chromium		mg/L	0.20	0.212	106	90 - 110	7/31/01
Total Cobalt		mg/L	0.50	0.525	105	90 - 110	7/31/01
Total Copper		mg/L	0.25	0.258	103	90 - 110	7/31/01
Total Iron		mg/L	1	1.06	106	90 - 110	7/31/01
Total Lead		mg/L	1	1.04	104	90 - 110	7/31/01
Total Manganese		mg/L	0.50	0.52	104	90 - 110	7/31/01
Total Molybdenum		mg/L	1	1.04	104	90 - 110	7/31/01
Total Nickel		mg/L	0.50	0.524	104	90 - 110	7/31/01
Total Phosphorous		mg/L	1	1.06	106	90 - 110	7/31/01
Total Selenium		mg/L	1	1.05	105	90 - 110	7/31/01
Total Silica		mg/L	1	1.05	105	90 - 110	7/31/01
Total Silver		mg/L	0.25	0.255	102	90 - 110	7/31/01
Total Strontium		mg/L	0.10	0.102	102	90 - 110	7/31/01
Total Tin		mg/L	0.50	0.533	106	90 - 110	7/31/01
Total Vanadium		mg/L	0.50	0.518	103	90 - 110	7/31/01
Total Zinc		mg/L	0.50	0.533	106	90 - 110	7/31/01

ICV (1) QCBatch: QC12979

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	2	1.98	99	90 - 110	7/31/01
Total Arsenic		mg/L	1	1.02	102	90 - 110	7/31/01
Total Barium		mg/L	2	1.98	99	90 - 110	7/31/01
Total Beryllium		mg/L	0.05	0.0495	99	90 - 110	7/31/01
Total Boron		mg/L	0.10	0.101	101	90 - 110	7/31/01
Total Cadmium		mg/L	0.50	0.495	99	90 - 110	7/31/01
Total Chromium		mg/L	0.20	0.206	103	90 - 110	7/31/01
Total Cobalt		mg/L	0.50	0.508	101	90 - 110	7/31/01
Total Copper		mg/L	0.25	0.246	98	90 - 110	7/31/01
Total Iron		mg/L	1	1	100	90 - 110	7/31/01
Total Lead		mg/L	1	1.02	102	90 - 110	7/31/01
Total Manganese		mg/L	0.50	0.493	98	90 - 110	7/31/01
Total Molybdenum		mg/L	1	1.01	101	90 - 110	7/31/01
Total Nickel		mg/L	0.50	0.506	101	90 - 110	7/31/01
Total Phosphorous		mg/L	1	1.03	103	90 - 110	7/31/01
Total Selenium		mg/L	1	1.03	103	90 - 110	7/31/01
Total Silica		mg/L	1	0.997	99	90 - 110	7/31/01
Total Silver		mg/L	0.25	0.247	98	90 - 110	7/31/01
Total Strontium		mg/L	0.10	0.0983	98	90 - 110	7/31/01
Total Tin		mg/L	0.50	0.51	102	90 - 110	7/31/01
Total Vanadium		mg/L	0.50	0.493	98	90 - 110	7/31/01

Continued ...

. . . Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/L	0.50	0.512	102	90 - 110	7/31/01

Dissolved Salts Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 23, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis:	Salts	Analytical Method:	S 6010B	QC Batch:	QC12917	Date Analyzed:	7/27/01
Analyst:	LDB	Preparation Method:	E 3005 A	Prep Batch:	PB10996	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		265	mg/L	11	0.50
Dissolved Magnesium		579	mg/L	110	0.50
Dissolved Potassium		154	mg/L	11	0.50
Dissolved Sodium		2518	mg/L	110	0.50

Sample: 175645 - 0154-DRW03-0701-QC

Analysis:	Salts	Analytical Method:	S 6010B	QC Batch:	QC12917	Date Analyzed:	7/27/01
Analyst:	LDB	Preparation Method:	E 3005 A	Prep Batch:	PB10996	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		191	mg/L	11	0.50
Dissolved Magnesium		449	mg/L	11	0.50
Dissolved Potassium		101	mg/L	11	0.50
Dissolved Sodium		2582	mg/L	110	0.50

Sample: 175647 - 0154-DRW04-0701

Analysis:	Salts	Analytical Method:	S 6010B	QC Batch:	QC12917	Date Analyzed:	7/27/01
Analyst:	LDB	Preparation Method:	E 3005 A	Prep Batch:	PB10996	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		207	mg/L	11	0.50
Dissolved Magnesium		292	mg/L	11	0.50
Dissolved Potassium		71.9	mg/L	11	0.50
Dissolved Sodium		2284	mg/L	110	0.50

Sample: 175649 - 0154-HCF05-0701

Analysis:	Salts	Analytical Method:	S 6010B	QC Batch:	QC12917	Date Analyzed:	7/27/01
Analyst:	LDB	Preparation Method:	E 3005 A	Prep Batch:	PB10996	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		146	mg/L	11	0.50
Dissolved Magnesium		255	mg/L	11	0.50
Dissolved Potassium		61.8	mg/L	11	0.50
Dissolved Sodium		1814	mg/L	110	0.50

Sample: 175651 - 0154-HCF05-0701-QC

Analysis:	Salts	Analytical Method:	S 6010B	QC Batch:	QC12917	Date Analyzed:	7/27/01
Analyst:	LDB	Preparation Method:	E 3005 A	Prep Batch:	PB10996	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		136	mg/L	11	0.50
Dissolved Magnesium		230	mg/L	11	0.50
Dissolved Potassium		59.5	mg/L	11	0.50
Dissolved Sodium		1763	mg/L	110	0.50

Sample: 175653 - 0154-HCF07-0701

Analysis: Salts Analytical Method: S 6010B QC Batch: QC12917 Date Analyzed: 7/27/01
Analyst: LDB Preparation Method: E 3005 A Prep Batch: PB10996 Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		93.9	mg/L	11	0.50
Dissolved Magnesium		260	mg/L	11	0.50
Dissolved Potassium		56.4	mg/L	11	0.50
Dissolved Sodium		1843	mg/L	110	0.50

Sample: 175694 - 0154-DRW01-0701

Analysis: Salts Analytical Method: S 6010B QC Batch: QC12916 Date Analyzed: 8/1/01
Analyst: LDB Preparation Method: E 3005 A Prep Batch: PB11126 Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		217	mg/L	11	0.50
Dissolved Magnesium		252	mg/L	11	0.50
Dissolved Potassium		59.1	mg/L	11	0.50
Dissolved Sodium		1955	mg/L	110	0.50

Sample: 175696 - 0154-DRW02-0701

Analysis: Salts Analytical Method: S 6010B QC Batch: QC12916 Date Analyzed: 8/1/01
Analyst: LDB Preparation Method: E 3005 A Prep Batch: PB11126 Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		174	mg/L	11	0.50
Dissolved Magnesium		448	mg/L	11	0.50
Dissolved Potassium		108	mg/L	11	0.50
Dissolved Sodium		2651	mg/L	110	0.50

Sample: 175698 - 0154-DRW05-0701

Analysis: Salts Analytical Method: S 6010B QC Batch: QC12916 Date Analyzed: 8/1/01
Analyst: LDB Preparation Method: E 3005 A Prep Batch: PB11126 Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		157	mg/L	11	0.50
Dissolved Magnesium		426	mg/L	11	0.50
Dissolved Potassium		99.1	mg/L	11	0.50
Dissolved Sodium		1807	mg/L	110	0.50

Sample: 175700 - 0154-DRW12-0701

Analysis:	Salts	Analytical Method:	S 6010B	QC Batch:	QC12916	Date Analyzed:	8/1/01
Analyst:	LDB	Preparation Method:	E 3005 A	Prep Batch:	PB11126	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		469	mg/L	110	0.50
Dissolved Magnesium		1598	mg/L	110	0.50
Dissolved Potassium		274	mg/L	11	0.50
Dissolved Sodium		4517	mg/L	110	0.50

Sample: 175702 - 0154-DRW13-0701

Analysis:	Salts	Analytical Method:	S 6010B	QC Batch:	QC12916	Date Analyzed:	8/1/01
Analyst:	LDB	Preparation Method:	E 3005 A	Prep Batch:	PB11126	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		401	mg/L	11	0.50
Dissolved Magnesium		339	mg/L	11	0.50
Dissolved Potassium		87.7	mg/L	11	0.50
Dissolved Sodium		888	mg/L	110	0.50

Sample: 175854 - 0154-HCF01-0701

Analysis:	Salts	Analytical Method:	S 6010B	QC Batch:	QC12916	Date Analyzed:	8/1/01
Analyst:	LDB	Preparation Method:	E 3005 A	Prep Batch:	PB11126	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		473	mg/L	11	0.50
Dissolved Magnesium		631	mg/L	110	0.50
Dissolved Potassium		149	mg/L	11	0.50
Dissolved Sodium		2653	mg/L	110	0.50

Sample: 175856 - 0154-DRW16-0701

Analysis:	Salts	Analytical Method:	S 6010B	QC Batch:	QC12916	Date Analyzed:	8/1/01
Analyst:	LDB	Preparation Method:	E 3005 A	Prep Batch:	PB11126	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		485	mg/L	11	0.50
Dissolved Magnesium		681	mg/L	110	0.50
Dissolved Potassium		88.7	mg/L	11	0.50
Dissolved Sodium		2285	mg/L	110	0.50

Quality Control Report
Method Blank

Method Blank QCBatch: QC12916

Param	Flag	Results	Units	Reporting Limit
Dissolved Calcium		<0.5	mg/L	0.50
Dissolved Magnesium		<0.5	mg/L	0.50
Dissolved Potassium		<0.5	mg/L	0.50
Dissolved Sodium		<0.5	mg/L	0.50

Method Blank QCBatch: QC12917

Param	Flag	Results	Units	Reporting Limit
Dissolved Calcium		<0.5	mg/L	0.50
Dissolved Magnesium		<0.5	mg/L	0.50
Dissolved Potassium		<0.5	mg/L	0.50
Dissolved Sodium		<0.5	mg/L	0.50

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC12916

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Dissolved Calcium	98.5	86.5	mg/L	1	100	<0.5	98	13	75 - 125	20
Dissolved Magnesium	94.6	81.5	mg/L	1	100	<0.5	95	15	75 - 125	20
Dissolved Potassium	97.8	87.2	mg/L	1	100	<0.5	98	11	75 - 125	20
Dissolved Sodium	103	96.4	mg/L	1	100	<0.5	103	7	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC12917

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Dissolved Calcium	90.4	84.2	mg/L	1	100	<0.5	90	7	75 - 125	20
Dissolved Magnesium	86.6	79.1	mg/L	1	100	<0.5	86	9	75 - 125	20
Dissolved Potassium	91.7	83.8	mg/L	1	100	<0.5	91	9	75 - 125	20
Dissolved Sodium	95.5	90.3	mg/L	1	100	<0.5	95	5	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Matrix Spikes and Duplicate Spikes

Matrix Spikes QCBatch: QC12916

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Dissolved Calcium	[1] 593	[2] 567	mg/L	1100	100	473	0	0	75 - 125	20
Dissolved Magnesium	[3] 826	[4] 769	mg/L	1100	100	631	0	34	75 - 125	20
Dissolved Potassium	[5] 296	[6] 284	mg/L	110	100	149	0	0	75 - 125	20
Dissolved Sodium	[7] 3,118	[8] 3046	mg/L	1100	100	2653	0	16	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC12917

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Dissolved Calcium	368	365	mg/L	1	100	265	103	2	75 - 125	20
Dissolved Magnesium	655	614	mg/L	110	100	579	76	5	75 - 125	20
Dissolved Potassium	[9] 290	[10] 296	mg/L	11	100	154	136	4	75 - 125	20
Dissolved Sodium	[11] 3012	[12] 2784	mg/L	110	100	2518	494	10	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12916

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25	25.5	102	90 - 110	8/1/01
Dissolved Magnesium		mg/L	25	25	100	90 - 110	8/1/01
Dissolved Potassium		mg/L	25	24	96	90 - 110	8/1/01
Dissolved Sodium		mg/L	25	25.3	101	90 - 110	8/1/01

ICV (1) QCBatch: QC12916

[1]M.S. invalid due to matrix difficulties and dilution. LCS demonstrates process under control.
[2]M.S. invalid due to matrix difficulties and dilution. LCS demonstrates process under control.
[3]M.S. invalid due to matrix difficulties and dilution. LCS demonstrates process under control.
[4]M.S. invalid due to matrix difficulties and dilution. LCS demonstrates process under control.
[5]M.S. invalid due to matrix difficulties and dilution. LCS demonstrates process under control.
[6]M.S. invalid due to matrix difficulties and dilution. LCS demonstrates process under control.
[7]M.S. invalid due to matrix difficulties and dilution. LCS demonstrates process under control.
[8]M.S. invalid due to matrix difficulties and dilution. LCS demonstrates process under control.
[9]M.S. invalid due to matrix difficulties and dilution. LCS demonstrates process under control.
[10]M.S. invalid due to matrix difficulties and dilution. LCS demonstrates process under control.
[11]M.S. invalid due to matrix difficulties and dilution. LCS demonstrates process under control.
[12]M.S. invalid due to matrix difficulties and dilution. LCS demonstrates process under control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25	24.3	97	95 - 105	8/1/01
Dissolved Magnesium		mg/L	25	24.4	97	95 - 105	8/1/01
Dissolved Potassium		mg/L	25	25.6	102	95 - 105	8/1/01
Dissolved Sodium		mg/L	25	25.9	103	95 - 105	8/1/01

CCV (1) QCBatch: QC12917

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25	24.6	98	90 - 110	7/27/01
Dissolved Magnesium		mg/L	25	24.4	97	90 - 110	7/27/01
Dissolved Potassium		mg/L	25	24.4	97	90 - 110	7/27/01
Dissolved Sodium		mg/L	25	25.4	101	90 - 110	7/27/01

ICV (1) QCBatch: QC12917

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25	24.3	97	95 - 105	7/27/01
Dissolved Magnesium		mg/L	25	24.4	97	95 - 105	7/27/01
Dissolved Potassium		mg/L	25	25.6	102	95 - 105	7/27/01
Dissolved Sodium		mg/L	25	25.9	103	95 - 105	7/27/01

Mercury Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 23, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC12922	Date Analyzed:	7/29/01
Analyst:	BC	Preparation Method:	N/A	Prep Batch:	PB11035	Date Prepared:	7/28/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 175645 - 0154-DRW03-0701-QC

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC12922	Date Analyzed:	7/29/01
Analyst:	BC	Preparation Method:	N/A	Prep Batch:	PB11035	Date Prepared:	7/28/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 175647 - 0154-DRW04-0701

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC12922	Date Analyzed:	7/29/01
Analyst:	BC	Preparation Method:	N/A	Prep Batch:	PB11035	Date Prepared:	7/28/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 175649 - 0154-HCF05-0701

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC12922	Date Analyzed:	7/29/01
Analyst:	BC	Preparation Method:	N/A	Prep Batch:	PB11035	Date Prepared:	7/28/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 175651 - 0154-HCF05-0701-QC

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC12922	Date Analyzed:	7/29/01
Analyst:	BC	Preparation Method:	N/A	Prep Batch:	PB11035	Date Prepared:	7/28/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 175653 - 0154-HCF07-0701

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC12923	Date Analyzed:	7/29/01
Analyst:	BC	Preparation Method:	N/A	Prep Batch:	PB11035	Date Prepared:	7/28/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 175694 - 0154-DRW01-0701

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC12923	Date Analyzed:	7/29/01
Analyst:	BC	Preparation Method:	N/A	Prep Batch:	PB11035	Date Prepared:	7/28/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 175696 - 0154-DRW02-0701

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC12923	Date Analyzed:	7/29/01
Analyst:	BC	Preparation Method:	N/A	Prep Batch:	PB11035	Date Prepared:	7/28/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 175698 - 0154-DRW05-0701

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC12923	Date Analyzed:	7/29/01
Analyst:	BC	Preparation Method:	N/A	Prep Batch:	PB11035	Date Prepared:	7/28/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 175700 - 0154-DRW12-0701

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC12923	Date Analyzed:	7/29/01
Analyst:	BC	Preparation Method:	N/A	Prep Batch:	PB11035	Date Prepared:	7/28/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 175702 - 0154-DRW13-0701

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC12923	Date Analyzed:	7/29/01
Analyst:	BC	Preparation Method:	N/A	Prep Batch:	PB11035	Date Prepared:	7/28/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 175854 - 0154-HCF01-0701

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC13242	Date Analyzed:	8/8/01
Analyst:	BC	Preparation Method:	N/A	Prep Batch:	PB11220	Date Prepared:	8/7/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 175856 - 0154-DRW16-0701

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC13242	Date Analyzed:	8/8/01
Analyst:	BC	Preparation Method:	N/A	Prep Batch:	PB11220	Date Prepared:	8/7/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Quality Control Report
Method Blank

Method Blank QCBatch: QC12922

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank QCBatch: QC12923

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank QCBatch: QC13242

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC12922

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00104	0.00109	mg/L	1	0.001	<0.0002	104	4	84 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC12923

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00104	0.00109	mg/L	1	0.001	<0.0002	104	4	84 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC13242

Continued ...

... Continued

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00115	0.00115	mg/L	1	0.001	<0.0002	115	0	84 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Matrix Spikes and Duplicate Spikes

Matrix Spikes QCBatch: QC12922

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00102	0.00103	mg/L	1	0.001	<0.0002	102	0	84 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC12923

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00105	0.00108	mg/L	1	0.001	<0.0002	105	2	84 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC13242

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00109	0.00109	mg/L	1	0.001	<0.0002	109	0	84 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12922

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00106	106	80 - 120	7/29/01

ICV (1) QCBatch: QC12922

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00105	105	80 - 120	7/29/01

CCV (1) QCBatch: QC12923

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00096	96	80 - 120	7/29/01

ICV (1) QCBatch: QC12923

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00105	105	80 - 120	7/29/01

CCV (1) QCBatch: QC13242

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00108	108	80 - 120	8/8/01

ICV (1) QCBatch: QC13242

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00111	111	80 - 120	8/8/01

Dissolved Metals Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 27, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 16 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis: Dissolved Metals | Analytical Method: S 6010B | QC Batch: QC12884 | Date Analyzed: 7/27/01
Analyst: RR | Preparation Method: E 3005A | Prep Batch: PB11010 | Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Aluminum		<0.55	mg/L	1.10	0.50
Dissolved Arsenic		<0.011	mg/L	1.10	0.01
Dissolved Barium		0.0856	mg/L	1.10	0.01
Dissolved Beryllium		<0.011	mg/L	1.10	0.01
Dissolved Boron		5.8	mg/L	110	0.01
Dissolved Cadmium		<0.0022	mg/L	1.10	0.002
Dissolved Chromium		<0.055	mg/L	1.10	0.05
Dissolved Cobalt		<0.011	mg/L	1.10	0.01
Dissolved Copper		0.0163	mg/L	1.10	0.01
Dissolved Iron		0.1	mg/L	1.10	0.02
Dissolved Lead		<0.011	mg/L	1.10	0.01
Dissolved Lithium		0.67	mg/L	1.10	0.01
Dissolved Manganese		0.564	mg/L	1.10	0.001
Dissolved Molybdenum		0.396	mg/L	1.10	0.005
Dissolved Nickel		0.0522	mg/L	1.10	0.01
Dissolved Selenium		0.0912	mg/L	1.10	0.01
Dissolved Silica		18.9	mg/L	110	0.05
Dissolved Silver		<0.0011	mg/L	1.10	0.001
Dissolved Strontium		4.65	mg/L	110	0.01
Dissolved Tin		<0.011	mg/L	1.10	0.01
Dissolved Vanadium		<0.011	mg/L	1.10	0.01
Dissolved Zinc		<0.11	mg/L	1.10	0.10

Sample: 175645 - 0154-DRW03-0701-QC

Analysis: Dissolved Metals | Analytical Method: S 6010B | QC Batch: QC12884 | Date Analyzed: 7/27/01
Analyst: RR | Preparation Method: E 3005A | Prep Batch: PB11010 | Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Aluminum		<0.55	mg/L	1.10	0.50
Dissolved Arsenic		<0.011	mg/L	1.10	0.01
Dissolved Barium		0.0859	mg/L	1.10	0.01
Dissolved Beryllium		<0.011	mg/L	1.10	0.01
Dissolved Boron		5.95	mg/L	110	0.01
Dissolved Cadmium		<0.0022	mg/L	1.10	0.002
Dissolved Chromium		<0.055	mg/L	1.10	0.05
Dissolved Cobalt		<0.011	mg/L	1.10	0.01
Dissolved Copper		<0.011	mg/L	1.10	0.01
Dissolved Iron		0.106	mg/L	1.10	0.02
Dissolved Lead		<0.011	mg/L	1.10	0.01
Dissolved Lithium		0.706	mg/L	1.10	0.01
Dissolved Manganese		0.575	mg/L	1.10	0.001
Dissolved Molybdenum		0.408	mg/L	1.10	0.005
Dissolved Nickel		0.0502	mg/L	1.10	0.01
Dissolved Selenium		0.0829	mg/L	1.10	0.01
Dissolved Silica		19.3	mg/L	110	0.05
Dissolved Silver		<0.0011	mg/L	1.10	0.001

Continued ...

... Continued Sample: 175645 Analysis: Dissolved Metals

Param	Flag	Result	Units	Dilution	RDL
Dissolved Strontium		4.96	mg/L	110	0.01
Dissolved Tin		<0.011	mg/L	1.10	0.01
Dissolved Vanadium		<0.011	mg/L	1.10	0.01
Dissolved Zinc		<0.11	mg/L	1.10	0.10

Sample: 175647 - 0154-DRW04-0701

Analysis: Dissolved Metals Analytical Method: S 6010B QC Batch: QC12884 Date Analyzed: 7/27/01
Analyst: RR Preparation Method: E 3005A Prep Batch: PB11010 Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Aluminum		<0.55	mg/L	1.10	0.50
Dissolved Arsenic		<0.011	mg/L	1.10	0.01
Dissolved Barium		0.0118	mg/L	1.10	0.01
Dissolved Beryllium		<0.011	mg/L	1.10	0.01
Dissolved Boron		6.72	mg/L	110	0.01
Dissolved Cadmium		<0.0022	mg/L	1.10	0.002
Dissolved Chromium		<0.055	mg/L	1.10	0.05
Dissolved Cobalt		<0.011	mg/L	1.10	0.01
Dissolved Copper		<0.011	mg/L	1.10	0.01
Dissolved Iron		0.0586	mg/L	1.10	0.02
Dissolved Lead		<0.011	mg/L	1.10	0.01
Dissolved Lithium		0.64	mg/L	1.10	0.01
Dissolved Manganese		1.84	mg/L	1.10	0.001
Dissolved Molybdenum		0.12	mg/L	1.10	0.005
Dissolved Nickel		0.0224	mg/L	1.10	0.01
Dissolved Selenium		0.0294	mg/L	1.10	0.01
Dissolved Silica		21.0	mg/L	110	0.05
Dissolved Silver		<0.0011	mg/L	1.10	0.001
Dissolved Strontium		4.48	mg/L	110	0.01
Dissolved Tin		<0.011	mg/L	1.10	0.01
Dissolved Vanadium		0.0451	mg/L	1.10	0.01
Dissolved Zinc		<0.11	mg/L	1.10	0.10

Sample: 175649 - 0154-HCF05-0701

Analysis: Dissolved Metals Analytical Method: S 6010B QC Batch: QC12884 Date Analyzed: 7/27/01
Analyst: RR Preparation Method: E 3005A Prep Batch: PB11010 Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Aluminum		<0.55	mg/L	1.10	0.50
Dissolved Arsenic		<0.011	mg/L	1.10	0.01
Dissolved Barium		0.0125	mg/L	1.10	0.01
Dissolved Beryllium		<0.011	mg/L	1.10	0.01
Dissolved Boron		7.20	mg/L	110	0.01
Dissolved Cadmium		<0.0022	mg/L	1.10	0.002
Dissolved Chromium		<0.055	mg/L	1.10	0.05
Dissolved Cobalt		<0.011	mg/L	1.10	0.01
Dissolved Copper		<0.011	mg/L	1.10	0.01
Dissolved Iron		2.30	mg/L	1.10	0.02
Dissolved Lead		<0.011	mg/L	1.10	0.01
Dissolved Lithium		0.506	mg/L	1.10	0.01

Continued ...

... Continued Sample: 175649 Analysis: Dissolved Metals

Param	Flag	Result	Units	Dilution	RDL
Dissolved Manganese		0.357	mg/L	1.10	0.001
Dissolved Molybdenum		0.107	mg/L	1.10	0.005
Dissolved Nickel		0.0811	mg/L	1.10	0.01
Dissolved Selenium		0.0270	mg/L	1.10	0.01
Dissolved Silica		18.8	mg/L	110	0.05
Dissolved Silver		<0.0011	mg/L	1.10	0.001
Dissolved Strontium		3.91	mg/L	110	0.01
Dissolved Tin		<0.011	mg/L	1.10	0.01
Dissolved Vanadium		<0.011	mg/L	1.10	0.01
Dissolved Zinc		<0.11	mg/L	1.10	0.10

Sample: 175651 - 0154-HCF05-0701-QC

Analysis: Dissolved Metals Analytical Method: S 6010B QC Batch: QC12884 Date Analyzed: 7/27/01
Analyst: RR Preparation Method: E 3005A Prep Batch: PB11010 Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Aluminum		<0.55	mg/L	1.10	0.50
Dissolved Arsenic		<0.011	mg/L	1.10	0.01
Dissolved Barium		0.0113	mg/L	1.10	0.01
Dissolved Beryllium		<0.011	mg/L	1.10	0.01
Dissolved Boron		7.09	mg/L	110	0.01
Dissolved Cadmium		<0.0022	mg/L	1.10	0.002
Dissolved Chromium		<0.055	mg/L	1.10	0.05
Dissolved Cobalt		<0.011	mg/L	1.10	0.01
Dissolved Copper		0.0173	mg/L	1.10	0.01
Dissolved Iron		3.10	mg/L	1.10	0.02
Dissolved Lead		<0.011	mg/L	1.10	0.01
Dissolved Lithium		0.492	mg/L	1.10	0.01
Dissolved Manganese		0.359	mg/L	1.10	0.001
Dissolved Molybdenum		0.119	mg/L	1.10	0.005
Dissolved Nickel		0.0891	mg/L	1.10	0.01
Dissolved Selenium		0.0211	mg/L	1.10	0.01
Dissolved Silica		17.8	mg/L	110	0.05
Dissolved Silver		<0.0011	mg/L	1.10	0.001
Dissolved Strontium		3.89	mg/L	110	0.01
Dissolved Tin		0.0179	mg/L	1.10	0.01
Dissolved Vanadium		<0.011	mg/L	1.10	0.01
Dissolved Zinc		<0.11	mg/L	1.10	0.10

Sample: 175653 - 0154-HCF07-0701

Analysis: Dissolved Metals Analytical Method: S 6010B QC Batch: QC12884 Date Analyzed: 7/27/01
Analyst: RR Preparation Method: E 3005A Prep Batch: PB11010 Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Aluminum		<0.55	mg/L	1.10	0.50
Dissolved Arsenic		<0.011	mg/L	1.10	0.01
Dissolved Barium		0.049	mg/L	1.10	0.01
Dissolved Beryllium		<0.011	mg/L	1.10	0.01
Dissolved Boron		7.66	mg/L	110	0.01
Dissolved Cadmium		<0.0022	mg/L	1.10	0.002

Continued ...

... *Continued* Sample: 175653 Analysis: Dissolved Metals

Param	Flag	Result	Units	Dilution	RDL
Dissolved Chromium		<0.055	mg/L	1.10	0.05
Dissolved Cobalt		<0.011	mg/L	1.10	0.01
Dissolved Copper		<0.011	mg/L	1.10	0.01
Dissolved Iron		0.174	mg/L	1.10	0.02
Dissolved Lead		<0.011	mg/L	1.10	0.01
Dissolved Lithium		0.48	mg/L	1.10	0.01
Dissolved Manganese		0.0878	mg/L	1.10	0.001
Dissolved Molybdenum		0.114	mg/L	1.10	0.005
Dissolved Nickel		0.0198	mg/L	1.10	0.01
Dissolved Selenium		0.0416	mg/L	1.10	0.01
Dissolved Silica		14.5	mg/L	110	0.05
Dissolved Silver		<0.0011	mg/L	1.10	0.001
Dissolved Strontium		3.51	mg/L	110	0.01
Dissolved Tin		0.0114	mg/L	1.10	0.01
Dissolved Vanadium		<0.011	mg/L	1.10	0.01
Dissolved Zinc		<0.11	mg/L	1.10	0.10

Sample: 175694 - 0154-DRW01-0701

Analysis: Dissolved Metals Analytical Method: S 6010B QC Batch: QC12980 Date Analyzed: 7/31/01
Analyst: RR Preparation Method: E 3005A Prep Batch: PB11053 Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Aluminum		<0.55	mg/L	1.10	0.50
Dissolved Arsenic		0.0263	mg/L	1.10	0.01
Dissolved Barium		0.0334	mg/L	1.10	0.01
Dissolved Beryllium		<0.011	mg/L	1.10	0.01
Dissolved Boron		7.52	mg/L	110	0.01
Dissolved Cadmium		<0.0022	mg/L	1.10	0.002
Dissolved Chromium		<0.055	mg/L	1.10	0.05
Dissolved Cobalt		0.0158	mg/L	1.10	0.01
Dissolved Copper		<0.011	mg/L	1.10	0.01
Dissolved Iron		0.316	mg/L	1.10	0.02
Dissolved Lead		<0.011	mg/L	1.10	0.01
Dissolved Lithium		0.446	mg/L	1.10	0.01
Dissolved Manganese		2.10	mg/L	1.10	0.001
Dissolved Molybdenum		0.0453	mg/L	1.10	0.005
Dissolved Nickel		0.0787	mg/L	1.10	0.01
Dissolved Selenium		0.0145	mg/L	1.10	0.01
Dissolved Silica		18.2	mg/L	110	0.05
Dissolved Silver		<0.0011	mg/L	1.10	0.001
Dissolved Strontium		3.87	mg/L	110	0.01
Dissolved Tin		<0.011	mg/L	1.10	0.01
Dissolved Vanadium		0.0139	mg/L	1.10	0.01
Dissolved Zinc		<0.11	mg/L	1.10	0.10

Sample: 175696 - 0154-DRW02-0701

Analysis: Dissolved Metals Analytical Method: S 6010B QC Batch: QC12980 Date Analyzed: 7/31/01
Analyst: RR Preparation Method: E 3005A Prep Batch: PB11053 Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Aluminum		<0.55	mg/L	1.10	0.50

Continued ...

... *Continued* Sample: 175696 Analysis: Dissolved Metals

Param	Flag	Result	Units	Dilution	RDL
Dissolved Arsenic		<0.011	mg/L	1.10	0.01
Dissolved Barium		0.0823	mg/L	1.10	0.01
Dissolved Beryllium		<0.011	mg/L	1.10	0.01
Dissolved Boron		7.64	mg/L	110	0.01
Dissolved Cadmium		<0.0022	mg/L	1.10	0.002
Dissolved Chromium		<0.055	mg/L	1.10	0.05
Dissolved Cobalt		<0.011	mg/L	1.10	0.01
Dissolved Copper		<0.011	mg/L	1.10	0.01
Dissolved Iron		0.0595	mg/L	1.10	0.02
Dissolved Lead		<0.011	mg/L	1.10	0.01
Dissolved Lithium		0.656	mg/L	1.10	0.01
Dissolved Manganese		0.0634	mg/L	1.10	0.001
Dissolved Molybdenum		0.178	mg/L	1.10	0.005
Dissolved Nickel		0.0229	mg/L	1.10	0.01
Dissolved Selenium		1.23	mg/L	1.10	0.01
Dissolved Silica		16.5	mg/L	110	0.05
Dissolved Silver		<0.0011	mg/L	1.10	0.001
Dissolved Strontium		4.18	mg/L	110	0.01
Dissolved Tin		<0.011	mg/L	1.10	0.01
Dissolved Vanadium		<0.011	mg/L	1.10	0.01
Dissolved Zinc		<0.11	mg/L	1.10	0.10

Sample: 175698 - 0154-DRW05-0701

Analysis: Dissolved Metals Analytical Method: S 6010B QC Batch: QC12980 Date Analyzed: 7/31/01
Analyst: RR Preparation Method: E 3005A Prep Batch: PB11053 Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Aluminum		<0.55	mg/L	1.10	0.50
Dissolved Arsenic		<0.011	mg/L	1.10	0.01
Dissolved Barium		0.0303	mg/L	1.10	0.01
Dissolved Beryllium		<0.011	mg/L	1.10	0.01
Dissolved Boron		6.05	mg/L	110	0.01
Dissolved Cadmium		<0.0022	mg/L	1.10	0.002
Dissolved Chromium		<0.055	mg/L	1.10	0.05
Dissolved Cobalt		<0.011	mg/L	1.10	0.01
Dissolved Copper		<0.011	mg/L	1.10	0.01
Dissolved Iron		<0.022	mg/L	1.10	0.02
Dissolved Lead		<0.011	mg/L	1.10	0.01
Dissolved Lithium		0.554	mg/L	1.10	0.01
Dissolved Manganese		1.00	mg/L	1.10	0.001
Dissolved Molybdenum		0.106	mg/L	1.10	0.005
Dissolved Nickel		<0.011	mg/L	1.10	0.01
Dissolved Selenium		0.0978	mg/L	1.10	0.01
Dissolved Silica		17.3	mg/L	110	0.05
Dissolved Silver		<0.0011	mg/L	1.10	0.001
Dissolved Strontium		3.82	mg/L	110	0.01
Dissolved Tin		<0.011	mg/L	1.10	0.01
Dissolved Vanadium		0.0616	mg/L	1.10	0.01
Dissolved Zinc		<0.11	mg/L	1.10	0.10

Sample: 175700 - 0154-DRW12-0701

Analysis: Dissolved Metals Analytical Method: S 6010B QC Batch: QC12980 Date Analyzed: 7/31/01
Analyst: RR Preparation Method: E 3005A Prep Batch: PB11053 Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Aluminum		<0.55	mg/L	1.10	0.50
Dissolved Arsenic		<0.011	mg/L	1.10	0.01
Dissolved Barium		0.0423	mg/L	1.10	0.01
Dissolved Beryllium		<0.011	mg/L	1.10	0.01
Dissolved Boron		3.25	mg/L	110	0.01
Dissolved Cadmium		<0.0022	mg/L	1.10	0.002
Dissolved Chromium		<0.055	mg/L	1.10	0.05
Dissolved Cobalt		0.0703	mg/L	1.10	0.01
Dissolved Copper		0.24	mg/L	1.10	0.01
Dissolved Iron		6.87	mg/L	1.10	0.02
Dissolved Lead		<0.011	mg/L	1.10	0.01
Dissolved Lithium		1.3	mg/L	1.10	0.01
Dissolved Manganese		1.05	mg/L	1.10	0.001
Dissolved Molybdenum		0.275	mg/L	1.10	0.005
Dissolved Nickel		6.82	mg/L	1.10	0.01
Dissolved Selenium		0.284	mg/L	1.10	0.01
Dissolved Silica		8.57	mg/L	110	0.05
Dissolved Silver		<0.0011	mg/L	1.10	0.001
Dissolved Strontium		9.67	mg/L	110	0.01
Dissolved Tin		<0.011	mg/L	1.10	0.01
Dissolved Vanadium		<0.011	mg/L	1.10	0.01
Dissolved Zinc		<0.11	mg/L	1.10	0.10

Sample: 175702 - 0154-DRW13-0701

Analysis: Dissolved Metals Analytical Method: S 6010B QC Batch: QC12980 Date Analyzed: 7/31/01
Analyst: RR Preparation Method: E 3005A Prep Batch: PB11053 Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Aluminum		<0.55	mg/L	1.10	0.50
Dissolved Arsenic		<0.011	mg/L	1.10	0.01
Dissolved Barium		0.0317	mg/L	1.10	0.01
Dissolved Beryllium		<0.011	mg/L	1.10	0.01
Dissolved Boron		2.20	mg/L	110	0.01
Dissolved Cadmium		<0.0022	mg/L	1.10	0.002
Dissolved Chromium		<0.055	mg/L	1.10	0.05
Dissolved Cobalt		<0.011	mg/L	1.10	0.01
Dissolved Copper		<0.011	mg/L	1.10	0.01
Dissolved Iron		<0.022	mg/L	1.10	0.02
Dissolved Lead		<0.011	mg/L	1.10	0.01
Dissolved Lithium		0.543	mg/L	1.10	0.01
Dissolved Manganese	1	0.00565	mg/L	1.10	0.001
Dissolved Molybdenum		0.134	mg/L	1.10	0.005
Dissolved Nickel		0.044	mg/L	1.10	0.01
Dissolved Selenium		0.0742	mg/L	1.10	0.01
Dissolved Silica		13.6	mg/L	110	0.05
Dissolved Silver		<0.0011	mg/L	1.10	0.001
Dissolved Strontium		8.22	mg/L	110	0.01
Dissolved Tin		<0.011	mg/L	1.10	0.01

Continued ...

[1]Reported as estimated concentration. Analyte found in method blank.

... Continued Sample: 175702 Analysis: Dissolved Metals

Param	Flag	Result	Units	Dilution	RDL
Dissolved Vanadium		0.0208	mg/L	1.10	0.01
Dissolved Zinc		<0.11	mg/L	1.10	0.10

Sample: 175854 - 0154-HCF01-0701

Analysis: Dissolved Metals Analytical Method: S 6010B QC Batch: QC12980 Date Analyzed: 7/31/01
Analyst: RR Preparation Method: E 3005A Prep Batch: PB11053 Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Aluminum		<0.55	mg/L	1.10	0.50
Dissolved Arsenic		<0.011	mg/L	1.10	0.01
Dissolved Barium		0.0516	mg/L	1.10	0.01
Dissolved Beryllium		<0.011	mg/L	1.10	0.01
Dissolved Boron		7.91	mg/L	110	0.01
Dissolved Cadmium		<0.0022	mg/L	1.10	0.002
Dissolved Chromium		<0.055	mg/L	1.10	0.05
Dissolved Cobalt		<0.011	mg/L	1.10	0.01
Dissolved Copper		<0.011	mg/L	1.10	0.01
Dissolved Iron		0.627	mg/L	1.10	0.02
Dissolved Lead		<0.011	mg/L	1.10	0.01
Dissolved Lithium		0.72	mg/L	1.10	0.01
Dissolved Manganese		2.92	mg/L	1.10	0.001
Dissolved Molybdenum		0.767	mg/L	1.10	0.005
Dissolved Nickel		<0.011	mg/L	1.10	0.01
Dissolved Selenium		0.0908	mg/L	1.10	0.01
Dissolved Silica		17.8	mg/L	110	0.05
Dissolved Silver		<0.0011	mg/L	1.10	0.001
Dissolved Strontium		7.70	mg/L	110	0.01
Dissolved Tin		<0.011	mg/L	1.10	0.01
Dissolved Vanadium		<0.011	mg/L	1.10	0.01
Dissolved Zinc		<0.11	mg/L	1.10	0.10

Sample: 175856 - 0154-DRW16-0701

Analysis: Dissolved Metals Analytical Method: S 6010B QC Batch: QC12980 Date Analyzed: 7/31/01
Analyst: RR Preparation Method: E 3005A Prep Batch: PB11053 Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Aluminum		<0.55	mg/L	1.10	0.50
Dissolved Arsenic		<0.011	mg/L	1.10	0.01
Dissolved Barium		0.0251	mg/L	1.10	0.01
Dissolved Beryllium		<0.011	mg/L	1.10	0.01
Dissolved Boron		1.82	mg/L	110	0.01
Dissolved Cadmium		<0.0022	mg/L	1.10	0.002
Dissolved Chromium		0.32	mg/L	1.10	0.05
Dissolved Cobalt		<0.011	mg/L	1.10	0.01
Dissolved Copper		0.0123	mg/L	1.10	0.01
Dissolved Iron		<0.022	mg/L	1.10	0.02
Dissolved Lead		<0.011	mg/L	1.10	0.01
Dissolved Lithium		0.8	mg/L	1.10	0.01
Dissolved Manganese	[2]	0.00441	mg/L	1.10	0.001

Continued ...

[2]Reported as estimated concentration. Analyte found method blank.

... *Continued* Sample: 175856 Analysis: Dissolved Metals

Param	Flag	Result	Units	Dilution	RDL
Dissolved Molybdenum		0.0371	mg/L	1.10	0.005
Dissolved Nickel		0.0536	mg/L	1.10	0.01
Dissolved Selenium		0.0858	mg/L	1.10	0.01
Dissolved Silica		18.7	mg/L	110	0.05
Dissolved Silver		<0.0011	mg/L	1.10	0.001
Dissolved Strontium		7.89	mg/L	110	0.01
Dissolved Tin		<0.011	mg/L	1.10	0.01
Dissolved Vanadium		<0.011	mg/L	1.10	0.01
Dissolved Zinc		<0.11	mg/L	1.10	0.10

Quality Control Report
Method Blank

Method Blank QCBatch: QC12884

Param	Flag	Results	Units	Reporting Limit
Dissolved Aluminum		<0.55	mg/L	0.50
Dissolved Arsenic		<0.011	mg/L	0.01
Dissolved Barium		<0.011	mg/L	0.01
Dissolved Beryllium		<0.011	mg/L	0.01
Dissolved Boron		<0.011	mg/L	0.01
Dissolved Cadmium		<0.0022	mg/L	0.002
Dissolved Chromium		<0.055	mg/L	0.05
Dissolved Cobalt		<0.011	mg/L	0.01
Dissolved Copper		<0.011	mg/L	0.01
Dissolved Iron		<0.022	mg/L	0.02
Dissolved Lead		<0.011	mg/L	0.01
Dissolved Lithium		<0.011	mg/L	0.01
Dissolved Manganese		<0.0011	mg/L	0.001
Dissolved Molybdenum		<0.005	mg/L	0.005
Dissolved Nickel		<0.011	mg/L	0.01
Dissolved Selenium		<0.011	mg/L	0.01
Dissolved Silica		<0.055	mg/L	0.05
Dissolved Silver		<0.0011	mg/L	0.001
Dissolved Strontium		<0.011	mg/L	0.01
Dissolved Tin		<0.011	mg/L	0.01
Dissolved Vanadium		<0.011	mg/L	0.01
Dissolved Zinc		<0.11	mg/L	0.10

Method Blank QCBatch: QC12980

Param	Flag	Results	Units	Reporting Limit
Dissolved Aluminum		<0.55	mg/L	0.50
Dissolved Arsenic		<0.011	mg/L	0.01
Dissolved Barium		<0.011	mg/L	0.01
Dissolved Beryllium		<0.011	mg/L	0.01
Dissolved Boron		<0.011	mg/L	0.01
Dissolved Cadmium	[3]	0.00255	mg/L	0.002
Dissolved Chromium		<0.055	mg/L	0.05
Dissolved Cobalt		<0.011	mg/L	0.01
Dissolved Copper		<0.011	mg/L	0.01
Dissolved Iron		<0.022	mg/L	0.02
Dissolved Lead		<0.011	mg/L	0.01
Dissolved Lithium		<0.011	mg/L	0.01
Dissolved Manganese	[4]	0.00378	mg/L	0.001
Dissolved Molybdenum		<0.0055	mg/L	0.005
Dissolved Nickel		<0.011	mg/L	0.01
Dissolved Selenium		<0.011	mg/L	0.01

Continued ...

[3] Cadmium contamination found in method blank. All samples reported as non-detect.
[4] Manganese found in method blank.

... Continued

Param	Flag	Results	Units	Reporting Limit
Dissolved Silica		<0.55	mg/L	0.05
Dissolved Silver	5	0.00131	mg/L	0.001
Dissolved Strontium		<0.011	mg/L	0.01
Dissolved Tin		<0.011	mg/L	0.01
Dissolved Vanadium		<0.011	mg/L	0.01
Dissolved Zinc		<0.11	mg/L	0.10

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC12884

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Dissolved Aluminum	1.11	1.15	mg/L	1.2	1	<0.55	111	3	85 - 115	20
Dissolved Arsenic	0.492	0.498	mg/L	1.2	0.5	<0.011	98	1	85 - 115	20
Dissolved Barium	1.02	1.02	mg/L	1.2	1	<0.011	102	0	85 - 115	20
Dissolved Beryllium	0.0247	0.0245	mg/L	1.2	0.025	<0.011	98	0	85 - 115	20
Dissolved Boron	0.0525	0.0498	mg/L	1.2	0.05	<0.011	105	5	85 - 115	20
Dissolved Cadmium	0.252	0.248	mg/L	1.2	0.25	<0.0022	100	1	85 - 115	20
Dissolved Chromium	0.102	0.102	mg/L	1.2	0.1	<0.055	102	0	85 - 115	20
Dissolved Cobalt	0.254	0.251	mg/L	1.2	0.25	<0.011	101	1	85 - 115	20
Dissolved Copper	0.128	0.128	mg/L	1.2	0.125	<0.011	102	0	85 - 115	20
Dissolved Iron	0.508	0.501	mg/L	1.2	0.5	<0.022	101	1	85 - 115	20
Dissolved Lead	0.494	0.492	mg/L	1.2	0.5	<0.011	98	0	85 - 115	20
Dissolved Lithium	0.0425	0.0424	mg/L	1.2	0.05	<0.011	85	0	85 - 115	20
Dissolved Manganese	0.253	0.252	mg/L	1.2	0.25	<0.0011	101	0	85 - 115	20
Dissolved Molybdenum	0.526	0.523	mg/L	1.2	0.5	<0.005	104	0	85 - 115	20
Dissolved Nickel	0.247	0.25	mg/L	1.2	0.25	<0.011	98	1	85 - 115	20
Dissolved Selenium	0.461	0.459	mg/L	1.2	0.5	<0.011	92	0	85 - 115	20
Dissolved Silica	0.511	0.502	mg/L	1.2	0.5	<0.055	0	0	85 - 115	20
Dissolved Silver	0.126	0.127	mg/L	1.2	0.125	<0.0011	100	0	85 - 115	20
Dissolved Strontium	0.0501	0.05	mg/L	1.2	0.05	<0.011	100	0	85 - 115	20
Dissolved Tin	0.339	0.367	mg/L	1.2	0.3	<0.011	113	7	85 - 115	20
Dissolved Vanadium	0.254	0.254	mg/L	1.2	0.25	<0.011	101	0	85 - 115	20
Dissolved Zinc	0.251	0.249	mg/L	1.2	0.25	<0.11	100	0	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC12980

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Dissolved Aluminum	0.92	0.949	mg/L	1.2	1	<0.55	92	3	85 - 115	20
Dissolved Arsenic	0.504	0.516	mg/L	1.2	0.5	<0.011	100	2	85 - 115	20
Dissolved Barium	1.01	1.04	mg/L	1.2	1	<0.011	99	2	85 - 115	20
Dissolved Beryllium	0.0248	0.0255	mg/L	1.2	0.025	<0.011	99	2	85 - 115	20
Dissolved Boron	0.0526	0.0538	mg/L	1.2	0.05	<0.011	105	2	85 - 115	20
Dissolved Cadmium	0.25	0.256	mg/L	1.2	0.25	0.00255	98	2	85 - 115	20

Continued ...

[5]Silver contamination found in method blank. All samples reported as non-detect.

... Continued

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Dissolved Chromium	0.102	0.102	mg/L	1.2	0.1	<0.055	102	0	85 - 115	20
Dissolved Cobalt	0.254	0.262	mg/L	1.2	0.25	<0.011	101	3	85 - 115	20
Dissolved Copper	0.124	0.127	mg/L	1.2	0.125	<0.011	99	2	85 - 115	20
Dissolved Iron	0.496	0.5	mg/L	1.2	0.5	<0.022	99	0	85 - 115	20
Dissolved Lead	0.503	0.51	mg/L	1.2	0.5	<0.011	100	1	85 - 115	20
Dissolved Lithium	0.0385	0.0389	mg/L	1.2	0.05	<0.011	77	1	85 - 115	20
Dissolved Manganese	0.253	0.259	mg/L	1.2	0.25	0.00378	99	2	85 - 115	20
Dissolved Molybdenum	0.529	0.542	mg/L	1.2	0.5	<0.0055	103	2	85 - 115	20
Dissolved Nickel	0.243	0.252	mg/L	1.2	0.25	<0.011	97	3	85 - 115	20
Dissolved Selenium	0.458	0.463	mg/L	1.2	0.5	<0.011	91	1	85 - 115	20
Dissolved Silica	0.505	0.508	mg/L	1.2	0.5	<0.55	101	0	85 - 115	20
Dissolved Silver	0.126	0.129	mg/L	1.2	0.125	0.00131	99	2	85 - 115	20
Dissolved Strontium	0.0495	0.0508	mg/L	1.2	0.05	<0.011	99	2	85 - 115	20
Dissolved Tin	0.346	0.344	mg/L	1.2	0.3	<0.011	115	0	85 - 115	20
Dissolved Vanadium	0.253	0.26	mg/L	1.2	0.25	<0.011	101	2	85 - 115	20
Dissolved Zinc	0.282	0.28	mg/L	1.2	0.25	<0.11	112	0	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Matrix Spikes and Duplicate Spikes

Matrix Spikes

QCBatch: QC12884

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Dissolved Aluminum	1.08	1.07	mg/L	1.2	1	<0.55	108	0	75 - 125	20
Dissolved Arsenic	0.564	0.542	mg/L	1.2	0.5	<0.011	112	3	75 - 125	20
Dissolved Barium	1.08	1.06	mg/L	1.2	1	0.0856	99	2	75 - 125	20
Dissolved Beryllium	0.0219	0.0216	mg/L	1.2	0.025	<0.011	87	1	75 - 125	20
Dissolved Boron	[6] 5.93	[7] 5.62	mg/L	120	0.05	5.8	260	5	75 - 125	20
Dissolved Cadmium	0.226	0.223	mg/L	1.2	0.25	<0.0022	90	1	75 - 125	20
Dissolved Chromium	0.0824	0.0798	mg/L	1.2	0.1	<0.055	82	3	75 - 125	20
Dissolved Cobalt	0.252	0.251	mg/L	1.2	0.25	<0.011	100	0	75 - 125	20
Dissolved Copper	0.159	0.158	mg/L	1.2	0.125	0.0163	114	0	75 - 125	20
Dissolved Iron	0.58	0.574	mg/L	1.2	0.5	0.1	96	1	75 - 125	20
Dissolved Lead	0.468	0.461	mg/L	1.2	0.5	<0.011	93	1	75 - 125	20
Dissolved Lithium	[8] 0.83	[9] 0.806	mg/L	1.2	0.05	0.67	320	16	75 - 125	20
Dissolved Manganese	0.835	0.814	mg/L	1.2	0.25	0.564	108	8	75 - 125	20
Dissolved Molybdenum	0.875	0.864	mg/L	1.2	0.5	0.396	95	2	75 - 125	20
Dissolved Nickel	0.305	0.3	mg/L	1.2	0.25	0.0522	101	1	75 - 125	20
Dissolved Selenium	0.564	0.548	mg/L	1.2	0.5	0.0912	94	3	75 - 125	20
Dissolved Silica	[10] 19.9	[11] 21.3	mg/L	120	0.5	18.9	206	7	75 - 125	20
Dissolved Silver	0.132	0.126	mg/L	1.2	0.125	<0.0011	105	4	75 - 125	20
Dissolved Strontium	[12] 4.84	[13] 5.34	mg/L	120	0.05	4.65	380	10	75 - 125	20

Continued ...

[6]Matrix spike invalid due to high concentration in sample. LCS demonstrates process under control.
[7]Matrix spike invalid due high concentration in sample. LCS demonstrates process under control.
[8]Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.
[9]Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.
[10]Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.
[11]Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.
[12]Matrix spike recovery invalid due marix difficulties. LCS demonstrates process under control.
[13]Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.

... Continued

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Dissolved Tin	0.308	0.307	mg/L	1.2	0.3	<0.011	102	0	75 - 125	20
Dissolved Vanadium	0.248	0.245	mg/L	1.2	0.25	<0.011	99	1	75 - 125	20
Dissolved Zinc	0.229	0.228	mg/L	1.2	0.25	<0.11	91	0	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC12980

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Dissolved Aluminum	0.899	0.927	mg/L	1.2	1	<0.55	89	3	75 - 125	20
Dissolved Arsenic	0.536	0.543	mg/L	1.2	0.5	<0.011	107	1	75 - 125	20
Dissolved Barium	1	1.02	mg/L	1.2	1	0.0516	94	2	75 - 125	20
Dissolved Beryllium	0.0214	0.0217	mg/L	1.2	0.025	<0.011	85	1	75 - 125	20
Dissolved Boron	[14] 7.98	[15] 8.01	mg/L	120	0.05	7.91	140	0	75 - 125	20
Dissolved Cadmium	0.233	0.235	mg/L	1.2	0.25	<0.0022	93	0	75 - 125	20
Dissolved Chromium	0.0913	0.0926	mg/L	1.2	0.1	<0.055	91	1	75 - 125	20
Dissolved Cobalt	0.255	0.258	mg/L	1.2	0.25	<0.011	102	1	75 - 125	20
Dissolved Copper	0.151	0.154	mg/L	1.2	0.125	<0.011	120	1	75 - 125	20
Dissolved Iron	1.1	1.11	mg/L	1.2	0.5	0.627	94	2	75 - 125	20
Dissolved Lead	0.499	0.492	mg/L	1.2	0.5	<0.011	99	1	75 - 125	20
Dissolved Lithium	[16] 0.814	[17] 0.834	mg/L	1.2	0.05	0.72	188	19	75 - 125	20
Dissolved Manganese	3.12	3.16	mg/L	1.2	0.25	2.92	80	18	75 - 125	20
Dissolved Molybdenum	1.26	1.26	mg/L	1.2	0.5	0.767	98	0	75 - 125	20
Dissolved Nickel	0.274	0.273	mg/L	1.2	0.25	<0.011	109	0	75 - 125	20
Dissolved Selenium	0.553	0.564	mg/L	1.2	0.5	0.0908	92	2	75 - 125	20
Dissolved Silica	[18] 18.9	[19] 18.7	mg/L	120	0.5	17.8	212	1	75 - 125	20
Dissolved Silver	0.132	0.133	mg/L	1.2	0.125	<0.0011	105	0	75 - 125	20
Dissolved Strontium	[20] 7.78	[21] 7.78	mg/L	120	0.05	7.7	160	0	75 - 125	20
Dissolved Tin	[22] 0.163	[23] 0.164	mg/L	1.2	0.3	<0.011	54	0	75 - 125	20
Dissolved Vanadium	0.238	0.242	mg/L	1.2	0.25	<0.011	95	1	75 - 125	20
Dissolved Zinc	0.255	0.254	mg/L	1.2	0.25	<0.11	102	0	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12884

[14]Matrix spike recovery invalid due required dilution. LCS demonstrates process under control.
[15]Matrix spike recovery invalid due to required dilution. LCS demonstrates process under control.
[16]Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.
[17]Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.
[18]Matrix spike recovery invalid due to required dilution. LCS demonstrates process under control.
[19]Matrix spike recovery invalid due to required dilution. LCS demonstrates process under control.
[20]Matrix spike recovery invalid due required dilution. LCS demonstrates process under control.
[21]Matrix spike recovery invalid due to required dilution. LCS demonstrates process under control.
[22]Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.
[23]Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Aluminum		mg/L	2	2.1	105	90 - 110	7/27/01
Dissolved Arsenic		mg/L	1	1.01	101	90 - 110	7/27/01
Dissolved Barium		mg/L	2	2.06	103	90 - 110	7/27/01
Dissolved Beryllium		mg/L	0.05	0.051	102	90 - 110	7/27/01
Dissolved Boron		mg/L	0.10	0.0983	98	90 - 110	7/27/01
Dissolved Cadmium		mg/L	0.50	0.513	102	90 - 110	7/27/01
Dissolved Chromium		mg/L	0.20	0.203	101	90 - 110	7/27/01
Dissolved Cobalt		mg/L	0.50	0.497	99	90 - 110	7/27/01
Dissolved Copper		mg/L	0.25	0.255	102	90 - 110	7/27/01
Dissolved Iron		mg/L	1	1.03	103	90 - 110	7/27/01
Dissolved Lead		mg/L	1	0.994	99	90 - 110	7/27/01
Dissolved Lithium		mg/L	0.10	0.0951	95	90 - 110	7/27/01
Dissolved Manganese		mg/L	0.50	0.511	102	90 - 110	7/27/01
Dissolved Molybdenum		mg/L	1	1.01	100	90 - 110	7/27/01
Dissolved Nickel		mg/L	0.50	0.5	100	90 - 110	7/27/01
Dissolved Selenium		mg/L	1	1.01	101	90 - 110	7/27/01
Dissolved Silica		mg/L	1	1.04	104	90 - 110	7/27/01
Dissolved Silver		mg/L	0.25	0.256	102	90 - 110	7/27/01
Dissolved Strontium		mg/L	0.10	0.108	108	90 - 110	7/27/01
Dissolved Tin		mg/L	0.50	0.514	102	90 - 110	7/27/01
Dissolved Vanadium		mg/L	0.50	0.512	102	90 - 110	7/27/01
Dissolved Zinc		mg/L	0.50	0.502	100	90 - 110	7/27/01

ICV (1) QCBatch: QC12884

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Aluminum		mg/L	2	2.09	104	90 - 110	7/27/01
Dissolved Arsenic		mg/L	1	1	100	90 - 110	7/27/01
Dissolved Barium		mg/L	2	2.03	101	90 - 110	7/27/01
Dissolved Beryllium		mg/L	0.05	0.0505	101	90 - 110	7/27/01
Dissolved Boron		mg/L	0.10	0.102	102	90 - 110	7/27/01
Dissolved Cadmium		mg/L	0.50	0.508	101	90 - 110	7/27/01
Dissolved Chromium		mg/L	0.20	0.199	99	90 - 110	7/27/01
Dissolved Cobalt		mg/L	0.50	0.501	100	90 - 110	7/27/01
Dissolved Copper		mg/L	0.25	0.252	100	90 - 110	7/27/01
Dissolved Iron		mg/L	1	1.01	101	90 - 110	7/27/01
Dissolved Lead		mg/L	1	0.997	99	90 - 110	7/27/01
Dissolved Lithium		mg/L	0.10	0.0915	91	90 - 110	7/27/01
Dissolved Manganese		mg/L	0.50	0.508	101	90 - 110	7/27/01
Dissolved Molybdenum		mg/L	1	0.993	99	90 - 110	7/27/01
Dissolved Nickel		mg/L	0.50	0.494	98	90 - 110	7/27/01
Dissolved Selenium		mg/L	1	1.01	101	90 - 110	7/27/01
Dissolved Silica		mg/L	1	1.02	102	90 - 110	7/27/01
Dissolved Silver		mg/L	0.25	0.254	101	90 - 110	7/27/01
Dissolved Strontium		mg/L	0.10	0.102	102	90 - 110	7/27/01
Dissolved Tin		mg/L	0.50	0.506	101	90 - 110	7/27/01
Dissolved Vanadium		mg/L	0.50	0.508	101	90 - 110	7/27/01
Dissolved Zinc		mg/L	0.50	0.498	99	90 - 110	7/27/01

CCV (1) QCBatch: QC12980

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Aluminum		mg/L	2	2.13	106	90 - 110	7/31/01
Dissolved Arsenic		mg/L	1	1.06	106	90 - 110	7/31/01
Dissolved Barium		mg/L	2	2.05	101	90 - 110	7/31/01
Dissolved Beryllium		mg/L	0.05	0.0512	102	90 - 110	7/31/01
Dissolved Boron		mg/L	0.10	0.105	105	90 - 110	7/31/01
Dissolved Cadmium		mg/L	0.50	0.516	102	90 - 110	7/31/01
Dissolved Calcium		mg/L	25	25	100	90 - 110	7/31/01
Dissolved Chromium		mg/L	0.20	0.215	107	90 - 110	7/31/01
Dissolved Cobalt		mg/L	0.50	0.524	104	90 - 110	7/31/01
Dissolved Copper		mg/L	0.25	0.255	102	90 - 110	7/31/01
Dissolved Iron		mg/L	1	1.05	105	90 - 110	7/31/01
Dissolved Lead		mg/L	1	1.05	105	90 - 110	7/31/01
Dissolved Lithium		mg/L	0.10	0.105	105	90 - 110	7/31/01
Dissolved Magnesium		mg/L	25	24.8	99	90 - 110	7/31/01
Dissolved Manganese		mg/L	0.50	0.514	102	90 - 110	7/31/01
Dissolved Molybdenum		mg/L	1	1.05	103	90 - 110	7/31/01
Dissolved Nickel		mg/L	0.50	0.521	104	90 - 110	7/31/01
Dissolved Potassium		mg/L	25	24.9	99	90 - 110	7/31/01
Dissolved Selenium		mg/L	1	1.06	106	90 - 110	7/31/01
Dissolved Silica		mg/L	1	1.03	103	90 - 110	7/31/01
Dissolved Silver		mg/L	0.25	0.254	101	90 - 110	7/31/01
Dissolved Sodium		mg/L	25	26.3	105	90 - 110	7/31/01
Dissolved Strontium		mg/L	0.10	0.101	101	90 - 110	7/31/01
Dissolved Tin		mg/L	0.50	0.532	106	90 - 110	7/31/01
Dissolved Vanadium		mg/L	0.50	0.512	102	90 - 110	7/31/01
Dissolved Zinc		mg/L	0.50	0.531	106	90 - 110	7/31/01

ICV (1) QCBatch: QC12980

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Aluminum		mg/L	2	1.98	99	90 - 110	7/31/01
Dissolved Arsenic		mg/L	1	1.02	102	90 - 110	7/31/01
Dissolved Barium		mg/L	2	1.98	99	90 - 110	7/31/01
Dissolved Beryllium		mg/L	0.05	0.0495	99	90 - 110	7/31/01
Dissolved Boron		mg/L	0.10	0.101	101	90 - 110	7/31/01
Dissolved Cadmium		mg/L	0.50	0.495	99	90 - 110	7/31/01
Dissolved Calcium		mg/L	25	23.9	95	90 - 110	7/31/01
Dissolved Chromium		mg/L	0.20	0.206	103	90 - 110	7/31/01
Dissolved Cobalt		mg/L	0.50	0.508	101	90 - 110	7/31/01
Dissolved Copper		mg/L	0.25	0.246	98	90 - 110	7/31/01
Dissolved Iron		mg/L	1	1	100	90 - 110	7/31/01
Dissolved Lead		mg/L	1	1.02	102	90 - 110	7/31/01
Dissolved Lithium		mg/L	0.10	0.101	101	90 - 110	7/31/01
Dissolved Magnesium		mg/L	25	24.1	96	90 - 110	7/31/01
Dissolved Manganese		mg/L	0.50	0.493	98	90 - 110	7/31/01
Dissolved Molybdenum		mg/L	1	1.01	101	90 - 110	7/31/01
Dissolved Nickel		mg/L	0.50	0.506	101	90 - 110	7/31/01

Continued ...

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Potassium		mg/L	25	25.6	102	90 - 110	7/31/01
Dissolved Selenium		mg/L	1	1.03	103	90 - 110	7/31/01
Dissolved Silica		mg/L	1	0.997	99	90 - 110	7/31/01
Dissolved Silver		mg/L	0.25	0.247	98	90 - 110	7/31/01
Dissolved Sodium		mg/L	25	25.4	101	90 - 110	7/31/01
Dissolved Strontium		mg/L	0.10	0.0983	98	90 - 110	7/31/01
Dissolved Tin		mg/L	0.50	0.51	102	90 - 110	7/31/01
Dissolved Vanadium		mg/L	0.50	0.493	98	90 - 110	7/31/01
Dissolved Zinc		mg/L	0.50	0.512	102	90 - 110	7/31/01

Volatile Organic Samples and Trip Blank Results
Volatile Organic Samples and Trip Blank Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 27, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175644	0154-DRW03-0701-TB	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175646	0154-DRW03-0701-QC-TB	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175648	0154-DRW04-0701-TB	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175650	0154-HCF05-0701-TB	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175652	0154-HCF05-0701-QC-TB	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175654	0154-HCF07-0701-TB	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175695	0154-DRW01-0701-TB	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175697	0154-DRW02-0701-TB	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175699	0154-DRW05-0701-TB	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175701	0154-DRW12-0701-TB	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175703	0154-DRW13-0701-TB	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175855	0154-HCF01-0701-TB	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01
175857	0154-DRW16-0701-TB	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 55 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Arul

Director, Dr. Blair Leftwich

"THIS PAGE INTENTIONALLY LEFT BLANK"

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC12912	Date Analyzed:	7/26/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11045	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		2.78	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		4.34	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		57.2	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		1.19	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		6.92	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		4.43	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		10.3	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		6.13	µg/L	1	1
m,p-Xylene		3.03	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		3.52	µg/L	1	1

Continued . . .

... *Continued* Sample: 175643 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		4.43	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		1.50	μg/L	1	1
1,3,5-Trimethylbenzene		3.38	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		5.39	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		2.77	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		1.14	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		62.6	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.68	μg/L	1	50	97	88 - 112
Toluene-d8		49.85	μg/L	1	50	99	90 - 109
4-Bromofluorobenzene		50.43	μg/L	1	50	100	84 - 103

Sample: 175644 - 0154-DRW03-0701-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13023	Date Analyzed:	7/27/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11129	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone	1	32.3	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5

Continued ...

[1] possible lab contamination

... *Continued* Sample: 175644 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.07	µg/L	1	50	96	88 - 112
Toluene-d8		49.76	µg/L	1	50	99	90 - 109
4-Bromofluorobenzene		49.20	µg/L	1	50	98	84 - 103

Sample: 175645 - 0154-DRW03-0701-QC

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC12912	Date Analyzed:	7/26/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11045	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		3.03	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		4.77	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		62.3	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		1.07	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		7.85	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		4.10	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		11.9	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 175645 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		6.90	µg/L	1	1
m,p-Xylene		3.47	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		3.83	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		5.06	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		1.70	µg/L	1	1
1,3,5-Trimethylbenzene		3.88	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		6.38	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		3.04	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		1.01	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		1.12	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		64.6	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.99	µg/L	1	50	95	88 - 112
Toluene-d8		49.82	µg/L	1	50	99	90 - 109
4-Bromofluorobenzene		50.93	µg/L	1	50	101	84 - 103

Sample: 175646 - 0154-DRW03-0701-QC-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13023	Date Analyzed:	7/27/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11129	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone	2	21.6	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5

Continued ...

[2] possible lab contamination

... *Continued* Sample: 175646 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... Continued Sample: 175646 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.32	μg/L	1	50	96	88 - 112
Toluene-d8		49.56	μg/L	1	50	99	90 - 109
4-Bromofluorobenzene		48.54	μg/L	1	50	97	84 - 103

Sample: 175647 - 0154-DRW04-0701

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13023	Date Analyzed:	7/27/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11129	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		1.79	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		4.57	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		29.0	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		5.51	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1

Continued ...

... Continued Sample: 175647 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		3.17	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		3.41	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		6.67	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.31	μg/L	1	50	96	88 - 112
Toluene-d8		49.75	μg/L	1	50	99	90 - 109
4-Bromofluorobenzene		50.02	μg/L	1	50	100	84 - 103

Sample: 175648 - 0154-DRW04-0701-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13023	Date Analyzed:	7/27/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11129	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 175648 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone	3	22.5	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1

Continued ...

[3] possible lab contamination

... *Continued* Sample: 175648 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.08	µg/L	1	50	96	88 - 112
Toluene-d8		49.59	µg/L	1	50	99	90 - 109
4-Bromofluorobenzene		49.17	µg/L	1	50	98	84 - 103

Sample: 175649 - 0154-HCF05-0701

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13023	Date Analyzed:	7/27/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11129	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		1.74	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		5.34	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		37.1	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		31.6	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 175649 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		1.45	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		9.07	µg/L	1	1
m,p-Xylene		5.80	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		3.38	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		10.6	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		10.7	µg/L	1	1
1,3,5-Trimethylbenzene		8.02	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		25.2	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		7.29	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		3.45	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		4.44	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		151	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.15	µg/L	1	50	96	88 - 112
Toluene-d8		49.61	µg/L	1	50	99	90 - 109
4-Bromofluorobenzene		50.47	µg/L	1	50	100	84 - 103

Sample: 175650 - 0154-HCF05-0701-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13073	Date Analyzed:	8/2/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11166	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone	[4]	53.9	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1

Continued ...

[4] possible lab contamination

... *Continued* Sample: 175650 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.21	μg/L	1	50	102	88 - 112
Toluene-d8		50.18	μg/L	1	50	100	90 - 109
4-Bromofluorobenzene		47.61	μg/L	1	50	95	84 - 103

Sample: 175651 - 0154-HCF05-0701-QC

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13070	Date Analyzed:	7/31/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11163	Date Prepared:	7/31/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		2.05	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		5.24	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		36.6	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 175651 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,1,1-Trichloroethane		1.29	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		29.8	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		2.21	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		8.14	μg/L	1	1
m,p-Xylene		6.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		3.41	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		10.4	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		9.19	μg/L	1	1
1,3,5-Trimethylbenzene		7.62	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		20.3	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		6.80	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		2.99	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		3.18	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		61.8	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.57	μg/L	1	50	103	88 - 112
Toluene-d8		49.26	μg/L	1	50	98	90 - 109
4-Bromofluorobenzene		44.15	μg/L	1	50	88	84 - 103

Sample: 175652 - 0154-HCF05-0701-QC-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13073	Date Analyzed:	8/2/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11166	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone	[5]	51.5	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1

Continued ...

[5] possible lab contamination

... Continued Sample: 175652 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		45.63	µg/L	1	50	91	88 - 112
Toluene-d8		50.25	µg/L	1	50	100	90 - 109
4-Bromofluorobenzene		47.09	µg/L	1	50	94	84 - 103

Sample: 175653 - 0154-HCF07-0701

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13073	Date Analyzed:	8/2/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11166	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<10.0	µg/L	10	1
Dichlorodifluoromethane		<10.0	µg/L	10	1
Chloromethane (methyl chloride)		<10.0	µg/L	10	1
Vinyl Chloride		<10.0	µg/L	10	1
Bromomethane (methyl bromide)		<50.0	µg/L	10	5
Chloroethane		<10.0	µg/L	10	1
Trichlorofluoromethane		<10.0	µg/L	10	1
Acetone		<100	µg/L	10	10
Iodomethane (methyl iodide)		<50.0	µg/L	10	5
Carbon Disulfide		<10.0	µg/L	10	1
Acrylonitrile		<10.0	µg/L	10	1
2-Butanone (MEK)		<50.0	µg/L	10	5
4-methyl-2-pentanone (MIBK)		<50.0	µg/L	10	5
2-hexanone		<50.0	µg/L	10	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10	10
1,1-Dichloroethene		<10.0	µg/L	10	1
Methylene chloride		<50.0	µg/L	10	5
MTBE		<10.0	µg/L	10	1
trans-1,2-Dichloroethene		<10.0	µg/L	10	1
1,1-Dichloroethane		74.7	µg/L	10	1

Continued ...

... *Continued* Sample: 175653 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
cis-1,2-Dichloroethene		<10.0	μg/L	10	1
2,2-Dichloropropane		<10.0	μg/L	10	1
1,2-Dichloroethane (EDC)		<10.0	μg/L	10	1
Chloroform		<10.0	μg/L	10	1
1,1,1-Trichloroethane		<10.0	μg/L	10	1
1,1-Dichloropropene		<10.0	μg/L	10	1
Benzene		56.5	μg/L	10	1
Carbon Tetrachloride		<10.0	μg/L	10	1
1,2-Dichloropropane		<10.0	μg/L	10	1
Trichloroethene (TCE)		<10.0	μg/L	10	1
Dibromomethane (methylene bromide)		<10.0	μg/L	10	1
Bromodichloromethane		<10.0	μg/L	10	1
2-Chloroethyl vinyl ether		<50.0	μg/L	10	5
cis-1,3-Dichloropropene		<10.0	μg/L	10	1
trans-1,3-Dichloropropene		<10.0	μg/L	10	1
Toluene		233	μg/L	10	1
1,1,2-Trichloroethane		<10.0	μg/L	10	1
1,3-Dichloropropane		<10.0	μg/L	10	1
Dibromochloromethane		<10.0	μg/L	10	1
1,2-Dibromoethane (EDB)		<10.0	μg/L	10	1
Tetrachloroethene (PCE)		<10.0	μg/L	10	1
Chlorobenzene		<10.0	μg/L	10	1
1,1,1,2-Tetrachloroethane		<10.0	μg/L	10	1
Ethylbenzene		331	μg/L	10	1
m,p-Xylene		1378	μg/L	10	1
Bromoform		<10.0	μg/L	10	1
Styrene		<10.0	μg/L	10	1
o-Xylene		730	μg/L	10	1
1,1,2,2-Tetrachloroethane		<10.0	μg/L	10	1
2-Chlorotoluene		<10.0	μg/L	10	1
1,2,3-Trichloropropane		<10.0	μg/L	10	1
Isopropylbenzene		36.8	μg/L	10	1
Bromobenzene		<10.0	μg/L	10	1
n-Propylbenzene		62.6	μg/L	10	1
1,3,5-Trimethylbenzene		191	μg/L	10	1
tert-Butylbenzene		<10.0	μg/L	10	1
1,2,4-Trimethylbenzene		664	μg/L	10	1
1,4-Dichlorobenzene (para)		<10.0	μg/L	10	1
sec-Butylbenzene		19.7	μg/L	10	1
1,3-Dichlorobenzene		<10.0	μg/L	10	1
p-Isopropyltoluene		15.2	μg/L	10	1
4-Chlorotoluene		<10.0	μg/L	10	1
1,2-Dichlorobenzene (ortho)		<10.0	μg/L	10	1
n-Butylbenzene		15.6	μg/L	10	1
1,2-Dibromo-3-chloropropane		<50.0	μg/L	10	5
1,2,3-Trichlorobenzene		<50.0	μg/L	10	5
1,2,4-Trichlorobenzene		<50.0	μg/L	10	5
Naphthalene		169	μg/L	10	5
Hexachlorobutadiene		<50.0	μg/L	10	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		45.99	μg/L	1	50	91	88 - 112
Toluene-d8		49.67	μg/L	1	50	99	90 - 109

Continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene		50.47	µg/L	1	50	100	84 - 103

Sample: 175654 - 0154-HCF07-0701-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13073	Date Analyzed:	8/2/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11166	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone	6	14.2	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1

Continued ...

[6] possible lab contamination

... Continued Sample: 175654 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		44.43	µg/L	1	50	88	88 - 112
Toluene-d8		48.68	µg/L	1	50	97	90 - 109
4-Bromofluorobenzene		48.23	µg/L	1	50	96	84 - 103

Sample: 175694 - 0154-DRW01-0701

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13070	Date Analyzed:	7/31/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11163	Date Prepared:	7/31/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5

Continued ...

... *Continued* Sample: 175694 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		1.94	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		9.59	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		30.1	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		23.1	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		1.35	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		5.67	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		4.26	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		3.46	μg/L	1	1
1,3,5-Trimethylbenzene		1.39	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		5.92	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		4.27	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		1.41	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		48.7	μg/L	1	5

Continued ...

... Continued Sample: 175694 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.56	µg/L	1	50	107	88 - 112
Toluene-d8		48.52	µg/L	1	50	97	90 - 109
4-Bromofluorobenzene		46.78	µg/L	1	50	93	84 - 103

Sample: 175695 - 0154-DRW01-0701-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13073	Date Analyzed:	8/2/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11166	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 175695 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane	[7]	43.38	μg/L	1	50	86	88 - 112
Toluene-d8		49.12	μg/L	1	50	98	90 - 109
4-Bromofluorobenzene		47.73	μg/L	1	50	95	84 - 103

Sample: 175696 - 0154-DRW02-0701

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13073	Date Analyzed:	8/2/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11166	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<10.0	μg/L	10	1
Dichlorodifluoromethane		<10.0	μg/L	10	1
Chloromethane (methyl chloride)		<10.0	μg/L	10	1
Vinyl Chloride		<10.0	μg/L	10	1
Bromomethane (methyl bromide)		<50.0	μg/L	10	5
Chloroethane		<10.0	μg/L	10	1
Trichlorofluoromethane		<10.0	μg/L	10	1

Continued ...

[7]Surrogate below standard range. Other surrogates show process is in control.

... *Continued* Sample: 175696 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Acetone		<100	μg/L	10	10
Iodomethane (methyl iodide)		<50.0	μg/L	10	5
Carbon Disulfide		<10.0	μg/L	10	1
Acrylonitrile		<10.0	μg/L	10	1
2-Butanone (MEK)		<50.0	μg/L	10	5
4-methyl-2-pentanone (MIBK)		<50.0	μg/L	10	5
2-hexanone		<50.0	μg/L	10	5
trans 1,4-Dichloro-2-butene		<100	μg/L	10	10
1,1-Dichloroethene		<10.0	μg/L	10	1
Methylene chloride		<50.0	μg/L	10	5
MTBE		<10.0	μg/L	10	1
trans-1,2-Dichloroethene		<10.0	μg/L	10	1
1,1-Dichloroethane		82.4	μg/L	10	1
cis-1,2-Dichloroethene		<10.0	μg/L	10	1
2,2-Dichloropropane		<10.0	μg/L	10	1
1,2-Dichloroethane (EDC)		<10.0	μg/L	10	1
Chloroform		<10.0	μg/L	10	1
1,1,1-Trichloroethane		<10.0	μg/L	10	1
1,1-Dichloropropene		<10.0	μg/L	10	1
Benzene		59.6	μg/L	10	1
Carbon Tetrachloride		<10.0	μg/L	10	1
1,2-Dichloropropane		<10.0	μg/L	10	1
Trichloroethene (TCE)		<10.0	μg/L	10	1
Dibromomethane (methylene bromide)		<10.0	μg/L	10	1
Bromodichloromethane		<10.0	μg/L	10	1
2-Chloroethyl vinyl ether		<50.0	μg/L	10	5
cis-1,3-Dichloropropene		<10.0	μg/L	10	1
trans-1,3-Dichloropropene		<10.0	μg/L	10	1
Toluene		<10.0	μg/L	10	1
1,1,2-Trichloroethane		<10.0	μg/L	10	1
1,3-Dichloropropane		<10.0	μg/L	10	1
Dibromochloromethane		<10.0	μg/L	10	1
1,2-Dibromoethane (EDB)		<10.0	μg/L	10	1
Tetrachloroethene (PCE)		<10.0	μg/L	10	1
Chlorobenzene		<10.0	μg/L	10	1
1,1,1,2-Tetrachloroethane		<10.0	μg/L	10	1
Ethylbenzene		10.1	μg/L	10	1
m,p-Xylene		<10.0	μg/L	10	1
Bromoform		<10.0	μg/L	10	1
Styrene		<10.0	μg/L	10	1
o-Xylene		24.0	μg/L	10	1
1,1,2,2-Tetrachloroethane		<10.0	μg/L	10	1
2-Chlorotoluene		<10.0	μg/L	10	1
1,2,3-Trichloropropane		<10.0	μg/L	10	1
Isopropylbenzene		77.8	μg/L	10	1
Bromobenzene		<10.0	μg/L	10	1
n-Propylbenzene		35.0	μg/L	10	1
1,3,5-Trimethylbenzene		146	μg/L	10	1
tert-Butylbenzene		<10.0	μg/L	10	1
1,2,4-Trimethylbenzene		601	μg/L	10	1
1,4-Dichlorobenzene (para)		<10.0	μg/L	10	1
sec-Butylbenzene		77.8	μg/L	10	1
1,3-Dichlorobenzene		<10.0	μg/L	10	1
p-Isopropyltoluene		29.5	μg/L	10	1

Continued ...

... *Continued* Sample: 175696 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
4-Chlorotoluene		<10.0	μg/L	10	1
1,2-Dichlorobenzene (ortho)		<10.0	μg/L	10	1
n-Butylbenzene		49.5	μg/L	10	1
1,2-Dibromo-3-chloropropane		<50.0	μg/L	10	5
1,2,3-Trichlorobenzene		<50.0	μg/L	10	5
1,2,4-Trichlorobenzene		<50.0	μg/L	10	5
Naphthalene		885	μg/L	10	5
Hexachlorobutadiene		<50.0	μg/L	10	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.19	μg/L	1	50	100	88 - 112
Toluene-d8		49.93	μg/L	1	50	99	90 - 109
4-Bromofluorobenzene		51.66	μg/L	1	50	103	84 - 103

Sample: 175697 - 0154-DRW02-0701-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13073	Date Analyzed:	8/2/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11166	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone	[8]	17.5	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1

Continued ...

[8] possible lab contamination

... *Continued* Sample: 175697 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		7.06	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		44.56	µg/L	1	50	89	88 - 112
Toluene-d8		48.59	µg/L	1	50	97	90 - 109
4-Bromofluorobenzene		49.85	µg/L	1	50	99	84 - 103

Sample: 175698 - 0154-DRW05-0701

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13173	Date Analyzed:	8/7/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11261	Date Prepared:	8/7/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 175698 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone	[9]	21.3	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		39.0	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		4.86	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		4.70	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1

Continued ...

[9] concentration due to possible lab contamination

... *Continued* Sample: 175698 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		3.22	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		18.7	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.03	μg/L	1	50	98	88 - 112
Toluene-d8		48.99	μg/L	1	50	97	90 - 109
4-Bromofluorobenzene		46.01	μg/L	1	50	92	84 - 103

Sample: 175699 - 0154-DRW05-0701-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13073	Date Analyzed:	8/2/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11166	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone	[10]	28.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1

Continued ...

[10] possible lab contamination

... *Continued* Sample: 175699 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.30	μg/L	1	50	94	88 - 112
Toluene-d8		48.00	μg/L	1	50	96	90 - 109
4-Bromofluorobenzene		48.91	μg/L	1	50	97	84 - 103

Sample: 175700 - 0154-DRW12-0701

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13073	Date Analyzed:	8/2/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11166	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		5.78	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 175700 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		45.67	μg/L	1	50	91	88 - 112
Toluene-d8		49.17	μg/L	1	50	98	90 - 109
4-Bromofluorobenzene		48.91	μg/L	1	50	97	84 - 103

Sample: 175701 - 0154-DRW12-0701-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13073	Date Analyzed:	8/2/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11166	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone	[11]	18.8	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1

Continued ...

[11] possible lab contamination

... *Continued* Sample: 175701 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.43	μg/L	1	50	94	88 - 112
Toluene-d8		49.02	μg/L	1	50	98	90 - 109

Continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene		48.75	µg/L	1	50	97	84 - 103

Sample: 175702 - 0154-DRW13-0701

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13073	Date Analyzed:	8/2/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11166	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		3.84	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		1.73	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1

Continued ...

... Continued Sample: 175702 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.83	μg/L	1	50	95	88 - 112
Toluene-d8		49.41	μg/L	1	50	98	90 - 109
4-Bromofluorobenzene		48.11	μg/L	1	50	96	84 - 103

Sample: 175703 - 0154-DRW13-0701-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13073	Date Analyzed:	8/2/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11166	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone	[12]	20.9	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10

Continued ...

[12] possible lab contamination

... *Continued* Sample: 175703 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.23	μg/L	1	50	94	88 - 112
Toluene-d8		49.59	μg/L	1	50	99	90 - 109
4-Bromofluorobenzene		49.28	μg/L	1	50	98	84 - 103

Sample: 175854 - 0154-HCF01-0701

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13173	Date Analyzed:	8/7/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11261	Date Prepared:	8/7/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone	13	17.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		1.99	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1

Continued ...

[13] concentration due to possible lab contamination

... Continued Sample: 175854 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		5.28	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		1.02	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		4.11	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		52.9	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.59	μg/L	1	50	99	88 - 112
Toluene-d8		48.67	μg/L	1	50	97	90 - 109
4-Bromofluorobenzene		47.91	μg/L	1	50	95	84 - 103

Sample: 175855 - 0154-HCF01-0701-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13173	Date Analyzed:	8/7/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11261	Date Prepared:	8/7/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone	14	84.9	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		2.65	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1

Continued ...

[14] concentration due to possible lab contamination

... *Continued* Sample: 175855 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5

Continued ...

... Continued Sample: 175855 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.55	μg/L	1	50	103	88 - 112
Toluene-d8		48.51	μg/L	1	50	97	90 - 109
4-Bromofluorobenzene		47.84	μg/L	1	50	95	84 - 103

Sample: 175856 - 0154-DRW16-0701

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13173	Date Analyzed:	8/7/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11261	Date Prepared:	8/7/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone	[15]	15.6	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		9.73	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1

Continued ...

[15] concentration due to possible lab contamination

... Continued Sample: 175856 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.15	µg/L	1	50	104	88 - 112
Toluene-d8		49.05	µg/L	1	50	98	90 - 109
4-Bromofluorobenzene		46.32	µg/L	1	50	92	84 - 103

Sample: 175857 - 0154-DRW16-0701-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC13173	Date Analyzed:	8/7/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB11261	Date Prepared:	8/7/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 175857 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone	[16]	26.2	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1

Continued ...

[16] concentration due to possible lab contamination

... Continued Sample: 175857 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	5
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.78	μg/L	1	50	103	88 - 112
Toluene-d8		49.10	μg/L	1	50	98	90 - 109
4 Bromofluorobenzene		45.63	μg/L	1	50	91	84 - 103

Quality Control Report
Method Blank

Method Blank QCBatch: QC12912

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1	µg/L	1
Dichlorodifluoromethane		<1	µg/L	1
Chloromethane (methyl chloride)		<1	µg/L	1
Vinyl Chloride		<1	µg/L	1
Bromomethane (methyl bromide)		<5	µg/L	5
Chloroethane		<1	µg/L	1
Trichlorofluoromethane		<1	µg/L	1
Acetone		<10	µg/L	10
Iodomethane (methyl iodide)		<5	µg/L	5
Carbon Disulfide		<1	µg/L	1
Acrylonitrile		<1	µg/L	1
2-Butanone (MEK)		<5	µg/L	5
4-methyl-2-pentanone (MIBK)		<5	µg/L	5
2-hexanone		<5	µg/L	5
trans 1,4-Dichloro-2-butene		<10	µg/L	10
1,1-Dichloroethene		<1	µg/L	1
Methylene chloride		<5	µg/L	5
MTBE		<1	µg/L	1
trans-1,2-Dichloroethene		<1	µg/L	1
1,1-Dichloroethane		<1	µg/L	1
cis-1,2-Dichloroethene		<1	µg/L	1
2,2-Dichloropropane		<1	µg/L	1
1,2-Dichloroethane (EDC)		<1	µg/L	1
Chloroform		<1	µg/L	1
1,1,1-Trichloroethane		<1	µg/L	1
1,1-Dichloropropene		<1	µg/L	1
Benzene		<1	µg/L	1
Carbon Tetrachloride		<1	µg/L	1
1,2-Dichloropropane		<1	µg/L	1
Trichloroethene (TCE)		<1	µg/L	1
Dibromomethane (methylene bromide)		<1	µg/L	1
Bromodichloromethane		<1	µg/L	1
2-Chloroethyl vinyl ether		<5	µg/L	5
cis-1,3-Dichloropropene		<1	µg/L	1
trans-1,3-Dichloropropene		<1	µg/L	1
Toluene		<1	µg/L	1
1,1,2-Trichloroethane		<1	µg/L	1
1,3-Dichloropropane		<1	µg/L	1
Dibromochloromethane		<1	µg/L	1
1,2-Dibromoethane (EDB)		<1	µg/L	1
Tetrachloroethene (PCE)		<1	µg/L	1
Chlorobenzene		<1	µg/L	1
1,1,1,2-Tetrachloroethane		<1	µg/L	1
Ethylbenzene		<1	µg/L	1
m,p-Xylene		<1	µg/L	1
Bromoform		<1	µg/L	1
Styrene		<1	µg/L	1
o-Xylene		<1	µg/L	1

Continued ...

... Continued

Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1	μg/L	1
2-Chlorotoluene		<1	μg/L	1
1,2,3-Trichloropropane		<1	μg/L	1
Isopropylbenzene		<1	μg/L	1
Bromobenzene		<1	μg/L	1
n-Propylbenzene		<1	μg/L	1
1,3,5-Trimethylbenzene		<1	μg/L	1
tert-Butylbenzene		<1	μg/L	1
1,2,4-Trimethylbenzene		<1	μg/L	1
1,4-Dichlorobenzene (para)		<1	μg/L	1
sec-Butylbenzene		<1	μg/L	1
1,3-Dichlorobenzene		<1	μg/L	1
p-Isopropyltoluene		<1	μg/L	1
4-Chlorotoluene		<1	μg/L	1
1,2-Dichlorobenzene (ortho)		<1	μg/L	1
n-Butylbenzene		<1	μg/L	1
1,2-Dibromo-3-chloropropane		<5	μg/L	5
1,2,3-Trichlorobenzene		<5	μg/L	5
1,2,4-Trichlorobenzene		<5	μg/L	5
Naphthalene		<5	μg/L	5
Hexachlorobutadiene		<5	μg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.65	μg/L	1	100	103	88 - 112
Toluene-d8		50.71	μg/L	1	100	101	90 - 109
4-Bromofluorobenzene		46.55	μg/L	1	100	93	84 - 103

Method Blank

QCBatch: QC13023

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	μg/L	1
Dichlorodifluoromethane		<1.00	μg/L	1
Chloromethane (methyl chloride)		<1.00	μg/L	1
Vinyl Chloride		<1.00	μg/L	1
Bromomethane (methyl bromide)		<5.00	μg/L	5
Chloroethane		<1.00	μg/L	1
Trichlorofluoromethane		<1.00	μg/L	1
Acetone		<10.0	μg/L	10
Iodomethane (methyl iodide)		<5.00	μg/L	5
Carbon Disulfide		<1.00	μg/L	1
Acrylonitrile		<1.00	μg/L	1
2-Butanone (MEK)		<5.00	μg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	5
2-hexanone		<5.00	μg/L	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	10
1,1-Dichloroethene		<1.00	μg/L	1
Methylene chloride		<5.00	μg/L	5
MTBE		<1.00	μg/L	1

Continued ...

. . . Continued

Param	Flag	Results	Units	Reporting Limit
trans-1,2-Dichloroethene		<1.00	μg/L	1
1,1-Dichloroethane		<1.00	μg/L	1
cis-1,2-Dichloroethene		<1.00	μg/L	1
2,2-Dichloropropane		<1.00	μg/L	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1
Chloroform		<1.00	μg/L	1
1,1,1-Trichloroethane		<1.00	μg/L	1
1,1-Dichloropropene		<1.00	μg/L	1
Benzene		<1.00	μg/L	1
Carbon Tetrachloride		<1.00	μg/L	1
1,2-Dichloropropane		<1.00	μg/L	1
Trichloroethene (TCE)		<1.00	μg/L	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1
Bromodichloromethane		<1.00	μg/L	1
2-Chloroethyl vinyl ether		<5.00	μg/L	5
cis-1,3-Dichloropropene		<1.00	μg/L	1
trans-1,3-Dichloropropene		<1.00	μg/L	1
Toluene		<1.00	μg/L	1
1,1,2-Trichloroethane		<1.00	μg/L	1
1,3-Dichloropropane		<1.00	μg/L	1
Dibromochloromethane		<1.00	μg/L	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1
Tetrachloroethene (PCE)		<1.00	μg/L	1
Chlorobenzene		<1.00	μg/L	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1
Ethylbenzene		<1.00	μg/L	1
m,p-Xylene		<1.00	μg/L	1
Bromoform		<1.00	μg/L	1
Styrene		<1.00	μg/L	1
o-Xylene		<1.00	μg/L	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1
2-Chlorotoluene		<1.00	μg/L	1
1,2,3-Trichloropropane		<1.00	μg/L	1
Isopropylbenzene		<1.00	μg/L	1
Bromobenzene		<1.00	μg/L	1
n-Propylbenzene		<1.00	μg/L	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1
tert-Butylbenzene		<1.00	μg/L	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1
sec-Butylbenzene		<1.00	μg/L	1
1,3-Dichlorobenzene		<1.00	μg/L	1
p-Isopropyltoluene		<1.00	μg/L	1
4-Chlorotoluene		<1.00	μg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1
n-Butylbenzene		<1.00	μg/L	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	5
1,2,3-Trichlorobenzene		<5.00	μg/L	5
1,2,4-Trichlorobenzene		<5.00	μg/L	5
Naphthalene		<5.00	μg/L	5
Hexachlorobutadiene		<5.00	μg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.05	µg/L	1	50	94	88 - 112
Toluene-d8		49.38	µg/L	1	50	98	90 - 109
4-Bromofluorobenzene		49.37	µg/L	1	50	98	84 - 103

Method Blank

QCBatch: QC13070

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1

Continued ...

... Continued

Param	Flag	Results	Units	Reporting Limit
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	5
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.82	µg/L	1	50	105	88 - 112
Toluene-d8		47.59	µg/L	1	50	95	90 - 109
4-Bromofluorobenzene		45.18	µg/L	1	50	90	84 - 103

Method Blank

QCBatch: QC13073

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5

Continued ...

... Continued

Param	Flag	Results	Units	Reporting Limit
trans 1,4-Dichloro-2-butene		<10.0	μg/L	10
1,1-Dichloroethene		<1.00	μg/L	1
Methylene chloride		<5.00	μg/L	5
MTBE		<1.00	μg/L	1
trans-1,2-Dichloroethene		<1.00	μg/L	1
1,1-Dichloroethane		<1.00	μg/L	1
cis-1,2-Dichloroethene		<1.00	μg/L	1
2,2-Dichloropropane		<1.00	μg/L	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1
Chloroform		<1.00	μg/L	1
1,1,1-Trichloroethane		<1.00	μg/L	1
1,1-Dichloropropene		<1.00	μg/L	1
Benzene		<1.00	μg/L	1
Carbon Tetrachloride		<1.00	μg/L	1
1,2-Dichloropropane		<1.00	μg/L	1
Trichloroethene (TCE)		<1.00	μg/L	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1
Bromodichloromethane		<1.00	μg/L	1
2-Chloroethyl vinyl ether		<5.00	μg/L	5
cis-1,3-Dichloropropene		<1.00	μg/L	1
trans-1,3-Dichloropropene		<1.00	μg/L	1
Toluene		<1.00	μg/L	1
1,1,2-Trichloroethane		<1.00	μg/L	1
1,3-Dichloropropane		<1.00	μg/L	1
Dibromochloromethane		<1.00	μg/L	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1
Tetrachloroethene (PCE)		<1.00	μg/L	1
Chlorobenzene		<1.00	μg/L	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1
Ethylbenzene		<1.00	μg/L	1
m,p-Xylene		<1.00	μg/L	1
Bromoform		<1.00	μg/L	1
Styrene		<1.00	μg/L	1
o-Xylene		<1.00	μg/L	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1
2-Chlorotoluene		<1.00	μg/L	1
1,2,3-Trichloropropane		<1.00	μg/L	1
Isopropylbenzene		<1.00	μg/L	1
Bromobenzene		<1.00	μg/L	1
n-Propylbenzene		<1.00	μg/L	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1
tert-Butylbenzene		<1.00	μg/L	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1
sec-Butylbenzene		<1.00	μg/L	1
1,3-Dichlorobenzene		<1.00	μg/L	1
p-Isopropyltoluene		<1.00	μg/L	1
4-Chlorotoluene		<1.00	μg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1
n-Butylbenzene		<1.00	μg/L	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	5
1,2,3-Trichlorobenzene		<5.00	μg/L	5
1,2,4-Trichlorobenzene		<5.00	μg/L	5

Continued ...

... Continued

Param	Flag	Results	Units	Reporting Limit
Naphthalene		<5.00	μg/L	5
Hexachlorobutadiene		<5.00	μg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.64	μg/L	1	50	103	88 - 112
Toluene-d8		50.15	μg/L	1	50	100	90 - 109
4-Bromofluorobenzene		47.18	μg/L	1	50	94	84 - 103

Method Blank

QCBatch: QC13173

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	μg/L	1
Dichlorodifluoromethane		<1.00	μg/L	1
Chloromethane (methyl chloride)		<1.00	μg/L	1
Vinyl Chloride		<1.00	μg/L	1
Bromomethane (methyl bromide)		<5.00	μg/L	5
Chloroethane		<1.00	μg/L	1
Trichlorofluoromethane		<1.00	μg/L	1
Acetone		<10.0	μg/L	10
Iodomethane (methyl iodide)		<5.00	μg/L	5
Carbon Disulfide		<1.00	μg/L	1
Acrylonitrile		<1.00	μg/L	1
2-Butanone (MEK)		<5.00	μg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	5
2-hexanone		<5.00	μg/L	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	10
1,1-Dichloroethene		<1.00	μg/L	1
Methylene chloride		<5.00	μg/L	5
MTBE		<1.00	μg/L	1
trans-1,2-Dichloroethene		<1.00	μg/L	1
1,1-Dichloroethane		<1.00	μg/L	1
cis-1,2-Dichloroethene		<1.00	μg/L	1
2,2-Dichloropropane		<1.00	μg/L	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1
Chloroform		<1.00	μg/L	1
1,1,1-Trichloroethane		<1.00	μg/L	1
1,1-Dichloropropene		<1.00	μg/L	1
Benzene		<1.00	μg/L	1
Carbon Tetrachloride		<1.00	μg/L	1
1,2-Dichloropropane		<1.00	μg/L	1
Trichloroethene (TCE)		<1.00	μg/L	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1
Bromodichloromethane		<1.00	μg/L	1
2-Chloroethyl vinyl ether		<5.00	μg/L	5
cis-1,3-Dichloropropene		<1.00	μg/L	1
trans 1,3-Dichloropropene		<1.00	μg/L	1
Toluene		<1.00	μg/L	1
1,1,2-Trichloroethane		<1.00	μg/L	1

Continued ...

... Continued

Param	Flag	Results	Units	Reporting Limit
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	5
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		54.94	µg/L	1	50	109	88 - 112
Toluene-d8		48.86	µg/L	1	50	97	90 - 109
4-Bromofluorobenzene		45.85	µg/L	1	50	91	84 - 103

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC12912

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	118	116	µg/L	1	100	<1	118	1	74 - 127	20
Benzene	103	101	µg/L	1	100	<1	103	1	89 - 114	20
Trichloroethene (TCE)	92	92	µg/L	1	100	<1	92	0	77 - 102	20
Toluene	102	100	µg/L	1	100	<1	102	1	87 - 111	20

Continued ...

... Continued

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chlorobenzene	101	98	μg/L	1	100	<1	101	3	87 - 109	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	51.73	52.58	μg/L	1	100	103	105	88 - 112
Toluene-d8	48.22	49.05	μg/L	1	100	96	98	90 - 109
4-Bromofluorobenzene	47.14	47.16	μg/L	1	100	94	94	84 - 103

Laboratory Control Spikes

QCBatch: QC13023

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	99	101	μg/L	1	100	<1.00	99	2	74 - 127	20
Benzene	95	96	μg/L	1	100	<1.00	95	1	89 - 114	20
Trichloroethene (TCE)	90	91	μg/L	1	100	<1.00	90	1	77 - 102	20
Toluene	94	95	μg/L	1	100	<1.00	94	1	87 - 111	20
Chlorobenzene	93	95	μg/L	1	100	<1.00	93	2	87 - 109	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	47.42	47.26	μg/L	1	50	94	94	88 - 112
Toluene-d8	48.03	48.10	μg/L	1	50	96	96	90 - 109
4-Bromofluorobenzene	49.42	48.83	μg/L	1	50	98	97	84 - 103

Laboratory Control Spikes

QCBatch: QC13070

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	106	105	μg/L	1	100	<1.00	106	0	74 - 127	20
Benzene	96	92	μg/L	1	100	<1.00	96	4	89 - 114	20
Trichloroethene (TCE)	89	85	μg/L	1	100	<1.00	89	4	77 - 102	20
Toluene	95	89	μg/L	1	100	<1.00	95	6	87 - 111	20
Chlorobenzene	95	91	μg/L	1	100	<1.00	95	4	87 - 109	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	48.33	49.02	μg/L	1	50	96	98	88 - 112
Toluene-d8	48.40	49.38	μg/L	1	50	96	98	90 - 109
4-Bromofluorobenzene	47.88	46.42	μg/L	1	50	95	92	84 - 103

Laboratory Control Spikes

QCBatch: QC13073

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	83	84	μg/L	1	100	<1.00	83	1	74 - 127	20
Benzene	107	108	μg/L	1	100	<1.00	107	0	89 - 114	20
Trichloroethene (TCE)	91	91	μg/L	1	100	<1.00	91	0	77 - 102	20
Toluene	102	103	μg/L	1	100	<1.00	102	0	87 - 111	20
Chlorobenzene	106	106	μg/L	1	100	<1.00	106	0	87 - 109	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	46.13	45.88	μg/L	1	50	92	91	88 - 112
Toluene-d8	49.76	49.85	μg/L	1	50	99	99	90 - 109
4-Bromofluorobenzene	48.10	47.82	μg/L	1	50	96	95	84 - 103

Laboratory Control Spikes

QCBatch: QC13173

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	113	113	μg/L	1	100	<1.00	113	0	74 - 127	20
Benzene	98	99	μg/L	1	100	<1.00	98	1	89 - 114	20
Trichloroethene (TCE)	88	90	μg/L	1	100	<1.00	88	2	77 - 102	20
Toluene	96	96	μg/L	1	100	<1.00	96	0	87 - 111	20
Chlorobenzene	98	97	μg/L	1	100	<1.00	98	1	87 - 109	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	50.05	50	μg/L	1	50	100	100	88 - 112
Toluene-d8	50.97	50.48	μg/L	1	50	101	100	90 - 109
4-Bromofluorobenzene	48.12	47.37	μg/L	1	50	96	94	84 - 103

Quality Control Report
Matrix Spikes and Duplicate Spikes

Matrix Spikes

QCBatch: QC13173

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	112	111	μg/L	1	100	<1.00	112	0	80 - 120	20
Benzene	101	101	μg/L	1	100	1.99	99	0	80 - 120	20
Trichloroethene (TCE)	92	90	μg/L	1	100	<1.00	92	2	80 - 120	20
Toluene	99	97	μg/L	1	100	<1.00	99	2	80 - 120	20
Chlorobenzene	96	94	μg/L	1	100	<1.00	96	2	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
Dibromofluoromethane	50.06	51.57	µg/L	1	50	100	103	88 - 112
Toluene-d8	49.04	49.56	µg/L	1	50	98	99	90 - 109
4-Bromofluorobenzene	47.82	48.56	µg/L	1	50	95	97	84 - 103

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12912

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	95	95	80 - 120	7/26/01
1,1-Dichloroethene		µg/L	100	101	101	80 - 120	7/26/01
Chloroform		µg/L	100	103	103	80 - 120	7/26/01
1,2-Dichloropropane		µg/L	100	104	104	80 - 120	7/26/01
Toluene		µg/L	100	104	104	80 - 120	7/26/01
Chlorobenzene		µg/L	100	100	100	80 - 120	7/26/01
Ethylbenzene		µg/L	100	108	108	80 - 120	7/26/01
Dibromofluoromethane		µg/L	50	50.81	101	80 - 120	7/26/01
Toluene-d8		µg/L	50	49.09	98	80 - 120	7/26/01
4-Bromofluorobenzene		µg/L	50	51.74	103	80 - 120	7/26/01

CCV (1) QCBatch: QC13023

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	82	82	80 - 120	7/27/01
1,1-Dichloroethene		µg/L	100	95	95	80 - 120	7/27/01
Chloroform		µg/L	100	94	94	80 - 120	7/27/01
1,2-Dichloropropane		µg/L	100	97	97	80 - 120	7/27/01
Toluene		µg/L	100	99	99	80 - 120	7/27/01
Chlorobenzene		µg/L	100	99	99	80 - 120	7/27/01
Ethylbenzene		µg/L	100	104	104	80 - 120	7/27/01
Dibromofluoromethane		µg/L	50	45.98	91	80 - 120	7/27/01
Toluene-d8		µg/L	50	48.14	96	80 - 120	7/27/01
4-Bromofluorobenzene		µg/L	50	51.17	102	80 - 120	7/27/01

CCV (1) QCBatch: QC13070

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	102	102	80 - 120	7/31/01
1,1-Dichloroethene		µg/L	100	96	96	80 - 120	7/31/01
Chloroform		µg/L	100	92	92	80 - 120	7/31/01

Continued ...

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
1,2-Dichloropropane		µg/L	100	93	93	80 - 120	7/31/01
Toluene		µg/L	100	91	91	80 - 120	7/31/01
Chlorobenzene		µg/L	100	95	95	80 - 120	7/31/01
Ethylbenzene		µg/L	100	92	92	80 - 120	7/31/01
Dibromofluoromethane		µg/L	50	48.61	97	80 - 120	7/31/01
Toluene-d8		µg/L	50	48.62	97	80 - 120	7/31/01
4-Bromofluorobenzene		µg/L	50	48.92	97	80 - 120	7/31/01

CCV (1) QCBatch: QC13073

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	93	93	80 - 120	8/2/01
1,1-Dichloroethene		µg/L	100	85	85	80 - 120	8/2/01
Chloroform		µg/L	100	94	94	80 - 120	8/2/01
1,2-Dichloropropane		µg/L	100	106	106	80 - 120	8/2/01
Toluene		µg/L	100	98	98	80 - 120	8/2/01
Chlorobenzene		µg/L	100	101	101	80 - 120	8/2/01
Ethylbenzene		µg/L	100	106	106	80 - 120	8/2/01
Dibromofluoromethane		µg/L	50	50.70	101	80 - 120	8/2/01
Toluene-d8		µg/L	50	49.97	99	80 - 120	8/2/01
4-Bromofluorobenzene		µg/L	50	50.35	100	80 - 120	8/2/01

CCV (1) QCBatch: QC13173

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	119	119	80 - 120	8/7/01
1,1-Dichloroethene		µg/L	100	108	108	80 - 120	8/7/01
Chloroform		µg/L	100	104	104	80 - 120	8/7/01
1,2-Dichloropropane		µg/L	100	102	102	80 - 120	8/7/01
Toluene		µg/L	100	96	96	80 - 120	8/7/01
Chlorobenzene		µg/L	100	103	103	80 - 120	8/7/01
Ethylbenzene		µg/L	100	102	102	80 - 120	8/7/01
Dibromofluoromethane		µg/L	50	51.91	103	80 - 120	8/7/01
Toluene-d8		µg/L	50	50.07	100	80 - 120	8/7/01
4-Bromofluorobenzene		µg/L	50	48.43	96	80 - 120	8/7/01

Semi-Volatile Organic Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 27, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 37 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC13234	Date Analyzed:	7/28/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB11297	Date Prepared:	7/25/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		0.02	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		0.045	mg/L	1	0.005
2-Methylnaphthalene		0.04	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005

Continued ...

... *Continued* Sample: 175643 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		0.006	mg/L	1	0.005
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		0.006	mg/L	1	0.005
Anthracene		0.006	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		18.13	mg/L	1	80	22	21 - 100
Phenol-d5		15.69	mg/L	1	80	19	11 - 94
Nitrobenzene-d5		34.80	mg/L	1	80	43	35 - 114
2-Fluorobiphenyl		40.03	mg/L	1	80	50	43 - 116
2,4,6-Tribromophenol		36.73	mg/L	1	80	45	10 - 123
Terphenyl-d14		37.66	mg/L	1	80	47	33 - 141

Sample: 175645 - 0154-DRW03-0701-QC

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC13234	Date Analyzed:	7/28/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB11297	Date Prepared:	7/25/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		0.025	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		0.053	mg/L	1	0.005
2-Methylnaphthalene		0.062	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		0.007	mg/L	1	0.005

Continued ...

... *Continued* Sample: 175645 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		0.006	mg/L	1	0.005
Anthracene		0.007	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		26.15	mg/L	1	80	32	21 - 100
Phenol-d5		23.80	mg/L	1	80	29	11 - 94
Nitrobenzene-d5		46.92	mg/L	1	80	58	35 - 114
2-Fluorobiphenyl		51.03	mg/L	1	80	63	43 - 116
2,4,6-Tribromophenol		43.61	mg/L	1	80	54	10 - 123
Terphenyl-d14		49.95	mg/L	1	80	62	33 - 141

Sample: 175647 - 0154-DRW04-0701

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC13337	Date Analyzed:	8/13/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB11376	Date Prepared:	7/25/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		<0.005	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		0.039	mg/L	1	0.005
2-Methylnaphthalene		<0.005	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		0.012	mg/L	1	0.005

Continued ...

... *Continued* Sample: 175647 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		0.008	mg/L	1	0.005
Anthracene		0.009	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005
Test Comments		<0.005	mg/L	1	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		38.09	mg/L	1	80	47	21 - 100
Phenol-d5		31.47	mg/L	1	80	39	11 - 94
Nitrobenzene-d5		69.31	mg/L	1	80	86	35 - 114
2-Fluorobiphenyl		71.34	mg/L	1	80	89	43 - 116
2,4,6-Tribromophenol		81.82	mg/L	1	80	102	10 - 123
Terphenyl-d14		79.45	mg/L	1	80	99	33 - 141

Sample: 175649 - 0154-HCF05-0701

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC13337	Date Analyzed:	8/13/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB11376	Date Prepared:	7/25/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		0.05	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		0.1	mg/L	1	0.005
2-Methylnaphthalene		0.143	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		0.007	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		0.016	mg/L	1	0.005

Continued ...

... *Continued* Sample: 175649 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		0.01	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		0.018	mg/L	1	0.005
Anthracene		0.019	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		24.94	mg/L	1	80	31	21 - 100
Phenol-d5		18.27	mg/L	1	80	22	11 - 94
Nitrobenzene-d5		62.59	mg/L	1	80	78	35 - 114
2-Fluorobiphenyl		54.52	mg/L	1	80	68	43 - 116
2,4,6-Tribromophenol		47.25	mg/L	1	80	59	10 - 123
Terphenyl-d14		45.22	mg/L	1	80	56	33 - 141

Sample: 175651 - 0154-HCF05-0701-QC

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC13337	Date Analyzed:	8/13/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB11376	Date Prepared:	7/25/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		0.053	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		0.161	mg/L	1	0.005
2-Methylnaphthalene		0.107	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		0.007	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		0.016	mg/L	1	0.005

Continued ...

... Continued Sample: 175651 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		0.01	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		0.018	mg/L	1	0.005
Anthracene		0.019	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		31.50	mg/L	1	80	39	21 - 100
Phenol-d5		23.40	mg/L	1	80	29	11 - 94
Nitrobenzene-d5		69.36	mg/L	1	80	86	35 - 114
2-Fluorobiphenyl		58.29	mg/L	1	80	72	43 - 116
2,4,6-Tribromophenol		49.43	mg/L	1	80	61	10 - 123
Terphenyl-d14		51.73	mg/L	1	80	64	33 - 141

Sample: 175653 - 0154-HCF07-0701

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC13337	Date Analyzed:	8/13/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB11376	Date Prepared:	7/25/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		0.105	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		0.227	mg/L	1	0.005
2-Methylnaphthalene		0.158	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		<0.005	mg/L	1	0.005

Continued ...

... *Continued* Sample: 175653 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		0.133	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		24.54	mg/L	1	80	30	21 - 100
Phenol-d5		18	mg/L	1	80	22	11 - 94
Nitrobenzene-d5		92.43	mg/L	1	80	115	35 - 114
2-Fluorobiphenyl		36.42	mg/L	1	80	45	43 - 116
2,4,6-Tribromophenol		29.83	mg/L	1	80	37	10 - 123
Terphenyl-d14		28.83	mg/L	1	80	36	33 - 141

Sample: 175694 - 0154-DRW01-0701

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC13235	Date Analyzed:	7/30/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB11300	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		0.032	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		0.049	mg/L	1	0.005
2-Methylnaphthalene		0.125	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		0.012	mg/L	1	0.005

Continued ...

... *Continued* Sample: 175694 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		0.011	mg/L	1	0.005
Anthracene		0.011	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol	[1]	16.33	mg/L	1	80	20	21 - 100
Phenol-d5		12.71	mg/L	1	80	15	11 - 94
Nitrobenzene-d5		46.03	mg/L	1	80	57	35 - 114
2-Fluorobiphenyl		45.11	mg/L	1	80	56	43 - 116
2,4,6-Tribromophenol		46.75	mg/L	1	80	58	10 - 123
Terphenyl-d14		47.14	mg/L	1	80	58	33 - 141

[1]Sample surrogate recovery out of limits due to sample matrix.

Sample: 175696 - 0154-DRW02-0701

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC13235	Date Analyzed:	7/30/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB11300	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		0.098	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		0.401	mg/L	1	0.005
2-Methylnaphthalene		0.397	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		<0.005	mg/L	1	0.005

Continued ...

... Continued Sample: 175696 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		0.11	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol	[2]	16.12	mg/L	1	80	20	21 - 100
Phenol-d5		14.09	mg/L	1	80	17	11 - 94
Nitrobenzene-d5		60.12	mg/L	1	80	75	35 - 114
2-Fluorobiphenyl		29.93	mg/L	1	80	37	43 - 116
2,4,6-Tribromophenol		30.61	mg/L	1	80	38	10 - 123
Terphenyl-d14		33.74	mg/L	1	80	42	33 - 141

[2]Sample surrogate recovery out of limits due to sample matrix.

Sample: 175698 - 0154-DRW05-0701

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC13235	Date Analyzed:	7/30/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB11300	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		0.012	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		0.062	mg/L	1	0.005
2-Methylnaphthalene		0.043	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		0.008	mg/L	1	0.005

Continued ...

... *Continued* Sample: 175698 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		0.006	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		20.17	mg/L	1	80	25	21 - 100
Phenol-d5		14.80	mg/L	1	80	18	11 - 94
Nitrobenzene-d5		47.73	mg/L	1	80	59	35 - 114
2-Fluorobiphenyl		49.38	mg/L	1	80	61	43 - 116
2,4,6-Tribromophenol		54.83	mg/L	1	80	68	10 - 123
Terphenyl-d14		48.16	mg/L	1	80	60	33 - 141

Sample: 175700 - 0154-DRW12-0701

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC13235	Date Analyzed:	7/30/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB11300	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		<0.005	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		<0.005	mg/L	1	0.005
2-Methylnaphthalene		<0.005	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		<0.005	mg/L	1	0.005

Continued ...

... *Continued* Sample: 175700 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		24.96	mg/L	1	80	31	21 - 100
Phenol-d5		21.18	mg/L	1	80	26	11 - 94
Nitrobenzene-d5		49.01	mg/L	1	80	61	35 - 114
2-Fluorobiphenyl		47.56	mg/L	1	80	59	43 - 116
2,4,6-Tribromophenol		59.68	mg/L	1	80	74	10 - 123
Terphenyl-d14		53.70	mg/L	1	80	67	33 - 141

Sample: 175702 - 0154-DRW13-0701

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC13235	Date Analyzed:	7/30/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB11300	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		<0.005	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		<0.005	mg/L	1	0.005
2-Methylnaphthalene		<0.005	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		<0.005	mg/L	1	0.005

Continued ...

... *Continued* Sample: 175702 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		19.80	mg/L	1	80	24	21 - 100
Phenol-d5		14.89	mg/L	1	80	18	11 - 94
Nitrobenzene-d5		47.54	mg/L	1	80	59	35 - 114
2-Fluorobiphenyl		48.84	mg/L	1	80	61	43 - 116
2,4,6-Tribromophenol		58.43	mg/L	1	80	73	10 - 123
Terphenyl-d14		51.37	mg/L	1	80	64	33 - 141

Sample: 175854 - 0154-HCF01-0701

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC13235	Date Analyzed:	7/30/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB11300	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		0.026	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		0.085	mg/L	1	0.005
2-Methylnaphthalene		0.078	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		0.008	mg/L	1	0.005

Continued . . .

... *Continued* Sample: 175854 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		0.006	mg/L	1	0.005
Anthracene		0.007	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		25.87	mg/L	1	80	32	21 - 100
Phenol-d5		19.36	mg/L	1	80	24	11 - 94
Nitrobenzene-d5		55.15	mg/L	1	80	68	35 - 114
2-Fluorobiphenyl		55.06	mg/L	1	80	68	43 - 116
2,4,6-Tribromophenol		61.35	mg/L	1	80	76	10 - 123
Terphenyl-d14		58.07	mg/L	1	80	72	33 - 141

Sample: 175856 - 0154-DRW16-0701

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC13235	Date Analyzed:	7/30/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB11300	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		<0.005	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		<0.005	mg/L	1	0.005
2-Methylnaphthalene		<0.005	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		<0.005	mg/L	1	0.005

Continued ...

... *Continued* Sample: 175856 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		22.95	mg/L	1	80	28	21 - 100
Phenol-d5		17.37	mg/L	1	80	21	11 - 94
Nitrobenzene-d5		52.54	mg/L	1	80	65	35 - 114
2-Fluorobiphenyl		52.58	mg/L	1	80	65	43 - 116
2,4,6-Tribromophenol		60.09	mg/L	1	80	75	10 - 123
Terphenyl-d14		54.11	mg/L	1	80	67	33 - 141

Quality Control Report
Method Blank

Method Blank QCBatch: QC13234

Param	Flag	Results	Units	Reporting Limit
Pyridine		<0.005	mg/L	0.005
n-Nitrosodimethylamine		<0.005	mg/L	0.005
2-Picoline		<0.005	mg/L	0.005
Methyl methanesulfonate		<0.005	mg/L	0.005
Ethyl methanesulfonate		<0.005	mg/L	0.005
Phenol		<0.005	mg/L	0.005
Aniline		<0.005	mg/L	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	0.005
2-Chlorophenol		<0.005	mg/L	0.005
1,3-Dichlorobenzene		<0.005	mg/L	0.005
1,4-Dichlorobenzene		<0.005	mg/L	0.005
Benzyl alcohol		<0.005	mg/L	0.005
1,2-Dichlorobenzene		<0.005	mg/L	0.005
2-Methylphenol		<0.005	mg/L	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	0.005
Acetophenone		<0.005	mg/L	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	0.005
Hexachloroethane		<0.005	mg/L	0.005
Nitrobenzene		<0.005	mg/L	0.005
n-Nitrosopiperidine		<0.005	mg/L	0.005
Isophorone		<0.005	mg/L	0.005
2-Nitrophenol		<0.005	mg/L	0.005
2,4-Dimethylphenol		<0.005	mg/L	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	0.005
Benzoic acid		<0.005	mg/L	0.005
2,4-Dichlorophenol		<0.005	mg/L	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	0.005
Naphthalene		<0.005	mg/L	0.005
4-Chloroaniline		<0.005	mg/L	0.005
2,6-Dichlorophenol		<0.005	mg/L	0.005
Hexachlorobutadiene		<0.005	mg/L	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	0.005
1-Methylnaphthalene		<0.005	mg/L	0.005
2-Methylnaphthalene		<0.005	mg/L	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	0.005
2-Chloronaphthalene		<0.005	mg/L	0.005
1-Chloronaphthalene		<0.005	mg/L	0.005
2-Nitroaniline		<0.005	mg/L	0.005
Dimethylphthalate		<0.005	mg/L	0.005
Acenaphthylene		<0.005	mg/L	0.005
2,6-Dinitrotoluene		<0.005	mg/L	0.005
3-Nitroaniline		<0.005	mg/L	0.005

Continued ...

... Continued

Param	Flag	Results	Units	Reporting Limit
Acenaphthene		<0.005	mg/L	0.005
2,4-Dinitrophenol		<0.005	mg/L	0.005
Dibenzofuran		<0.005	mg/L	0.005
Pentachlorobenzene		<0.005	mg/L	0.005
4-Nitrophenol		<0.005	mg/L	0.005
1-Naphthylamine		<0.005	mg/L	0.005
2,4-Dinitrotoluene		<0.005	mg/L	0.005
2-Naphthylamine		<0.005	mg/L	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	0.005
Fluorene		<0.005	mg/L	0.005
Diethylphthalate		<0.005	mg/L	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	0.005
4-Nitroaniline		<0.005	mg/L	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	0.005
Diphenylamine		<0.005	mg/L	0.005
Diphenylhydrazine		<0.005	mg/L	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	0.005
Phenacetin		<0.005	mg/L	0.005
Hexachlorobenzene		<0.005	mg/L	0.005
4-Aminobiphenyl		<0.005	mg/L	0.005
Pentachlorophenol		<0.005	mg/L	0.005
Pentachloronitrobenzene		<0.005	mg/L	0.005
Pronamide		<0.005	mg/L	0.005
Phenanthrene		<0.005	mg/L	0.005
Anthracene		<0.005	mg/L	0.005
Di-n-butylphthalate		<0.005	mg/L	0.005
Fluoranthene		<0.005	mg/L	0.005
Benzidine		<0.005	mg/L	0.005
Pyrene		<0.005	mg/L	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	0.005
Butylbenzylphthalate		<0.005	mg/L	0.005
Benzo(a)anthracene		<0.005	mg/L	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	0.005
Chrysene		<0.005	mg/L	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	0.005
Di-n-octylphthalate		<0.005	mg/L	0.005
Benzo(b)fluoranthene		<0.005	mg/L	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	0.005
Benzo(k)fluoranthene		<0.005	mg/L	0.005
Benzo(a)pyrene		<0.005	mg/L	0.005
3-Methylcholanthrene		<0.005	mg/L	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		31.96	mg/L	1	80	39	21 - 100
Phenol-d5		22.75	mg/L	1	80	28	11 - 94
Nitrobenzene-d5		53.90	mg/L	1	80	67	35 - 114
2-Fluorobiphenyl		53.77	mg/L	1	80	67	43 - 116
2,4,6-Tribromophenol		64.03	mg/L	1	80	80	10 - 123

Continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Terphenyl-d14		71.58	mg/L	1	80	89	33 - 141

Method Blank

QCBatch: QC13235

Param	Flag	Results	Units	Reporting Limit
Pyridine		<0.005	mg/L	0.005
n-Nitrosodimethylamine		<0.005	mg/L	0.005
2-Picoline		<0.005	mg/L	0.005
Methyl methanesulfonate		<0.005	mg/L	0.005
Ethyl methanesulfonate		<0.005	mg/L	0.005
Phenol		<0.005	mg/L	0.005
Aniline		<0.005	mg/L	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	0.005
2-Chlorophenol		<0.005	mg/L	0.005
1,3-Dichlorobenzene		<0.005	mg/L	0.005
1,4-Dichlorobenzene		<0.005	mg/L	0.005
Benzyl alcohol		<0.005	mg/L	0.005
1,2-Dichlorobenzene		<0.005	mg/L	0.005
2-Methylphenol		<0.005	mg/L	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	0.005
Acetophenone		<0.005	mg/L	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	0.005
Hexachloroethane		<0.005	mg/L	0.005
Nitrobenzene		<0.005	mg/L	0.005
n-Nitrosopiperidine		<0.005	mg/L	0.005
Isophorone		<0.005	mg/L	0.005
2-Nitrophenol		<0.005	mg/L	0.005
2,4-Dimethylphenol		<0.005	mg/L	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	0.005
Benzoic acid		<0.005	mg/L	0.005
2,4-Dichlorophenol		<0.005	mg/L	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	0.005
Naphthalene		<0.005	mg/L	0.005
4-Chloroaniline		<0.005	mg/L	0.005
2,6-Dichlorophenol		<0.005	mg/L	0.005
Hexachlorobutadiene		<0.005	mg/L	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	0.005
1-Methylnaphthalene		<0.005	mg/L	0.005
2-Methylnaphthalene		<0.005	mg/L	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	0.005
2-Chloronaphthalene		<0.005	mg/L	0.005
1-Chloronaphthalene		<0.005	mg/L	0.005
2-Nitroaniline		<0.005	mg/L	0.005
Dimethylphthalate		<0.005	mg/L	0.005
Acenaphthylene		<0.005	mg/L	0.005
2,6-Dinitrotoluene		<0.005	mg/L	0.005

Continued ...

... Continued

Param	Flag	Results	Units	Reporting Limit
3-Nitroaniline		<0.005	mg/L	0.005
Acenaphthene		<0.005	mg/L	0.005
2,4-Dinitrophenol		<0.005	mg/L	0.005
Dibenzofuran		<0.005	mg/L	0.005
Pentachlorobenzene		<0.005	mg/L	0.005
4-Nitrophenol		<0.005	mg/L	0.005
1-Naphthylamine		<0.005	mg/L	0.005
2,4-Dinitrotoluene		<0.005	mg/L	0.005
2-Naphthylamine		<0.005	mg/L	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	0.005
Fluorene		<0.005	mg/L	0.005
Diethylphthalate		<0.005	mg/L	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	0.005
4-Nitroaniline		<0.005	mg/L	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	0.005
Diphenylamine		<0.005	mg/L	0.005
Diphenylhydrazine		<0.005	mg/L	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	0.005
Phenacetin		<0.005	mg/L	0.005
Hexachlorobenzene		<0.005	mg/L	0.005
4-Aminobiphenyl		<0.005	mg/L	0.005
Pentachlorophenol		<0.005	mg/L	0.005
Pentachloronitrobenzene		<0.005	mg/L	0.005
Pronamide		<0.005	mg/L	0.005
Phenanthrene		<0.005	mg/L	0.005
Anthracene		<0.005	mg/L	0.005
Di-n-butylphthalate		<0.005	mg/L	0.005
Fluoranthene		<0.005	mg/L	0.005
Benzidine		<0.005	mg/L	0.005
Pyrene		<0.005	mg/L	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	0.005
Butylbenzylphthalate		<0.005	mg/L	0.005
Benzo(a)anthracene		<0.005	mg/L	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	0.005
Chrysene		<0.005	mg/L	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	0.005
Di-n-octylphthalate		<0.005	mg/L	0.005
Benzo(b)fluoranthene		<0.005	mg/L	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	0.005
Benzo(k)fluoranthene		<0.005	mg/L	0.005
Benzo(a)pyrene		<0.005	mg/L	0.005
3-Methylcholanthrene		<0.005	mg/L	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol	[3]	4.56	mg/L	1	80	5	21 - 100
Phenol-d5		7.87	mg/L	1	80	9	11 - 94

Continued ...

[3]Sample surrogate recovery out of limits due to poor prep.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		31.27	mg/L	1	80	39	35 - 114
2-Fluorobiphenyl	4	29.53	mg/L	1	80	36	43 - 116
2,4,6-Tribromophenol		12.05	mg/L	1	80	15	10 - 123
Terphenyl-d14		36.49	mg/L	1	80	45	33 - 141

Method Blank QCBatch: QC13337

Param	Flag	Results	Units	Reporting Limit
Pyridine		<0.005	mg/L	0.005
n-Nitrosodimethylamine		<0.005	mg/L	0.005
2-Picoline		<0.005	mg/L	0.005
Methyl methanesulfonate		<0.005	mg/L	0.005
Ethyl methanesulfonate		<0.005	mg/L	0.005
Phenol		<0.005	mg/L	0.005
Aniline		<0.005	mg/L	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	0.005
2-Chlorophenol		<0.005	mg/L	0.005
1,3-Dichlorobenzene		<0.005	mg/L	0.005
1,4-Dichlorobenzene		<0.005	mg/L	0.005
Benzyl alcohol		<0.005	mg/L	0.005
1,2-Dichlorobenzene		<0.005	mg/L	0.005
2-Methylphenol		<0.005	mg/L	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	0.005
Acetophenone		<0.005	mg/L	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	0.005
Hexachloroethane		<0.005	mg/L	0.005
Nitrobenzene		<0.005	mg/L	0.005
n-Nitrosopiperidine		<0.005	mg/L	0.005
Isophorone		<0.005	mg/L	0.005
2-Nitrophenol		<0.005	mg/L	0.005
2,4-Dimethylphenol		<0.005	mg/L	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	0.005
Benzoic acid		<0.005	mg/L	0.005
2,4-Dichlorophenol		<0.005	mg/L	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	0.005
Naphthalene		<0.005	mg/L	0.005
4-Chloroaniline		<0.005	mg/L	0.005
2,6-Dichlorophenol		<0.005	mg/L	0.005
Hexachlorobutadiene		<0.005	mg/L	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	0.005
1-Methylnaphthalene		<0.005	mg/L	0.005
2-Methylnaphthalene		<0.005	mg/L	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	0.005
2-Chloronaphthalene		<0.005	mg/L	0.005

Continued ...

[4]Sample surrogate recovery out of limits due to poor prep.

... Continued

Param	Flag	Results	Units	Reporting Limit
1-Chloronaphthalene		<0.005	mg/L	0.005
2-Nitroaniline		<0.005	mg/L	0.005
Dimethylphthalate		<0.005	mg/L	0.005
Acenaphthylene		<0.005	mg/L	0.005
2,6-Dinitrotoluene		<0.005	mg/L	0.005
3-Nitroaniline		<0.005	mg/L	0.005
Acenaphthene		<0.005	mg/L	0.005
2,4-Dinitrophenol		<0.005	mg/L	0.005
Dibenzofuran		<0.005	mg/L	0.005
Pentachlorobenzene		<0.005	mg/L	0.005
4-Nitrophenol		<0.005	mg/L	0.005
1-Naphthylamine		<0.005	mg/L	0.005
2,4-Dinitrotoluene		<0.005	mg/L	0.005
2-Naphthylamine		<0.005	mg/L	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	0.005
Fluorene		<0.005	mg/L	0.005
Diethylphthalate		<0.005	mg/L	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	0.005
4-Nitroaniline		<0.005	mg/L	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	0.005
Diphenylamine		<0.005	mg/L	0.005
Diphenylhydrazine		<0.005	mg/L	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	0.005
Phenacetin		<0.005	mg/L	0.005
Hexachlorobenzene		<0.005	mg/L	0.005
4-Aminobiphenyl		<0.005	mg/L	0.005
Pentachlorophenol		<0.005	mg/L	0.005
Pentachloronitrobenzene		<0.005	mg/L	0.005
Pronamide		<0.005	mg/L	0.005
Phenanthrene		<0.005	mg/L	0.005
Anthracene		<0.005	mg/L	0.005
Di-n-butylphthalate		<0.005	mg/L	0.005
Fluoranthene		<0.005	mg/L	0.005
Benzidine		<0.005	mg/L	0.005
Pyrene		<0.005	mg/L	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	0.005
Butylbenzylphthalate		<0.005	mg/L	0.005
Benzo(a)anthracene		<0.005	mg/L	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	0.005
Chrysene		<0.005	mg/L	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	0.005
Di-n-octylphthalate		<0.005	mg/L	0.005
Benzo(b)fluoranthene		<0.005	mg/L	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	0.005
Benzo(k)fluoranthene		<0.005	mg/L	0.005
Benzo(a)pyrene		<0.005	mg/L	0.005
3-Methylcholanthrene		<0.005	mg/L	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		37.11	mg/L	1	80	46	21 - 100
Phenol-d5		26.07	mg/L	1	80	32	11 - 94
Nitrobenzene-d5		62.09	mg/L	1	80	77	35 - 114
2-Fluorobiphenyl		62.53	mg/L	1	80	78	43 - 116
2,4,6-Tribromophenol		65.4	mg/L	1	80	81	10 - 123
Terphenyl-d14		59.55	mg/L	1	80	74	33 - 141

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC13234

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Phenol	21.26	20.3	mg/L	1	80	<0.005	26	4	5 - 112	20
2-Chlorophenol	48.3	44.84	mg/L	1	80	<0.005	60	7	23 - 134	20
1,4-Dichlorobenzene	37.86	38.48	mg/L	1	80	<0.005	47	1	20 - 124	20
n-Nitrosodi-n-propylamine	55.16	56.48	mg/L	1	80	<0.005	68	2	0 - 230	20
1,2,4-Trichlorobenzene	41.98	42.77	mg/L	1	80	<0.005	52	1	44 - 142	20
4-Chloro-3-methylphenol	65.21	63.2	mg/L	1	80	<0.005	81	3	22 - 147	20
Acenaphthene	48.06	49.04	mg/L	1	80	<0.005	60	2	47 - 145	20
4-Nitrophenol	18.53	20.65	mg/L	1	80	<0.005	23	10	0 - 132	20
2,4-Dinitrotoluene	53.72	59.34	mg/L	1	80	<0.005	67	9	39 - 139	20
Pentachlorophenol	42.64	[5] 55.36	mg/L	1	80	<0.005	53	25	14 - 176	20
Pyrene	53.71	60.5	mg/L	1	80	<0.005	67	11	52 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
2-Fluorophenol	32.08	30.02	mg/L	1	80	40	37	21 - 100
Phenol-d5	22.29	21.75	mg/L	1	80	27	27	11 - 94
Nitrobenzene-d5	54.15	50.79	mg/L	1	80	67	63	35 - 114
2-Fluorobiphenyl	53.37	49.86	mg/L	1	80	66	62	43 - 116
2,4,6-Tribromophenol	61.39	61.81	mg/L	1	80	76	77	10 - 123
Terphenyl-d14	67.25	69.34	mg/L	1	80	84	86	33 - 141

Laboratory Control Spikes QCBatch: QC13235

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Phenol	8.65	7.6	mg/L	1	80	<0.005	10	12	5 - 112	20
2-Chlorophenol	27.69	23.43	mg/L	1	80	<0.005	34	16	23 - 134	20
1,4-Dichlorobenzene	26.73	26.65	mg/L	1	80	<0.005	33	0	20 - 124	20
n-Nitrosodi-n-propylamine	30.55	33.00	mg/L	1	80	<0.005	38	7	0 - 230	20
1,2,4-Trichlorobenzene	29.07	29.07	mg/L	1	80	<0.005	36	0	44 - 142	20
4-Chloro-3-methylphenol	32.92	28.92	mg/L	1	80	<0.005	41	12	22 - 147	20
Acenaphthene	30.53	29.94	mg/L	1	80	<0.005	38	1	47 - 145	20
4-Nitrophenol	8.49	3.78	mg/L	1	80	<0.005	10	76	0 - 132	20

Continued ...

[5]RPD out of standard range. Percent recoveries show process to be in control.

. . . Continued

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
2,4-Dinitrotoluene	34.2	26.66	mg/L	1	80	<0.005	42	24	39 - 139	20
Pentachlorophenol	28.27	13.52	mg/L	1	80	<0.005	35	70	14 - 176	20
Pyrene	35.49	40.78	mg/L	1	80	<0.005	44	13	52 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
2-Fluorophenol	16.74	14.35	mg/L	1	80	20	17	21 - 100
Phenol-d5	11.68	10.71	mg/L	1	80	14	13	11 - 94
Nitrobenzene-d5	37.12	33.18	mg/L	1	80	46	41	35 - 114
2-Fluorobiphenyl	35.54	32.00	mg/L	1	80	44	40	43 - 116
2,4,6-Tribromophenol	38.08	27.39	mg/L	1	80	47	34	10 - 123
Terphenyl-d14	45.6	44.14	mg/L	1	80	57	55	33 - 141

Laboratory Control Spikes QCBatch: QC13337

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Phenol	22.79	23.28	mg/L	1	80	<0.005	28	2	5 - 112	20
2-Chlorophenol	50.47	51.61	mg/L	1	80	<0.005	63	2	23 - 134	20
1,4-Dichlorobenzene	36.09	36.73	mg/L	1	80	<0.005	45	1	20 - 124	20
n-Nitrosodi-n-propylamine	47.78	48.51	mg/L	1	80	<0.005	59	1	0 - 230	20
1,2,4-Trichlorobenzene	38.4	39.37	mg/L	1	80	<0.005	48	2	44 - 142	20
4-Chloro-3-methylphenol	55.64	56.57	mg/L	1	80	<0.005	69	1	22 - 147	20
Acenaphthene	45.62	45.28	mg/L	1	80	<0.005	57	0	47 - 145	20
4-Nitrophenol	13.69	12.78	mg/L	1	80	<0.005	17	6	0 - 132	20
2,4-Dinitrotoluene	50.27	50.51	mg/L	1	80	<0.005	62	0	39 - 139	20
Pentachlorophenol	52.00	54.93	mg/L	1	80	<0.005	65	5	14 - 176	20
Pyrene	46.49	46.77	mg/L	1	80	<0.005	58	0	52 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
2-Fluorophenol	36.3	37.37	mg/L	1	80	45	46	21 - 100
Phenol-d5	24.97	29.19	mg/L	1	80	31	36	11 - 94
Nitrobenzene-d5	61.73	63.47	mg/L	1	80	77	79	35 - 114
2-Fluorobiphenyl	62.93	61.5	mg/L	1	80	78	76	43 - 116
2,4,6-Tribromophenol	68.71	66.86	mg/L	1	80	85	83	10 - 123
Terphenyl-d14	67.53	64.67	mg/L	1	80	84	80	33 - 141

Quality Control Report
Matrix Spikes and Duplicate Spikes

Matrix Spikes QCBatch: QC13235

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Phenol	12.27	16.23	mg/L	1	80	<0.005	15	27	5 - 112	20
2-Chlorophenol	31.56	43.46	mg/L	1	80	<0.005	39	31	23 - 134	20
1,4-Dichlorobenzene	38.41	40.68	mg/L	1	80	<0.005	48	5	20 - 124	20
n-Nitrosodi-n-propylamine	52.59	51.29	mg/L	1	80	<0.005	65	2	0 - 230	20
1,2,4-Trichlorobenzene	42.25	46.76	mg/L	1	80	<0.005	52	10	44 - 142	20
4-Chloro-3-methylphenol	41.72	54.25	mg/L	1	80	<0.005	52	26	22 - 147	20
Acenaphthene	49.42	52.44	mg/L	1	80	<0.005	61	5	47 - 145	20
4-Nitrophenol	12.8	23.29	mg/L	1	80	<0.005	16	58	0 - 132	20
2,4-Dinitrotoluene	43.57	59.25	mg/L	1	80	<0.005	54	30	39 - 139	20
Pentachlorophenol	48.3	76.3	mg/L	1	80	<0.005	60	44	14 - 176	20
Pyrene	48.33	47.43	mg/L	1	80	<0.005	60	1	52 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
2-Fluorophenol	20.06	27.14	mg/L	1	80	25	33	21 - 100
Phenol-d5	17.86	18.61	mg/L	1	80	22	23	11 - 94
Nitrobenzene-d5	49.85	60.14	mg/L	1	80	62	75	35 - 114
2-Fluorobiphenyl	54.61	57.92	mg/L	1	80	68	72	43 - 116
2,4,6-Tribromophenol	47.8	70.73	mg/L	1	80	59	88	10 - 123
Terphenyl-d14	50.00	57.38	mg/L	1	80	62	71	33 - 141

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC13234

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol		mg/L	60	64.72	107	80 - 120	7/28/01
1,4-Dichlorobenzene		mg/L	60	59.44	99	80 - 120	7/28/01
2-Nitrophenol		mg/L	60	65.3	108	80 - 120	7/28/01
2,4-Dichlorophenol		mg/L	60	63..86	105	80 - 120	7/28/01
Hexachlorobutadiene		mg/L	60	61.11	101	80 - 120	7/28/01
4-Chloro-3-methylphenol		mg/L	60	59.44	99	80 - 120	7/28/01
2,4,6-Trichlorophenol		mg/L	60	69.16	115	80 - 120	7/28/01
Acenaphthene		mg/L	60	59.38	98	80 - 120	7/28/01
Diphenylamine		mg/L	60	63.08	105	80 - 120	7/28/01
Pentachlorophenol		mg/L	60	68.84	114	80 - 120	7/28/01
Fluoranthene		mg/L	60	55.62	92	80 - 120	7/28/01
Di-n-octylphthalate		mg/L	60	59.2	98	80 - 120	7/28/01
Benzo(a)pyrene		mg/L	60	60.44	100	80 - 120	7/28/01
2-Fluorophenol		mg/L	60	60.66	101	80 - 120	7/28/01
Phenol-d5		mg/L	60	63.87	106	80 - 120	7/28/01
Nitrobenzene-d5		mg/L	60	61.41	102	80 - 120	7/28/01
2-Fluorobiphenyl		mg/L	60	65.01	108	80 - 120	7/28/01
2,4,6-Tribromophenol		mg/L	60	54.47	90	80 - 120	7/28/01
Terphenyl-d14		mg/L	60	55.36	92	80 - 120	7/28/01

CCV (1) QCBatch: QC13235

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol		mg/L	60	61.41	102	80 - 120	7/30/01
1,4-Dichlorobenzene		mg/L	60	58.69	97	80 - 120	7/30/01
2-Nitrophenol		mg/L	60	66.39	110	80 - 120	7/30/01
2,4-Dichlorophenol		mg/L	60	65.92	109	80 - 120	7/30/01
Hexachlorobutadiene		mg/L	60	58.44	97	80 - 120	7/30/01
4-Chloro-3-methylphenol		mg/L	60	65.88	109	80 - 120	7/30/01
2,4,6-Trichlorophenol		mg/L	60	67.52	112	80 - 120	7/30/01
Acenaphthene		mg/L	60	58.74	97	80 - 120	7/30/01
Diphenylamine		mg/L	60	57.01	95	80 - 120	7/30/01
Pentachlorophenol		mg/L	60	60.28	100	80 - 120	7/30/01
Fluoranthene		mg/L	60	57.56	95	80 - 120	7/30/01
Di-n-octylphthalate		mg/L	60	53.32	88	80 - 120	7/30/01
Benzo(a)pyrene		mg/L	60	61.3	102	80 - 120	7/30/01
2-Fluorophenol		mg/L	60	63.44	105	80 - 120	7/30/01
Phenol-d5		mg/L	60	60.68	101	80 - 120	7/30/01
Nitrobenzene-d5		mg/L	60	62.47	104	80 - 120	7/30/01
2-Fluorobiphenyl		mg/L	60	59.31	98	80 - 120	7/30/01
2,4,6-Tribromophenol		mg/L	60	59.59	99	80 - 120	7/30/01
Terphenyl-d14		mg/L	60	62.68	104	80 - 120	7/30/01

CCV (1) QCBatch: QC13337

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol		mg/L	60	62.76	104	80 - 120	8/13/01
1,4-Dichlorobenzene		mg/L	60	61.03	101	80 - 120	8/13/01
2-Nitrophenol		mg/L	60	60.12	100	80 - 120	8/13/01
2,4-Dichlorophenol		mg/L	60	60.17	100	80 - 120	8/13/01
Hexachlorobutadiene		mg/L	60	62.27	103	80 - 120	8/13/01
4-Chloro-3-methylphenol		mg/L	60	54.5	90	80 - 120	8/13/01
2,4,6-Trichlorophenol		mg/L	60	61.92	103	80 - 120	8/13/01
Acenaphthene		mg/L	60	60.16	100	80 - 120	8/13/01
Diphenylamine		mg/L	60	61.57	102	80 - 120	8/13/01
Pentachlorophenol		mg/L	60	65.89	109	80 - 120	8/13/01
Fluoranthene		mg/L	60	64.23	107	80 - 120	8/13/01
Di-n-octylphthalate		mg/L	60	65.04	108	80 - 120	8/13/01
Benzo(a)pyrene		mg/L	60	59.65	99	80 - 120	8/13/01
2-Fluorophenol		mg/L	60	64.58	107	80 - 120	8/13/01
Phenol-d5		mg/L	60	61.63	102	80 - 120	8/13/01
Nitrobenzene-d5		mg/L	60	62.78	104	80 - 120	8/13/01
2-Fluorobiphenyl		mg/L	60	62.6	104	80 - 120	8/13/01
2,4,6-Tribromophenol		mg/L	60	62.21	103	80 - 120	8/13/01
Terphenyl-d14		mg/L	60	56.3	93	80 - 120	8/13/01

Explosive Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 28, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC13432	Date Analyzed:	8/8/01
Analyst:	JH	Preparation Method:	3535A	Prep Batch:	PB11444	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<50.0	μg/L	100	0.50
RDX		<50.0	μg/L	100	0.50
1,3,5-trinitrobenzene		<50.0	μg/L	100	0.50
1,3-dinitrobenzene		<50.0	μg/L	100	0.50
tetryl		<50.0	μg/L	100	0.50
Nitrobenzene		<50.0	μg/L	100	0.50
TNT		<50.0	μg/L	100	0.50
4-amino-DNT / 2-amino-DNT		<50.0	μg/L	100	0.50
2,6-DNT / 2,4-DNT		<50.0	μg/L	100	0.50
2-NT		<50.0	μg/L	100	0.50
4-NT		<50.0	μg/L	100	0.50
3-NT		<50.0	μg/L	100	0.50
Test Comments	1	Note		1	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene	2	67.84	μg/L	100	2.50	27	46 - 144

Sample: 175645 - 0154-DRW03-0701-QC

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC13432	Date Analyzed:	8/8/01
Analyst:	JH	Preparation Method:	3535A	Prep Batch:	PB11444	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<50.0	μg/L	100	0.50
RDX		<50.0	μg/L	100	0.50
1,3,5-trinitrobenzene		<50.0	μg/L	100	0.50
1,3-dinitrobenzene		<50.0	μg/L	100	0.50
tetryl		<50.0	μg/L	100	0.50
Nitrobenzene		<50.0	μg/L	100	0.50
TNT		<50.0	μg/L	100	0.50
4-amino-DNT / 2-amino-DNT		<50.0	μg/L	100	0.50
2,6-DNT / 2,4-DNT		<50.0	μg/L	100	0.50
2-NT		<50.0	μg/L	100	0.50
4-NT		<50.0	μg/L	100	0.50
3-NT		<50.0	μg/L	100	0.50
Test Comments	3	Note		1	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene	4	0	μg/L	100	2.50	0	46 - 144

[1]DILUTED DUE TO UNKOWN ANALYTES IN MATRIX
[2]Surrogate Recovery low due to required dilution.
[3]DILUTED DUE TO UNKNOWN ANALYTES IN MATRIX
[4]Surrogate Recovery low due to required dilution.

Sample: 175647 - 0154-DRW04-0701

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC13432	Date Analyzed:	8/8/01
Analyst:	JH	Preparation Method:	3535A	Prep Batch:	PB11444	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<50.0	μg/L	100	0.50
RDX		<50.0	μg/L	100	0.50
1,3,5-trinitrobenzene		<50.0	μg/L	100	0.50
1,3-dinitrobenzene		<50.0	μg/L	100	0.50
tetryl		<50.0	μg/L	100	0.50
Nitrobenzene		<50.0	μg/L	100	0.50
TNT		<50.0	μg/L	100	0.50
4-amino-DNT / 2-amino-DNT		<50.0	μg/L	100	0.50
2,6-DNT / 2,4-DNT		<50.0	μg/L	100	0.50
2-NT		<50.0	μg/L	100	0.50
4-NT		<50.0	μg/L	100	0.50
3-NT		<50.0	μg/L	100	0.50
Test Comments	[5]	Note		1	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene	[6]	3.454	μg/L	100	2.50	1	46 - 144

Sample: 175649 - 0154-HCF05-0701

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC13432	Date Analyzed:	8/8/01
Analyst:	JH	Preparation Method:	3535A	Prep Batch:	PB11444	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<50.0	μg/L	100	0.50
RDX		<50.0	μg/L	100	0.50
1,3,5-trinitrobenzene		<50.0	μg/L	100	0.50
1,3-dinitrobenzene		<50.0	μg/L	100	0.50
tetryl		<50.0	μg/L	100	0.50
Nitrobenzene		<50.0	μg/L	100	0.50
TNT		<50.0	μg/L	100	0.50
4-amino-DNT / 2-amino-DNT		<50.0	μg/L	100	0.50
2,6-DNT / 2,4-DNT		<50.0	μg/L	100	0.50
2-NT		<50.0	μg/L	100	0.50
4-NT		<50.0	μg/L	100	0.50
3-NT		<50.0	μg/L	100	0.50
Test Comments	[7]	Note		100	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene	[8]	5.346	μg/L	100	2.50	2	46 - 144

[5]DILUTED DUE TO UNKNOWN ANALYTES IN MATRIX
[6]Surrogate Recovery low due to required dilution.
[7]DILUTED DUE TO UNKNOWN ANALYTES IN MATRIX
[8]Surrogate Recovery low due to required dilution.

Sample: 175651 - 0154-HCF05-0701-QC

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC13432	Date Analyzed:	8/8/01
Analyst:	JH	Preparation Method:	3535A	Prep Batch:	PB11444	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<50.0	μg/L	100	0.50
RDX		<50.0	μg/L	100	0.50
1,3,5-trinitrobenzene		<50.0	μg/L	100	0.50
1,3-dinitrobenzene		<50.0	μg/L	100	0.50
tetryl		<50.0	μg/L	100	0.50
Nitrobenzene		<50.0	μg/L	100	0.50
TNT		<50.0	μg/L	100	0.50
4-amino-DNT / 2-amino-DNT		<50.0	μg/L	100	0.50
2,6-DNT / 2,4-DNT		<50.0	μg/L	100	0.50
2-NT		<50.0	μg/L	100	0.50
4-NT		<50.0	μg/L	100	0.50
3-NT		<50.0	μg/L	100	0.50
Test Comments	[9]	Note		1	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene	[10]	0	μg/L	100	2.50	0	46 - 144

Sample: 175653 - 0154-HCF07-0701

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC13432	Date Analyzed:	8/8/01
Analyst:	JH	Preparation Method:	3535A	Prep Batch:	PB11444	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<50.0	μg/L	100	0.50
RDX		<50.0	μg/L	100	0.50
1,3,5-trinitrobenzene		<50.0	μg/L	100	0.50
1,3-dinitrobenzene		<50.0	μg/L	100	0.50
tetryl		<50.0	μg/L	100	0.50
Nitrobenzene		<50.0	μg/L	100	0.50
TNT		<50.0	μg/L	100	0.50
4-amino-DNT / 2-amino-DNT		<50.0	μg/L	100	0.50
2,6-DNT / 2,4-DNT		<50.0	μg/L	100	0.50
2-NT		<50.0	μg/L	100	0.50
4-NT		<50.0	μg/L	100	0.50
3-NT		<50.0	μg/L	100	0.50
Test Comments	[11]	Note		1	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene	[12]	0	μg/L	100	2.50	0	46 - 144

[9] DILUTED DUE TO UNKNOWN ANALYTES IN MATRIX
[10] Surrogate Recovery low due to required dilution.
[11] DILUTED DUE TO UNKNOWN ANALYTES IN MATRIX
[12] Surrogate Recovery low due to required dilution.

Sample: 175694 - 0154-DRW01-0701

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC13432	Date Analyzed:	8/8/01
Analyst:	JH	Preparation Method:	3535A	Prep Batch:	PB11444	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<50.0	μg/L	100	0.50
RDX		<50.0	μg/L	100	0.50
1,3,5-trinitrobenzene		<50.0	μg/L	100	0.50
1,3-dinitrobenzene		<50.0	μg/L	100	0.50
tetryl		<50.0	μg/L	100	0.50
Nitrobenzene		<50.0	μg/L	100	0.50
TNT		<50.0	μg/L	100	0.50
4-amino-DNT / 2-amino-DNT		<50.0	μg/L	100	0.50
2,6-DNT / 2,4-DNT		<50.0	μg/L	100	0.50
2-NT		<50.0	μg/L	100	0.50
4-NT		<50.0	μg/L	100	0.50
3-NT		<50.0	μg/L	100	0.50
Test Comments	[13]	Note		1	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene	[14]	0	μg/L	100	2.50	0	46 - 144

Sample: 175696 - 0154-DRW02-0701

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC13432	Date Analyzed:	8/8/01
Analyst:	JH	Preparation Method:	3535A	Prep Batch:	PB11444	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<50.0	μg/L	100	0.50
RDX		<50.0	μg/L	100	0.50
1,3,5-trinitrobenzene		<50.0	μg/L	100	0.50
1,3-dinitrobenzene		<50.0	μg/L	100	0.50
tetryl		<50.0	μg/L	100	0.50
Nitrobenzene		<50.0	μg/L	100	0.50
TNT		<50.0	μg/L	100	0.50
4-amino-DNT / 2-amino-DNT		<50.0	μg/L	100	0.50
2,6-DNT / 2,4-DNT		<50.0	μg/L	100	0.50
2-NT		<50.0	μg/L	100	0.50
4-NT		<50.0	μg/L	100	0.50
3-NT		<50.0	μg/L	100	0.50
Test Comments	[15]	Note		1	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene	[16]	0	μg/L	100	2.50	0	46 - 144

[13]DILUTED DUE TO UNKOWN ANALYTES IN MATRIX
[14]Surrogate Recovery low due to required dilution.
[15]DILUTED DUE TO UNKNOWN ANALYTES IN MATRIX
[16]Surrogate Recovery low due to required dilution.

Sample: 175698 - 0154-DRW05-0701

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC13432	Date Analyzed:	8/8/01
Analyst:	JH	Preparation Method:	3535A	Prep Batch:	PB11444	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<50.0	μg/L	100	0.50
RDX		<50.0	μg/L	100	0.50
1,3,5-trinitrobenzene		<50.0	μg/L	100	0.50
1,3-dinitrobenzene		<50.0	μg/L	100	0.50
tetryl		<50.0	μg/L	100	0.50
Nitrobenzene		<50.0	μg/L	100	0.50
TNT		<50.0	μg/L	100	0.50
4-amino-DNT / 2-amino-DNT		<50.0	μg/L	100	0.50
2,6-DNT / 2,4-DNT		<50.0	μg/L	100	0.50
2-NT		<50.0	μg/L	100	0.50
4-NT		<50.0	μg/L	100	0.50
3-NT		<50.0	μg/L	100	0.50
Test Comments	[17]	Note		1	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene	[18]	110.448	μg/L	100	2.50	44	46 - 144

Sample: 175700 - 0154-DRW12-0701

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC13432	Date Analyzed:	8/8/01
Analyst:	JH	Preparation Method:	3535A	Prep Batch:	PB11444	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<50.0	μg/L	100	0.50
RDX		<50.0	μg/L	100	0.50
1,3,5-trinitrobenzene		<50.0	μg/L	100	0.50
1,3-dinitrobenzene		<50.0	μg/L	100	0.50
tetryl		<50.0	μg/L	100	0.50
Nitrobenzene		<50.0	μg/L	100	0.50
TNT		<50.0	μg/L	100	0.50
4-amino-DNT / 2-amino-DNT		<50.0	μg/L	100	0.50
2,6-DNT / 2,4-DNT		<50.0	μg/L	100	0.50
2-NT		<50.0	μg/L	100	0.50
4-NT		<50.0	μg/L	100	0.50
3-NT		<50.0	μg/L	100	0.50
Test Comments	[19]	Note		1	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene	[20]	0	μg/L	100	2.50	0	46 - 144

[17] DILUTED DUE TO UNKNOWN ANALYTES IN MATRIX
[18] Surrogate Recovery low due to required dilution.
[19] DILUTED DUE TO UNKOWN ANALYTES IN MATRIX
[20] Surrogate Recovery low due to required dilution.

Sample: 175702 - 0154-DRW13-0701

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC13432	Date Analyzed:	8/8/01
Analyst:	JH	Preparation Method:	3535A	Prep Batch:	PB11444	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<50.0	μg/L	100	0.50
RDX		<50.0	μg/L	100	0.50
1,3,5-trinitrobenzene		<50.0	μg/L	100	0.50
1,3-dinitrobenzene		<50.0	μg/L	100	0.50
tetryl		<50.0	μg/L	100	0.50
Nitrobenzene		<50.0	μg/L	100	0.50
TNT		<50.0	μg/L	100	0.50
4-amino-DNT / 2-amino-DNT		<50.0	μg/L	100	0.50
2,6-DNT / 2,4-DNT		<50.0	μg/L	100	0.50
2-NT		<50.0	μg/L	100	0.50
4-NT		<50.0	μg/L	100	0.50
3-NT		<50.0	μg/L	100	0.50
Test Comments	[21]	Note		1	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene	[22]	0	μg/L	100	2.50	0	46 - 144

Sample: 175854 - 0154-HCF01-0701

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC13432	Date Analyzed:	8/8/01
Analyst:	JH	Preparation Method:	3535A	Prep Batch:	PB11444	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<50.0	μg/L	100	0.50
RDX		<50.0	μg/L	100	0.50
1,3,5-trinitrobenzene		<50.0	μg/L	100	0.50
1,3-dinitrobenzene		<50.0	μg/L	100	0.50
tetryl		<50.0	μg/L	100	0.50
Nitrobenzene		<50.0	μg/L	100	0.50
TNT		<50.0	μg/L	100	0.50
4-amino-DNT / 2-amino-DNT		<50.0	μg/L	100	0.50
2,6-DNT / 2,4-DNT		<50.0	μg/L	100	0.50
2-NT		<50.0	μg/L	100	0.50
4-NT		<50.0	μg/L	100	0.50
3-NT		<50.0	μg/L	100	0.50
Test Comments	[23]	Note		1	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene	[24]	0	μg/L	100	2.50	0	46 - 144

[21] DILUTED DUE TO UNKOWN ANALYTES IN MATRIX
[22] Surrogate Recovery low due to required dilution.
[23] DILUTED DUE TO UNKOWN ANALYTES IN MATRIX
[24] Surrogate Recovery low due to required dilution.

Sample: 175856 - 0154-DRW16-0701

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC13432	Date Analyzed:	8/8/01
Analyst:	JH	Preparation Method:	3535A	Prep Batch:	PB11444	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<50.0	μg/L	100	0.50
RDX		<50.0	μg/L	100	0.50
1,3,5-trinitrobenzene		<50.0	μg/L	100	0.50
1,3-dinitrobenzene		<50.0	μg/L	100	0.50
tetryl		<50.0	μg/L	100	0.50
Nitrobenzene		<50.0	μg/L	100	0.50
TNT		<50.0	μg/L	100	0.50
4-amino-DNT / 2-amino-DNT		<50.0	μg/L	100	0.50
2,6-DNT / 2,4-DNT		<50.0	μg/L	100	0.50
2-NT		<50.0	μg/L	100	0.50
4-NT		<50.0	μg/L	100	0.50
3-NT		<50.0	μg/L	100	0.50
Test Comments	[25]	Note		1	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene	[26]	0	μg/L	100	2.50	0	46 - 144

[25] DILUTED DUE TO UNKNOWN ANALYTES IN MATRIX
[26] Surrogate Recovery low due to required dilution.

Quality Control Report
Method Blank

Method Blank QCBatch: QC13432

Param	Flag	Results	Units	Reporting Limit
HMX		<0.5	μg/L	0.50
RDX		<0.5	μg/L	0.50
1,3,5-trinitrobenzene		<0.5	μg/L	0.50
1,3-dinitrobenzene		<0.5	μg/L	0.50
tetryl		<0.5	μg/L	0.50
Nitrobenzene		<0.5	μg/L	0.50
TNT		<0.5	μg/L	0.50
4-amino-DNT / 2-amino-DNT		<0.5	μg/L	0.50
2,6-DNT / 2,4-DNT		<0.5	μg/L	0.50
2-NT		<0.5	μg/L	0.50
4-NT		<0.5	μg/L	0.50
3-NT		<0.5	μg/L	0.50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene		1.773	μg/L	1	2.50	70	46 - 144

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC13432

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
HMX	1.215	1.114	μg/L	1	2.50	<0.5	48	8	0 - 133	20
RDX	1.377	1.275	μg/L	1	2.50	<0.5	55	7	0 - 112	20
1,3,5-trinitrobenzene	2.857	2.859	μg/L	1	2.50	<0.5	114	0	0 - 185	20
1,3-dinitrobenzene	2.824	2.639	μg/L	1	2.50	<0.5	112	6	27 - 143	20
tetryl	2.793	2.551	μg/L	1	2.50	<0.5	111	9	19 - 141	20
Nitrobenzene	2.817	2.58	μg/L	1	2.50	<0.5	112	8	15 - 161	20
TNT	2.733	2.687	μg/L	1	2.50	<0.5	109	1	6 - 149	20
4-amino-DNT / 2-amino-DNT	2.72	2.533	μg/L	1	2.50	<0.5	108	7	52 - 132	20
2,6-DNT / 2,4-DNT	2.855	2.663	μg/L	1	2.50	<0.5	114	6	44 - 133	20
2-NT	2.864	2.622	μg/L	1	2.50	<0.5	114	8	29 - 146	20
4-NT	2.732	2.3613	μg/L	1	2.50	<0.5	109	14	48 - 139	20
3-NT	2.814	2.763	μg/L	1	2.50	<0.5	112	1	47 - 142	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
1,2-dinitrobenzene	2.129	2.224	μg/L	1	2.50	85	88	46 - 144

Quality Control Report

Matrix Spikes and Duplicate Spikes

Matrix Spikes

QCBatch: QC13432

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
HMX	<50.0	<50.0	μg/L	1	500	<50.0	0	0	0 - 133	20
RDX	<50.0	<50.0	μg/L	1	500	<50.0	0	0	0 - 112	20
1,3,5-trinitrobenzene	<50.0	<50.0	μg/L	1	500	<50.0	0	0	0 - 185	20
1,3-dinitrobenzene	<50.0	<50.0	μg/L	1	500	<50.0	0	0	27 - 143	20
tetryl	<50.0	<50.0	μg/L	1	500	<50.0	0	0	19 - 141	20
Nitrobenzene	<50.0	<50.0	μg/L	1	500	<50.0	0	0	15 - 161	20
TNT	<50.0	<50.0	μg/L	1	500	<50.0	0	0	6 - 149	20
4-amino-DNT / 2-amino-DNT	<50.0	<50.0	μg/L	1	500	<50.0	0	0	52 - 132	20
2,6-DNT / 2,4-DNT	<50.0	<50.0	μg/L	1	500	<50.0	0	0	44 - 133	20
2-NT	<50.0	<50.0	μg/L	1	500	<50.0	0	0	29 - 146	20
4-NT	<50.0	<50.0	μg/L	1	500	<50.0	0	0	48 - 139	20
3-NT	<50.0	<50.0	μg/L	1	500	<50.0	0	0	47 - 142	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dilution	Spike Amount	MS % Rec	MSD % Rec	Recovery Limits
1,2-dinitrobenzene	[27] <0.5	[28] <0.5	μg/L	100	2.50	0	0	46 - 144

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QCBatch: QC13432

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
HMX		μg/L	500	526.92	105	85 - 115	8/8/01
RDX		μg/L	500	469.719	93	85 - 115	8/8/01
1,3,5-trinitrobenzene		μg/L	500	503.315	100	85 - 115	8/8/01
1,3-dinitrobenzene		μg/L	500	518.222	103	85 - 115	8/8/01
tetryl		μg/L	500	428.517	85	85 - 115	8/8/01
Nitrobenzene		μg/L	500	498.899	99	85 - 115	8/8/01
TNT		μg/L	500	554.920	110	85 - 115	8/8/01
4-amino-DNT / 2-amino-DNT		μg/L	500	502.506	100	85 - 115	8/8/01
2,6-DNT / 2,4-DNT		μg/L	500	508.216	101	85 - 115	8/8/01
2-NT		μg/L	500	520.993	104	85 - 115	8/8/01
4-NT		μg/L	500	533.407	106	85 - 115	8/8/01
3-NT		μg/L	500	531.083	106	85 - 115	8/8/01
1,2-dinitrobenzene		μg/L	500	548.177	109	85 - 115	8/8/01

[27] Surrogate Recovery low due to required dilution.
[28] Surrogate Recovery low due to required dilution.

CCV (2) QCBatch: QC13432

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
HMX		µg/L	500	547.438	109	85 - 115	8/8/01
RDX		µg/L	500	490.174	98	85 - 115	8/8/01
1,3,5-trinitrobenzene		µg/L	500	516.499	103	85 - 115	8/8/01
1,3-dinitrobenzene		µg/L	500	522.45	104	85 - 115	8/8/01
tetryl	[29]	µg/L	500	341.047	68	85 - 115	8/8/01
Nitrobenzene		µg/L	500	514.646	102	85 - 115	8/8/01
TNT		µg/L	500	571.425	114	85 - 115	8/8/01
4-amino-DNT / 2-amino-DNT		µg/L	500	539.43	107	85 - 115	8/8/01
2,6-DNT / 2,4-DNT		µg/L	500	525.726	105	85 - 115	8/8/01
2-NT		µg/L	500	531.935	106	85 - 115	8/8/01
4-NT		µg/L	500	498.529	99	85 - 115	8/8/01
3-NT		µg/L	500	476.308	95	85 - 115	8/8/01
1,2-dinitrobenzene		µg/L	500	558.31	111	85 - 115	8/8/01

ICV (1) QCBatch: QC13432

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
HMX		µg/L	500	499.206	99	85 - 115	8/8/01
RDX		µg/L	500	481.615	96	85 - 115	8/8/01
1,3,5-trinitrobenzene		µg/L	500	515.012	103	85 - 115	8/8/01
1,3-dinitrobenzene		µg/L	500	520.405	104	85 - 115	8/8/01
tetryl		µg/L	500	426.417	85	85 - 115	8/8/01
Nitrobenzene		µg/L	500	513.366	102	85 - 115	8/8/01
TNT		µg/L	500	509.522	101	85 - 115	8/8/01
4-amino-DNT / 2-amino-DNT		µg/L	500	507.154	101	85 - 115	8/8/01
2,6-DNT / 2,4-DNT		µg/L	500	528.227	105	85 - 115	8/8/01
2-NT		µg/L	500	529.956	105	85 - 115	8/8/01
4-NT		µg/L	500	511.385	102	85 - 115	8/8/01
3-NT		µg/L	500	525.118	105	85 - 115	8/8/01
1,2-dinitrobenzene		µg/L	500	526.640	105	85 - 115	8/8/01

[29] Analyte recovery low. Average of CCV analytes is 101%. This shows process is in control.

TOC Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 23, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis:	TOC	Analytical Method:	E 415.1	QC Batch:	QC13094	Date Analyzed:	8/2/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB11189	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		17.6	mg/L	1	1

Sample: 175645 - 0154-DRW03-0701-QC

Analysis:	TOC	Analytical Method:	E 415.1	QC Batch:	QC13094	Date Analyzed:	8/2/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB11189	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		17.8	mg/L	1	1

Sample: 175647 - 0154-DRW04-0701

Analysis:	TOC	Analytical Method:	E 415.1	QC Batch:	QC13094	Date Analyzed:	8/2/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB11189	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		15.7	mg/L	1	1

Sample: 175649 - 0154-HCF05-0701

Analysis:	TOC	Analytical Method:	E 415.1	QC Batch:	QC13094	Date Analyzed:	8/2/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB11189	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		23.8	mg/L	1	1

Sample: 175651 - 0154-HCF05-0701-QC

Analysis:	TOC	Analytical Method:	E 415.1	QC Batch:	QC13094	Date Analyzed:	8/2/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB11189	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		24.1	mg/L	1	1

Sample: 175653 - 0154-HCF07-0701

Analysis:	TOC	Analytical Method:	E 415.1	QC Batch:	QC13094	Date Analyzed:	8/2/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB11189	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		23.9	mg/L	1	1

Sample: 175694 - 0154-DRW01-0701

Analysis:	TOC	Analytical Method:	E 415.1	QC Batch:	QC13094	Date Analyzed:	8/2/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB11189	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		1.86	mg/L	1	1

Sample: 175696 - 0154-DRW02-0701

Analysis:	TOC	Analytical Method:	E 415.1	QC Batch:	QC13094	Date Analyzed:	8/2/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB11189	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		20.5	mg/L	1	1

Sample: 175698 - 0154-DRW05-0701

Analysis:	TOC	Analytical Method:	E 415.1	QC Batch:	QC13094	Date Analyzed:	8/2/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB11189	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		13.7	mg/L	1	1

Sample: 175700 - 0154-DRW12-0701

Analysis:	TOC	Analytical Method:	E 415.1	QC Batch:	QC13094	Date Analyzed:	8/2/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB11189	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		4.63	mg/L	1	1

Sample: 175702 - 0154-DRW13-0701

Analysis:	TOC	Analytical Method:	E 415.1	QC Batch:	QC13324	Date Analyzed:	8/14/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB11370	Date Prepared:	8/14/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		1.15	mg/L	1	1

Sample: 175854 - 0154-HCF01-0701

Analysis:	TOC	Analytical Method:	E 415.1	QC Batch:	QC13324	Date Analyzed:	8/14/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB11370	Date Prepared:	8/14/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		5.57	mg/L	1	1

Sample: 175856 - 0154-DRW16-0701

Analysis:	TOC	Analytical Method:	E 415.1	QC Batch:	QC13324	Date Analyzed:	8/14/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB11370	Date Prepared:	8/14/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		1.37	mg/L	1	1

Quality Control Report
Method Blank

Method Blank QCBatch: QC13094

Param	Flag	Results	Units	Reporting Limit
Total Organic Carbon		<1	mg/L	1

Method Blank QCBatch: QC13324

Param	Flag	Results	Units	Reporting Limit
Total Organic Carbon		<1	mg/L	1

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC13094

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Organic Carbon	5.20	5.32	mg/L	1	5	<1	104	2	85 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC13324

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Organic Carbon	5.29	5.02	mg/L	1	5	<1	105	5	85 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Matrix Spikes and Duplicate Spikes

Matrix Spikes QCBatch: QC13094

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Organic Carbon	[1] 13.1	[2] 11.98	mg/L	1	5	4.63	169	14	85 - 118	20

[1]MS/MSD had poor recovry. LCS/LCSD show process in control.
[2]MS/MSD had poor recovry. LCS/LCSD show process in control.

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC13324

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Organic Carbon	8.64	8.38	mg/L	1	5	2.75	117	4	85 - 118	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC13094

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Organic Carbon		mg/L	5	5.56	111	85 - 115	8/2/01

ICV (1) QCBatch: QC13094

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Organic Carbon		mg/L	5	5.4	108	85 - 115	8/2/01

CCV (1) QCBatch: QC13324

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Organic Carbon		mg/L	5	5.34	106	85 - 115	8/14/01

ICV (1) QCBatch: QC13324

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Organic Carbon		mg/L	5	4.87	97	85 - 115	8/14/01

DRO Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 28, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 8 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Ard

Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC13007	Date Analyzed:	8/1/01
Analyst:	JJ	Preparation Method:	3510C - Mod.	Prep Batch:	PB11111	Date Prepared:	8/1/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[1]	41	mg/L	0.10	250	164	70 - 130

Sample: 175645 - 0154-DRW03-0701-QC

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12943	Date Analyzed:	7/30/01
Analyst:	JJ	Preparation Method:	3510C - Mod.	Prep Batch:	PB11073	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[2]	33.4	mg/L	1	250	13	70 - 130

Sample: 175647 - 0154-DRW04-0701

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12943	Date Analyzed:	7/30/01
Analyst:	JJ	Preparation Method:	3510C - Mod.	Prep Batch:	PB11073	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[3]	32.1	mg/L	1	250	12	70 - 130

Sample: 175649 - 0154-HCF05-0701

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC13007	Date Analyzed:	8/1/01
Analyst:	JJ	Preparation Method:	3510C - Mod.	Prep Batch:	PB11111	Date Prepared:	8/1/01

Param	Flag	Result	Units	Dilution	RDL
DRO		221	mg/L	0.10	50

[1]Surrogate above standard range due to over concentration during prep.
[2]Surrogate above standard range due to over concentration during prep.
[3]Surrogate above standard range due to over concentration during prep.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[4]	42.4	mg/L	0.10	250	169	70 - 130

Sample: 175651 - 0154-HCF05-0701-QC

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC13007	Date Analyzed:	8/1/01
Analyst:	JJ	Preparation Method:	3510C - Mod.	Prep Batch:	PB11111	Date Prepared:	8/1/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[5]	36.3	mg/L	0.10	250	145	70 - 130

Sample: 175653 - 0154-HCF07-0701

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC13007	Date Analyzed:	8/1/01
Analyst:	JJ	Preparation Method:	3510C - Mod.	Prep Batch:	PB11111	Date Prepared:	8/1/01

Param	Flag	Result	Units	Dilution	RDL
DRO		1620	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[6]	69.7	mg/L	0.10	250	278	70 - 130

Sample: 175694 - 0154-DRW01-0701

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC13007	Date Analyzed:	8/1/01
Analyst:	JJ	Preparation Method:	3510C - Mod.	Prep Batch:	PB11111	Date Prepared:	8/1/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		32.4	mg/L	0.10	250	129	70 - 130

Sample: 175696 - 0154-DRW02-0701

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC13007	Date Analyzed:	8/1/01
Analyst:	JJ	Preparation Method:	3510C - Mod.	Prep Batch:	PB11111	Date Prepared:	8/1/01

Continued ...

[4]Surrogate above standard range due to over concentration during prep.
[5]Surrogate above standard range due to over concentration during prep.
[6]Surrogate above standard range due to over concentration during prep.

... Continued Sample: 175696 Analysis: TPH DRO

Param	Flag	Result	Units	Dilution	RDL
DRO		1180	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[7]	48.5	mg/L	0.10	250	194	70 - 130

Sample: 175698 - 0154-DRW05-0701

Analysis: TPH DRO | Analytical Method: Mod. 8015B | QC Batch: QC12943 | Date Analyzed: 7/30/01
Analyst: JJ | Preparation Method: 3510C - Mod. | Prep Batch: PB11073 | Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		28.1	mg/L	1	25	112	70 - 130

Sample: 175700 - 0154-DRW12-0701

Analysis: TPH DRO | Analytical Method: Mod. 8015B | QC Batch: QC12943 | Date Analyzed: 7/30/01
Analyst: JJ | Preparation Method: 3510C - Mod. | Prep Batch: PB11073 | Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		31.5	mg/L	1	25	126	70 - 130

Sample: 175702 - 0154-DRW13-0701

Analysis: TPH DRO | Analytical Method: Mod. 8015B | QC Batch: QC12943 | Date Analyzed: 7/30/01
Analyst: JJ | Preparation Method: 3510C - Mod. | Prep Batch: PB11073 | Date Prepared: 7/30/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		30.8	mg/L	1	25	123	70 - 130

[7] Surrogate above standard range due to over concentration during prep.

Sample: 175854 - 0154-HCF01-0701

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12943	Date Analyzed:	7/30/01
Analyst:	JJ	Preparation Method:	3510C - Mod.	Prep Batch:	PB11073	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		28.5	mg/L	1	25	114	70 130

Sample: 175856 - 0154-DRW16-0701

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC12943	Date Analyzed:	7/30/01
Analyst:	JJ	Preparation Method:	3510C - Mod.	Prep Batch:	PB11073	Date Prepared:	7/30/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	1	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		28.6	mg/L	1	25	114	70 - 130

Quality Control Report
Method Blank

Method Blank QCBatch: QC12943

Param	Flag	Results	Units	Reporting Limit
DRO		<5	mg/L	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		30.5	mg/L	1	25	122	70 - 130

Method Blank QCBatch: QC13007

Param	Flag	Results	Units	Reporting Limit
DRO		<5	mg/L	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane	[8]	40.4	mg/L	0.10	250	161	70 - 130

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC12943

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	215	221	mg/L	1	250	<5	86	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
n-Octane	[9] 35.4	[10] 33.3	mg/L	1	25	141	133	70 - 130

Laboratory Control Spikes QCBatch: QC13007

[8] Surrogate above standard range due to over concentration during prep.
[9] Surrogate above standard range due to over concentration during prep.
[10] Surrogate above standard range due to over concentration during prep.

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
DRO	215	221	mg/L	0.10	250	<5	100	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
n-Octane	[11] 39.5	[12] 37.5	mg/L	0.10	250	158	150	70 - 130

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12943

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	254	101	85 - 115	7/30/01
n-Octane		mg/L	250	292	116	85 - 115	7/30/01

CCV (2) QCBatch: QC12943

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	272	108	85 - 115	7/30/01
n-Octane		mg/L	250	320	128	85 - 115	7/30/01

ICV (1) QCBatch: QC12943

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	268	107	85 - 115	7/30/01
n-Octane		mg/L	250	307	122	85 - 115	7/30/01

CCV (1) QCBatch: QC13007

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	266	106	85 - 115	8/1/01

Continued ...

[11] Surrogate above standard range due to over concentration during prep.
[12] Surrogate above standard range due to over concentration during prep.

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
n-Octane	[13]	mg/L	250	376	150	85 - 115	8/1/01

CCV (2)

QCBatch: QC13007

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	242	96	85 - 115	8/1/01
n-Octane	[14]	mg/L	250	367	146	85 - 115	8/1/01

ICV (1)

QCBatch: QC13007

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	240	96	85 - 115	8/1/01
n-Octane	[15]	mg/L	250	361	144	85 - 115	8/1/01

[13]Surrogate above standard range due to over concentration during prep.
[14]Surrogate above standard range due to over concentration during prep.
[15]Surrogate above standard range due to over concentration during prep.

TDS Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 23, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis:	TDS (El Paso)	Analytical Method:	SM 2540C	QC Batch:	QC12935	Date Analyzed:	7/23/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB11061	Date Prepared:	7/23/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		12,500	mg/L	1	5

Sample: 175645 - 0154-DRW03-0701-QC

Analysis:	TDS (El Paso)	Analytical Method:	SM 2540C	QC Batch:	QC12935	Date Analyzed:	7/23/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB11061	Date Prepared:	7/23/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		12,000	mg/L	1	5

Sample: 175647 - 0154-DRW04-0701

Analysis:	TDS (El Paso)	Analytical Method:	SM 2540C	QC Batch:	QC12935	Date Analyzed:	7/23/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB11061	Date Prepared:	7/23/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		8,750	mg/L	1	5

Sample: 175649 - 0154-HCF05-0701

Analysis:	TDS (El Paso)	Analytical Method:	SM 2540C	QC Batch:	QC12935	Date Analyzed:	7/23/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB11061	Date Prepared:	7/23/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		7,900	mg/L	1	5

Sample: 175651 - 0154-HCF05-0701-QC

Analysis:	TDS (El Paso)	Analytical Method:	SM 2540C	QC Batch:	QC12935	Date Analyzed:	7/23/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB11061	Date Prepared:	7/23/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		7,750	mg/L	1	5

Sample: 175653 - 0154-HCF07-0701

Analysis:	TDS (El Paso)	Analytical Method:	SM 2540C	QC Batch:	QC12935	Date Analyzed:	7/23/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB11061	Date Prepared:	7/23/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		7,920	mg/L	1	5

Sample: 175694 - 0154-DRW01-0701

Analysis:	TDS (El Paso)	Analytical Method:	SM 2540C	QC Batch:	QC13171	Date Analyzed:	7/25/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB11265	Date Prepared:	7/25/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		7,700	mg/L	1	5

Sample: 175696 - 0154-DRW02-0701

Analysis:	TDS (El Paso)	Analytical Method:	SM 2540C	QC Batch:	QC13171	Date Analyzed:	7/25/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB11265	Date Prepared:	7/25/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		9,700	mg/L	1	5

Sample: 175698 - 0154-DRW05-0701

Analysis:	TDS (El Paso)	Analytical Method:	SM 2540C	QC Batch:	QC13171	Date Analyzed:	7/25/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB11265	Date Prepared:	7/25/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		8,700	mg/L	1	5

Sample: 175700 - 0154-DRW12-0701

Analysis:	TDS (El Paso)	Analytical Method:	SM 2540C	QC Batch:	QC13171	Date Analyzed:	7/25/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB11265	Date Prepared:	7/25/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		30,000	mg/L	1	5

Sample: 175702 - 0154-DRW13-0701

Analysis:	TDS (El Paso)	Analytical Method:	SM 2540C	QC Batch:	QC13171	Date Analyzed:	7/25/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB11265	Date Prepared:	7/25/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		6,900	mg/L	1	5

Sample: 175854 - 0154-HCF01-0701

Analysis:	TDS (El Paso)	Analytical Method:	SM 2540C	QC Batch:	QC13170	Date Analyzed:	7/26/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB11257	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		16,000	mg/L	1	5

Sample: 175856 - 0154-DRW16-0701

Analysis:	TDS (El Paso)	Analytical Method:	SM 2540C	QC Batch:	QC13170	Date Analyzed:	7/26/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB11257	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		12,000	mg/L	1	5

Quality Control Report
Method Blank

Method Blank QCBatch: QC12935

Param	Flag	Results	Units	Reporting Limit
Total Dissolved Solids		<50	mg/L	5

Method Blank QCBatch: QC13170

Param	Flag	Results	Units	Reporting Limit
Total Dissolved Solids		<50	mg/L	5

Method Blank QCBatch: QC13171

Param	Flag	Results	Units	Reporting Limit
Total Dissolved Solids		<50	mg/L	5

Quality Control Report
Duplicate Samples

Duplicate QCBatch: QC12935

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		12,400	12,500	mg/L	1	1	20

Duplicate QCBatch: QC13170

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		12000	12,000	mg/L	1	0	20

Duplicate QCBatch: QC13171

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		7,700	7,700	mg/L	1	0	20

Quality Control Report

Continuing Calibration Verification Standards

ICV (1) QCBatch: QC12935

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	988	98	90 - 110	7/23/01

ICV (1) QCBatch: QC13170

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1004	100	90 - 110	7/26/01

ICV (1) QCBatch: QC13171

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1012	101	90 - 110	7/25/01

pH Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 24, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis:	pH (El Paso)	Analytical Method:	SM 4500-H+	QC Batch:	QC12867	Date Analyzed:	7/23/01
Analyst:	LG/AM	Preparation Method:	N/A	Prep Batch:	PB11004	Date Prepared:	7/23/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.95	s.u.	1	1

Sample: 175645 - 0154-DRW03-0701-QC

Analysis:	pH (El Paso)	Analytical Method:	SM 4500-H+	QC Batch:	QC12867	Date Analyzed:	7/23/01
Analyst:	LG/AM	Preparation Method:	N/A	Prep Batch:	PB11004	Date Prepared:	7/23/01

Param	Flag	Result	Units	Dilution	RDL
pH		8.00	s.u.	1	1

Sample: 175647 - 0154-DRW04-0701

Analysis:	pH (El Paso)	Analytical Method:	SM 4500-H+	QC Batch:	QC12867	Date Analyzed:	7/23/01
Analyst:	LG/AM	Preparation Method:	N/A	Prep Batch:	PB11004	Date Prepared:	7/23/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.71	s.u.	1	1

Sample: 175649 - 0154-HCF05-0701

Analysis:	pH (El Paso)	Analytical Method:	SM 4500-H+	QC Batch:	QC12867	Date Analyzed:	7/23/01
Analyst:	LG/AM	Preparation Method:	N/A	Prep Batch:	PB11004	Date Prepared:	7/23/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.93	s.u.	1	1

Sample: 175651 - 0154-HCF05-0701-QC

Analysis:	pH (El Paso)	Analytical Method:	SM 4500-H+	QC Batch:	QC12867	Date Analyzed:	7/23/01
Analyst:	LG/AM	Preparation Method:	N/A	Prep Batch:	PB11004	Date Prepared:	7/23/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.88	s.u.	1	1

Sample: 175653 - 0154-HCF07-0701

Analysis:	pH (El Paso)	Analytical Method:	SM 4500-H+	QC Batch:	QC12867	Date Analyzed:	7/23/01
Analyst:	LG/AM	Preparation Method:	N/A	Prep Batch:	PB11004	Date Prepared:	7/23/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.91	s.u.	1	1

Sample: 175694 - 0154-DRW01-0701

Analysis: pH (El Paso) Analytical Method: SM 4500-H+ QC Batch: QC13123 Date Analyzed: 7/24/01
Analyst: LG/AM Preparation Method: N/A Prep Batch: PB11211 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.01	s.u.	1	1

Sample: 175696 - 0154-DRW02-0701

Analysis: pH (El Paso) Analytical Method: SM 4500-H+ QC Batch: QC13123 Date Analyzed: 7/24/01
Analyst: LG/AM Preparation Method: N/A Prep Batch: PB11211 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.75	s.u.	1	1

Sample: 175698 - 0154-DRW05-0701

Analysis: pH (El Paso) Analytical Method: SM 4500-H+ QC Batch: QC13123 Date Analyzed: 7/24/01
Analyst: LG/AM Preparation Method: N/A Prep Batch: PB11211 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.73	s.u.	1	1

Sample: 175700 - 0154-DRW12-0701

Analysis: pH (El Paso) Analytical Method: SM 4500-H+ QC Batch: QC13123 Date Analyzed: 7/24/01
Analyst: LG/AM Preparation Method: N/A Prep Batch: PB11211 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.19	s.u.	1	1

Sample: 175702 - 0154-DRW13-0701

Analysis: pH (El Paso) Analytical Method: SM 4500-H+ QC Batch: QC13123 Date Analyzed: 7/24/01
Analyst: LG/AM Preparation Method: N/A Prep Batch: PB11211 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
pH		8.05	s.u.	1	1

Sample: 175854 - 0154-HCF01-0701

Analysis: pH (El Paso) Analytical Method: SM 4500-H+ QC Batch: QC13124 Date Analyzed: 7/26/01
Analyst: LG Preparation Method: N/A Prep Batch: PB11212 Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.74	s.u.	1	1

Sample: 175856 - 0154-DRW16-0701

Analysis: pH (El Paso) Analytical Method: SM 4500-H+ QC Batch: QC13124 Date Analyzed: 7/26/01
Analyst: LG Preparation Method: N/A Prep Batch: PB11212 Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.80	s.u.	1	1

Quality Control Report
Duplicate Samples

Duplicate QCBatch: QC12867

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH		7.87	7.95	s.u.	1	1	1.2

Duplicate QCBatch: QC13123

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH		7.02	7.01	s.u.	1	0	1.2

Duplicate QCBatch: QC13124

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH		7.77	7.74	s.u.	1	0	1.2

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12867

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	8	7.95	99	-0.1 s.u. - +0.1 s.u.	7/23/01

ICV (1) QCBatch: QC12867

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	8	7.92	99	-0.1 s.u. - +0.1 s.u.	7/23/01

CCV (1) QCBatch: QC13123

Continued . . .

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	8	7.97	99	-0.1 s.u. - +0.1 s.u.	7/24/01

ICV (1) QCBatch: QC13123

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	8	7.95	99	-0.1 s.u. - +0.1 s.u.	7/24/01

CCV (1) QCBatch: QC13124

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	8	8.01	100	-0.1 s.u. - +0.1 s.u.	7/26/01

ICV (1) QCBatch: QC13124

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	8	7.96	99	-0.1 s.u. - +0.1 s.u.	7/26/01

Specific Conductance Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 23, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis: Conductivity (El Paso) Analytical Method: SM 2510B QC Batch: QC12870 Date Analyzed: 7/23/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11006 Date Prepared: 7/23/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		15,000	μMHOS/cm	1	1

Sample: 175645 - 0154-DRW03-0701-QC

Analysis: Conductivity (El Paso) Analytical Method: SM 2510B QC Batch: QC12870 Date Analyzed: 7/23/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11006 Date Prepared: 7/23/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		15,000	μMHOS/cm	1	1

Sample: 175647 - 0154-DRW04-0701

Analysis: Conductivity (El Paso) Analytical Method: SM 2510B QC Batch: QC12870 Date Analyzed: 7/23/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11006 Date Prepared: 7/23/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		11,000	μMHOS/cm	1	1

Sample: 175649 - 0154-HCF05-0701

Analysis: Conductivity (El Paso) Analytical Method: SM 2510B QC Batch: QC12870 Date Analyzed: 7/23/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11006 Date Prepared: 7/23/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		10,000	μMHOS/cm	1	1

Sample: 175651 - 0154-HCF05-0701-QC

Analysis: Conductivity (El Paso) Analytical Method: SM 2510B QC Batch: QC12870 Date Analyzed: 7/23/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11006 Date Prepared: 7/23/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		10,000	μMHOS/cm	1	1

Sample: 175653 - 0154-HCF07-0701

Analysis: Conductivity (El Paso) Analytical Method: SM 2510B QC Batch: QC12870 Date Analyzed: 7/23/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11006 Date Prepared: 7/23/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		10,000	μMHOS/cm	1	1

Sample: 175694 - 0154-DRW01-0701

Analysis: Conductivity (El Paso) Analytical Method: SM 2510B QC Batch: QC12937 Date Analyzed: 7/24/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11058 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		9,550	μMHOS/cm	1	1

Sample: 175696 - 0154-DRW02-0701

Analysis: Conductivity (El Paso) Analytical Method: SM 2510B QC Batch: QC12937 Date Analyzed: 7/24/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11058 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		11,800	μMHOS/cm	1	1

Sample: 175698 - 0154-DRW05-0701

Analysis: Conductivity (El Paso) Analytical Method: SM 2510B QC Batch: QC12937 Date Analyzed: 7/24/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11058 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		10,700	μMHOS/cm	1	1

Sample: 175700 - 0154-DRW12-0701

Analysis: Conductivity (El Paso) Analytical Method: SM 2510B QC Batch: QC12937 Date Analyzed: 7/24/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11058 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		30,100	μMHOS/cm	1	1

Sample: 175702 - 0154-DRW13-0701

Analysis: Conductivity (El Paso) Analytical Method: SM 2510B QC Batch: QC12937 Date Analyzed: 7/24/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11058 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		7,570	μMHOS/cm	1	1

Sample: 175854 - 0154-HCF01-0701

Analysis: Conductivity (El Paso) Analytical Method: SM 2510B QC Batch: QC13165 Date Analyzed: 7/31/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11252 Date Prepared: 7/31/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		15,000	μMHOS/cm	1	1

Sample: 175856 - 0154-DRW16-0701

Analysis: Conductivity (El Paso) Analytical Method: SM 2510B QC Batch: QC13165 Date Analyzed: 7/31/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11252 Date Prepared: 7/31/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		12,000	μMHOS/cm	1	1

Quality Control Report
Method Blank

Method Blank QCBatch: QC12870

Param	Flag	Results	Units	Reporting Limit
Specific Conductance		<1.0	μMHOS/cm	1

Method Blank QCBatch: QC12937

Param	Flag	Results	Units	Reporting Limit
Specific Conductance		<1.0	μMHOS/cm	1

Method Blank QCBatch: QC13165

Param	Flag	Results	Units	Reporting Limit
Specific Conductance		<1.0	μMHOS/cm	1

Quality Control Report
Duplicate Samples

Duplicate QCBatch: QC12870

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Conductance		15000	15,000	μMHOS/cm	1	0	20

Duplicate QCBatch: QC12937

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Conductance		9570	9,550	μMHOS/cm	1	199	20

Duplicate QCBatch: QC13165

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Conductance		15000	15,000	μMHOS/cm	1	0	20

Quality Control Report

Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12870

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μMHOS/cm	1413	1410	99	80 - 120	7/23/01

ICV (1) QCBatch: QC12870

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μMHOS/cm	1413	1390	98	80 - 120	7/23/01

CCV (1) QCBatch: QC12937

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μMHOS/cm	1413	1401	99	80 - 120	7/24/01

ICV (1) QCBatch: QC12937

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μMHOS/cm	1413	1404	99	80 - 120	7/24/01

CCV (1) QCBatch: QC13165

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μMHOS/cm	1413	1400	99	80 - 120	7/31/01

ICV (1) QCBatch: QC13165

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μMHOS/cm	1413	1400	99	80 - 120	7/31/01

Alkalinity Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 23, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis: Alkalinity (El Paso) Analytical Method: SM 2320B QC Batch: QC12871 Date Analyzed: 7/23/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11007 Date Prepared: 7/23/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		1200	mg/L as CaCo3	1	5
Total Alkalinity		1200	mg/L as CaCo3	1	5

Sample: 175645 - 0154-DRW03-0701-QC

Analysis: Alkalinity (El Paso) Analytical Method: SM 2320B QC Batch: QC12871 Date Analyzed: 7/23/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11007 Date Prepared: 7/23/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		1200	mg/L as CaCo3	1	5
Total Alkalinity		1200	mg/L as CaCo3	1	5

Sample: 175647 - 0154-DRW04-0701

Analysis: Alkalinity (El Paso) Analytical Method: SM 2320B QC Batch: QC12871 Date Analyzed: 7/23/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11007 Date Prepared: 7/23/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		1500	mg/L as CaCo3	1	5
Total Alkalinity		1500	mg/L as CaCo3	1	5

Sample: 175649 - 0154-HCF05-0701

Analysis: Alkalinity (El Paso) Analytical Method: SM 2320B QC Batch: QC12871 Date Analyzed: 7/23/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11007 Date Prepared: 7/23/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		2200	mg/L as CaCo3	1	5
Total Alkalinity		2200	mg/L as CaCo3	1	5

Sample: 175651 - 0154-HCF05-0701-QC

Analysis: Alkalinity (El Paso) Analytical Method: SM 2320B QC Batch: QC12871 Date Analyzed: 7/23/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11007 Date Prepared: 7/23/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		2200	mg/L as CaCo3	1	5
Total Alkalinity		2200	mg/L as CaCo3	1	5

Sample: 175653 - 0154-HCF07-0701

Analysis: Alkalinity (El Paso) Analytical Method: SM 2320B QC Batch: QC12871 Date Analyzed: 7/23/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11007 Date Prepared: 7/23/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		1800	mg/L as CaCo3	1	5
Total Alkalinity		1800	mg/L as CaCo3	1	5

Sample: 175694 - 0154-DRW01-0701

Analysis: Alkalinity (El Paso) Analytical Method: SM 2320B QC Batch: QC12925 Date Analyzed: 7/24/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11056 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		2150	mg/L as CaCo3	1	5
Total Alkalinity		2150	mg/L as CaCo3	1	5

Sample: 175696 - 0154-DRW02-0701

Analysis: Alkalinity (El Paso) Analytical Method: SM 2320B QC Batch: QC12925 Date Analyzed: 7/24/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11056 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		1590	mg/L as CaCo3	1	5
Total Alkalinity		1590	mg/L as CaCo3	1	5

Sample: 175698 - 0154-DRW05-0701

Analysis: Alkalinity (El Paso) Analytical Method: SM 2320B QC Batch: QC12925 Date Analyzed: 7/24/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11056 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		1300	mg/L as CaCo3	1	5
Total Alkalinity		1300	mg/L as CaCo3	1	5

Sample: 175700 - 0154-DRW12-0701

Analysis: Alkalinity (El Paso) Analytical Method: SM 2320B QC Batch: QC12925 Date Analyzed: 7/24/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11056 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		168	mg/L as CaCo3	1	5
Total Alkalinity		168	mg/L as CaCo3	1	5

Sample: 175702 - 0154-DRW13-0701

Analysis: Alkalinity (El Paso) Analytical Method: SM 2320B QC Batch: QC12925 Date Analyzed: 7/24/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11056 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		95.4	mg/L as CaCo3	1	5
Total Alkalinity		95.4	mg/L as CaCo3	1	5

Sample: 175854 - 0154-HCF01-0701

Analysis: Alkalinity (El Paso) Analytical Method: SM 2320B QC Batch: QC13159 Date Analyzed: 8/1/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11248 Date Prepared: 8/1/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		280	mg/L as CaCo3	1	5
Total Alkalinity		280	mg/L as CaCo3	1	5

Sample: 175856 - 0154-DRW16-0701

Analysis: Alkalinity (El Paso) Analytical Method: SM 2320B QC Batch: QC13159 Date Analyzed: 8/1/01
Analyst: AM Preparation Method: N/A Prep Batch: PB11248 Date Prepared: 8/1/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		190	mg/L as CaCo3	1	5
Total Alkalinity		190	mg/L as CaCo3	1	5

Quality Control Report
Method Blank

Method Blank QCBatch: QC12871

Param	Flag	Results	Units	Reporting Limit
Carbonate Alkalinity		<5.0	mg/L as CaCo3	5
Bicarbonate Alkalinity		<5.0	mg/L as CaCo3	5
Total Alkalinity		<5.0	mg/L as CaCo3	5

Method Blank QCBatch: QC12925

Param	Flag	Results	Units	Reporting Limit
Carbonate Alkalinity		<5.0	mg/L as CaCo3	5
Bicarbonate Alkalinity		<5.0	mg/L as CaCo3	5
Total Alkalinity		<5.0	mg/L as CaCo3	5

Method Blank QCBatch: QC13159

Param	Flag	Results	Units	Reporting Limit
Carbonate Alkalinity		<5.0	mg/L as CaCo3	5
Bicarbonate Alkalinity		<5.0	mg/L as CaCo3	5
Total Alkalinity		<5.0	mg/L as CaCo3	5

Quality Control Report
Duplicate Samples

Duplicate QCBatch: QC12871

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Carbonate Alkalinity		<5.0	<5.0	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity		1200	1200	mg/L as CaCo3	1	0	20
Total Alkalinity		1200	1200	mg/L as CaCo3	1	0	20

Duplicate QCBatch: QC12925

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Carbonate Alkalinity		<5.0	<5.0	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity		172	168	mg/L as CaCo3	1	2	20
Total Alkalinity		172	168	mg/L as CaCo3	1	2	20

Duplicate QCBatch: QC13159

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Carbonate Alkalinity		<5.0	0	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity		180	180	mg/L as CaCo3	1	0	20
Total Alkalinity		180	180	mg/L as CaCo3	1	0	20

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12871

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	100	94.5	94	90 - 110	7/23/01

ICV (1) QCBatch: QC12871

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	100	92.4	92	90 - 110	7/23/01

CCV (1) QCBatch: QC12925

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	100	96.9	96	90 - 110	7/24/01

ICV (1) QCBatch: QC12925

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	100	96.6	96	90 - 110	7/24/01

CCV (1) QCBatch: QC13159

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	100	96.6	96	90 - 110	8/1/01

ICV (1) QCBatch: QC13159

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	100	92.4	92	90 - 110	8/1/01

Dissolved Ion Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 24, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis: Ion Chromatography (IC) (El Paso) Analytical Method: E 300.0 QC Batch: QC12926 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11057 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<10	mg/L	5	2
CL		1700	mg/L	100	2
Fluoride		2.1	mg/L	5	0.20
Nitrite-N		<0.50	mg/L	5	0.10
Nitrate-N		46	mg/L	100	0.10
Sulfate		6,200	mg/L	100	1

Sample: 175645 - 0154-DRW03-0701-QC

Analysis: Ion Chromatography (IC) (El Paso) Analytical Method: E 300.0 QC Batch: QC12926 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11057 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<10	mg/L	5	2
CL		1,600	mg/L	100	2
Fluoride		5.1	mg/L	5	0.20
Nitrite-N		<0.50	mg/L	5	0.10
Nitrate-N		55	mg/L	100	0.10
Sulfate		5,700	mg/L	100	1

Sample: 175647 - 0154-DRW04-0701

Analysis: Ion Chromatography (IC) (El Paso) Analytical Method: E 300.0 QC Batch: QC12926 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11057 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<10	mg/L	5	2
CL		900	mg/L	100	2
Fluoride		1.1	mg/L	5	0.20
Nitrite-N		<0.50	mg/L	5	0.10
Nitrate-N		3.3	mg/L	5	0.10
Sulfate		3,600	mg/L	100	1

Sample: 175649 - 0154-HCF05-0701

Analysis: Ion Chromatography (IC) (El Paso) Analytical Method: E 300.0 QC Batch: QC12926 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11057 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<10	mg/L	5	2
CL		780	mg/L	100	2
Fluoride		<1.0	mg/L	5	0.20
Nitrite-N		<0.50	mg/L	5	0.10
Nitrate-N		3.1	mg/L	5	0.10
Sulfate		3,000	mg/L	100	1

Sample: 175651 - 0154-HCF05-0701-QC

Analysis: Ion Chromatography (IC) (El Paso) Analytical Method: E 300.0 QC Batch: QC12926 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11057 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<10	mg/L	5	2
CL		770	mg/L	100	2
Fluoride		<1.0	mg/L	5	0.20
Nitrite-N		<0.50	mg/L	5	0.10
Nitrate-N		2.9	mg/L	5	0.10
Sulfate		2,900	mg/L	100	1

Sample: 175653 - 0154-HCF07-0701

Analysis: Ion Chromatography (IC) (El Paso) Analytical Method: E 300.0 QC Batch: QC12926 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11057 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<10	mg/L	5	2
CL		850	mg/L	100	2
Fluoride		<1.0	mg/L	5	0.20
Nitrite-N		<0.50	mg/L	5	0.10
Nitrate-N		12	mg/L	5	0.10
Sulfate		3,300	mg/L	100	1

Sample: 175694 - 0154-DRW01-0701

Analysis: Ion Chromatography (IC) (El Paso) Analytical Method: E 300.0 QC Batch: QC13182 Date Analyzed: 7/25/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11264 Date Prepared: 7/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<10	mg/L	5	2
CL		720	mg/L	100	2
Fluoride		1.4	mg/L	5	0.20
Nitrite-N		<0.5	mg/L	5	0.10
Nitrate-N		2.0	mg/L	5	0.10
Sulfate		2,900	mg/L	100	1

Sample: 175696 - 0154-DRW02-0701

Analysis: Ion Chromatography (IC) (El Paso) Analytical Method: E 300.0 QC Batch: QC13182 Date Analyzed: 7/25/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11264 Date Prepared: 7/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<10	mg/L	5	2
CL		1,300	mg/L	100	2
Fluoride		<1.0	mg/L	5	0.20
Nitrite-N		<0.5	mg/L	5	0.10
Nitrate-N		22	mg/L	100	0.10
Sulfate		4,500	mg/L	100	1

Sample: 175698 - 0154-DRW05-0701

Analysis: Ion Chromatography (IC) (El Paso) Analytical Method: E 300.0 QC Batch: QC13182 Date Analyzed: 7/25/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11264 Date Prepared: 7/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<20	mg/L	10	2
CL		1,100	mg/L	100	2
Fluoride		<2.0	mg/L	10	0.20
Nitrite-N		1.5	mg/L	10	0.10
Nitrate-N		9.8	mg/L	10	0.10
Sulfate		3,600	mg/L	100	1

Sample: 175700 - 0154-DRW12-0701

Analysis: Ion Chromatography (IC) (El Paso) Analytical Method: E 300.0 QC Batch: QC13182 Date Analyzed: 7/25/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11264 Date Prepared: 7/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<20	mg/L	10	2
CL		6,000	mg/L	100	2
Fluoride		<20	mg/L	100	0.20
Nitrite-N		<1.0	mg/L	10	0.10
Nitrate-N		200	mg/L	100	0.10
Sulfate		11,000	mg/L	1000	1

Sample: 175702 - 0154-DRW13-0701

Analysis: Ion Chromatography (IC) (El Paso) Analytical Method: E 300.0 QC Batch: QC13182 Date Analyzed: 7/25/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11264 Date Prepared: 7/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<10	mg/L	5	2
CL		720	mg/L	100	2
Fluoride		3.5	mg/L	5	0.20
Nitrite-N		<0.5	mg/L	5	0.10
Nitrate-N		27	mg/L	100	0.10
Sulfate		3,800	mg/L	100	1

Sample: 175854 - 0154-HCF01-0701

Analysis: Ion Chromatography (IC) (El Paso) Analytical Method: E 300.0 QC Batch: QC13181 Date Analyzed: 7/26/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11263 Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<20	mg/L	10	2
CL		1,200	mg/L	100	2
Fluoride		<2.0	mg/L	10	0.20
Nitrite-N		<1.0	mg/L	10	0.10
Nitrate-N		44	mg/L	100	0.10
Sulfate		8,100	mg/L	100	1

Sample: 175856 - 0154-DRW16-0701

Analysis: Ion Chromatography (IC) (El Paso) Analytical Method: E 300.0 QC Batch: QC13181 Date Analyzed: 7/26/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11263 Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<20	mg/L	10	2
CL		1,500	mg/L	100	2
Fluoride		<2.0	mg/L	10	0.20
Nitrite-N		<1.0	mg/L	10	0.10
Nitrate-N		43	mg/L	100	0.10
Sulfate		6,500	mg/L	100	1

Quality Control Report
Method Blank

Method Blank QCBatch: QC12926

Param	Flag	Results	Units	Reporting Limit
Bromide		<2.0	mg/L	2
CL		<2.0	mg/L	2
Fluoride		<0.20	mg/L	0.20
Nitrite-N		<0.10	mg/L	0.10
Nitrate-N		<0.10	mg/L	0.10
Sulfate		<1.0	mg/L	1

Method Blank QCBatch: QC13181

Param	Flag	Results	Units	Reporting Limit
Bromide		<2.0	mg/L	2
CL		<2.0	mg/L	2
Fluoride		<0.20	mg/L	0.20
Nitrite-N		<0.10	mg/L	0.10
Nitrate-N		<0.10	mg/L	0.10
Sulfate		<1.0	mg/L	1

Method Blank QCBatch: QC13182

Param	Flag	Results	Units	Reporting Limit
Bromide		<2.0	mg/L	2
CL		<2.0	mg/L	2
Fluoride		<0.20	mg/L	0.20
Nitrite-N		<0.10	mg/L	0.10
Nitrate-N		<0.10	mg/L	0.10
Sulfate		<1.0	mg/L	1

Quality Control Report
Matrix Spikes and Duplicate Spikes

Matrix Spikes QCBatch: QC12926

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Bromide	95.1	96.2	mg/L	1	100	<10	95	1	80 - 120	20
CL	1810	1800	mg/L	1	1000	780	103	0	80 - 120	20
Fluoride	49.1	49.2	mg/L	1	50	<1.0	98	0	80 - 113	20
Nitrite-N	24.9	24.9	mg/L	1	25	<0.50	99	0	80 - 120	20

Continued . . .

... Continued

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Nitrate-N	24.9	24.9	mg/L	1	25	3.1	87	0	84 - 105	20
Sulfate	5310	5320	mg/L	1	2500	3,000	92	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC13181

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Bromide	190	187	mg/L	1	200	<20	95	1	80 - 120	20
CL	3190	3300	mg/L	1	2000	1,200	99	5	80 - 120	20
Fluoride	95.8	95.9	mg/L	1	100	<2.0	95	0	80 - 113	20
Nitrite-N	52.6	52.4	mg/L	1	50	<1.0	105	0	80 - 120	20
Nitrate-N	89.2	89.0	mg/L	1	50	44	90	0	84 - 105	20
Sulfate	13000	14000	mg/L	1	5000	8,100	98	18	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC13182

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Bromide	96.8	96.8	mg/L	1	100	<10	96	0	80 - 120	20
CL	2450	2440	mg/L	1	2000	720	86	0	80 - 120	20
Fluoride	47.8	47.7	mg/L	1	50	1.4	92	0	80 - 113	20
Nitrite-N	25.7	25.5	mg/L	1	25	<0.5	102	0	80 - 120	20
Nitrate-N	23.2	23.1	mg/L	1	25	2.0	84	0	84 - 105	20
Sulfate	7710	7720	mg/L	1	5000	2,900	96	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12926

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	20	19.9	99	90 - 110	7/24/01
CL		mg/L	20	19.8	99	90 - 110	7/24/01
Fluoride		mg/L	10	10.4	104	90 - 110	7/24/01
Nitrite-N		mg/L	5	5.16	103	90 - 110	7/24/01
Nitrate-N		mg/L	5	4.73	94	90 - 110	7/24/01
Sulfate		mg/L	50	48.1	96	90 - 110	7/24/01

ICV (1) QCBatch: QC12926

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	20	19.7	98	90 - 110	7/24/01
CL		mg/L	20	19.4	97	90 - 110	7/24/01
Fluoride		mg/L	10	9.95	99	90 - 110	7/24/01
Nitrite-N		mg/L	5	5.34	106	90 - 110	7/24/01
Nitrate-N		mg/L	5	4.65	93	90 - 110	7/24/01
Sulfate		mg/L	50	47.3	94	90 - 110	7/24/01

CCV (1) QCBatch: QC13181

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	20	18.3	91	90 - 110	7/26/01
CL		mg/L	20	19.5	97	90 - 110	7/26/01
Fluoride		mg/L	10	10.1	101	90 - 110	7/26/01
Nitrite-N		mg/L	5	5.45	109	90 - 110	7/26/01
Nitrate-N		mg/L	5	4.67	93	90 - 110	7/26/01
Sulfate		mg/L	50	47.8	95	90 - 110	7/26/01

ICV (1) QCBatch: QC13181

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	20	19.9	99	90 - 110	7/26/01
CL		mg/L	20	19.7	98	90 - 110	7/26/01
Fluoride		mg/L	10	9.98	99	90 - 110	7/26/01
Nitrite-N		mg/L	5	5.47	109	90 - 110	7/26/01
Nitrate-N		mg/L	5	4.67	93	90 - 110	7/26/01
Sulfate		mg/L	50	47.8	95	90 - 110	7/26/01

CCV (1) QCBatch: QC13182

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	20	18.4	92	90 - 110	7/25/01
CL		mg/L	20	19.8	99	90 - 110	7/25/01
Fluoride		mg/L	10	10.2	102	90 - 110	7/25/01
Nitrite-N		mg/L	5	5.46	109	90 - 110	7/25/01
Nitrate-N		mg/L	5	4.66	93	90 - 110	7/25/01
Sulfate		mg/L	50	48.3	96	90 - 110	7/25/01

ICV (1)

QCBatch: QC13182

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	20	20.0	100	90 - 110	7/25/01
CL		mg/L	20	19.7	98	90 - 110	7/25/01
Fluoride		mg/L	10	10.2	102	90 - 110	7/25/01
Nitrite-N		mg/L	5	5.39	107	90 - 110	7/25/01
Nitrate-N		mg/L	5	4.70	94	90 - 110	7/25/01
Sulfate		mg/L	50	47.9	95	90 - 110	7/25/01

Ammonia Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 24, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis: NH3 Analytical Method: SM 4500-NH3 B,E QC Batch: QC12959 Date Analyzed: 7/30/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB11093 Date Prepared: 7/27/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 175645 - 0154-DRW03-0701-QC

Analysis: NH3 Analytical Method: SM 4500-NH3 B,E QC Batch: QC12959 Date Analyzed: 7/30/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB11093 Date Prepared: 7/27/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 175647 - 0154-DRW04-0701

Analysis: NH3 Analytical Method: SM 4500-NH3 B,E QC Batch: QC12959 Date Analyzed: 7/30/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB11093 Date Prepared: 7/27/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 175649 - 0154-HCF05-0701

Analysis: NH3 Analytical Method: SM 4500-NH3 B,E QC Batch: QC12959 Date Analyzed: 7/30/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB11093 Date Prepared: 7/27/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 175651 - 0154-HCF05-0701-QC

Analysis: NH3 Analytical Method: SM 4500-NH3 B,E QC Batch: QC12959 Date Analyzed: 7/30/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB11093 Date Prepared: 7/27/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 175653 - 0154-HCF07-0701

Analysis: NH3 Analytical Method: SM 4500-NH3 B,E QC Batch: QC12959 Date Analyzed: 7/30/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB11093 Date Prepared: 7/27/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 175694 - 0154-DRW01-0701

Analysis: NH3 Analytical Method: SM 4500-NH3 B,E QC Batch: QC13014 Date Analyzed: 8/1/01
Analyst: JSW Preparation Method: N/A Prep Batch: PB11119 Date Prepared: 8/1/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 175696 - 0154-DRW02-0701

Analysis: NH3 Analytical Method: SM 4500 NH3 B,E QC Batch: QC13014 Date Analyzed: 8/1/01
Analyst: JSW Preparation Method: N/A Prep Batch: PB11119 Date Prepared: 8/1/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 175698 - 0154-DRW05-0701

Analysis: NH3 Analytical Method: SM 4500-NH3 B,E QC Batch: QC13014 Date Analyzed: 8/1/01
Analyst: JSW Preparation Method: N/A Prep Batch: PB11119 Date Prepared: 8/1/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 175700 - 0154-DRW12-0701

Analysis: NH3 Analytical Method: SM 4500-NH3 B,E QC Batch: QC13014 Date Analyzed: 8/1/01
Analyst: JSW Preparation Method: N/A Prep Batch: PB11119 Date Prepared: 8/1/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 175702 - 0154-DRW13-0701

Analysis: NH3 Analytical Method: SM 4500-NH3 B,E QC Batch: QC13014 Date Analyzed: 8/1/01
Analyst: JSW Preparation Method: N/A Prep Batch: PB11119 Date Prepared: 8/1/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 175854 - 0154-HCF01-0701

Analysis: NH3 Analytical Method: SM 4500-NH3 B,E QC Batch: QC13014 Date Analyzed: 8/1/01
Analyst: JSW Preparation Method: N/A Prep Batch: PB11119 Date Prepared: 8/1/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 175856 - 0154-DRW16-0701

Analysis: NH3 Analytical Method: SM 4500-NH3 B,E QC Batch: QC13014 Date Analyzed: 8/1/01
Analyst: JSW Preparation Method: N/A Prep Batch: PB11119 Date Prepared: 8/1/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Quality Control Report
Method Blank

Method Blank QCBatch: QC12959

Param	Flag	Results	Units	Reporting Limit
Ammonia-N		<2.0	mg/L	2

Method Blank QCBatch: QC13014

Param	Flag	Results	Units	Reporting Limit
Ammonia-N		<2.0	mg/L	2

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC12959

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Ammonia-N	4.59	4.70	mg/L	1	5	<2.0	91	2	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC13014

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Ammonia-N	4.42	4.37	mg/L	1	5	<2.0	88	1	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Matrix Spikes and Duplicate Spikes

Matrix Spikes QCBatch: QC12959

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Ammonia-N	4.76	4.70	mg/L	1	5	<2.0	95	1	34 - 174	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC13014

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Ammonia-N	4.42	4.82	mg/L	1	5	<2.0	88	8	34 - 174	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12959

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ammonia-N		mg/L	5	4.31	86	85 - 115	7/30/01

ICV (1) QCBatch: QC12959

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ammonia-N		mg/L	5	4.31	86	85 - 115	7/30/01

CCV (1) QCBatch: QC13014

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ammonia-N		mg/L	5	4.31	86	85 - 115	8/1/01

ICV (1) QCBatch: QC13014

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ammonia-N		mg/L	5	4.31	86	85 - 115	8/1/01

TKN Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 23, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC13206	Date Analyzed:	8/9/01
Analyst:	JSW	Preparation Method:	N/A	Prep Batch:	PB11283	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<4.0	mg/L	1	4

Sample: 175645 - 0154-DRW03-0701-QC

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC13206	Date Analyzed:	8/9/01
Analyst:	JSW	Preparation Method:	N/A	Prep Batch:	PB11283	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<4.0	mg/L	1	4

Sample: 175647 - 0154-DRW04-0701

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC13206	Date Analyzed:	8/9/01
Analyst:	JSW	Preparation Method:	N/A	Prep Batch:	PB11283	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<4.0	mg/L	1	4

Sample: 175649 - 0154-HCF05-0701

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC13206	Date Analyzed:	8/9/01
Analyst:	JSW	Preparation Method:	N/A	Prep Batch:	PB11283	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<4.0	mg/L	1	4

Sample: 175651 - 0154-HCF05-0701-QC

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC12960	Date Analyzed:	7/30/01
Analyst:	SSC	Preparation Method:	N/A	Prep Batch:	PB11094	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<4.0	mg/L	1	4

Sample: 175653 - 0154-HCF07-0701

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC13206	Date Analyzed:	8/9/01
Analyst:	JSW	Preparation Method:	N/A	Prep Batch:	PB11283	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<4.0	mg/L	1	4

Sample: 175694 - 0154-DRW01-0701

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC13206	Date Analyzed:	8/9/01
Analyst:	JSW	Preparation Method:	N/A	Prep Batch:	PB11283	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<4.0	mg/L	1	4

Sample: 175696 - 0154-DRW02-0701

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC13206	Date Analyzed:	8/9/01
Analyst:	JSW	Preparation Method:	N/A	Prep Batch:	PB11283	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<4.0	mg/L	1	4

Sample: 175698 - 0154-DRW05-0701

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC13206	Date Analyzed:	8/9/01
Analyst:	JSW	Preparation Method:	N/A	Prep Batch:	PB11283	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<4.0	mg/L	1	4

Sample: 175700 - 0154-DRW12-0701

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC13387	Date Analyzed:	8/15/01
Analyst:	JSW	Preparation Method:	N/A	Prep Batch:	PB11418	Date Prepared:	8/14/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<4.0	mg/L	1	4

Sample: 175702 - 0154-DRW13-0701

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC13387	Date Analyzed:	8/15/01
Analyst:	JSW	Preparation Method:	N/A	Prep Batch:	PB11418	Date Prepared:	8/14/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<4.0	mg/L	1	4

Sample: 175854 - 0154-HCF01-0701

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC13206	Date Analyzed:	8/9/01
Analyst:	JSW	Preparation Method:	N/A	Prep Batch:	PB11283	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<4.0	mg/L	1	4

Sample: 175856 - 0154-DRW16-0701

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC13206	Date Analyzed:	8/9/01
Analyst:	JSW	Preparation Method:	N/A	Prep Batch:	PB11283	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<4.0	mg/L	1	4

Quality Control Report
Method Blank

Method Blank QCBatch: QC12960

Param	Flag	Results	Units	Reporting Limit
Total Kjeldahl Nitrogen - N		<4.0	mg/L	4

Method Blank QCBatch: QC13206

Param	Flag	Results	Units	Reporting Limit
Total Kjeldahl Nitrogen - N		<4.0	mg/L	4

Method Blank QCBatch: QC13387

Param	Flag	Results	Units	Reporting Limit
Total Kjeldahl Nitrogen - N		<4.0	mg/L	4

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC12960

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Kjeldahl Nitrogen - N	45.64	45.08	mg/L	1	50	<4.0	91	1	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC13206

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Kjeldahl Nitrogen - N	47.04	48.44	mg/L	1	50	<4.0	94	2	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC13387

Continued . . .

... Continued

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Kjeldahl Nitrogen - N	47.0	47.9	mg/L	1	50	<4.0	94	1	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Matrix Spikes and Duplicate Spikes

Matrix Spikes QCBatch: QC12960

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Kjeldahl Nitrogen - N	44.52	43.4	mg/L	1	50	<4.0	89	2	40 - 129	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC13206

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Kjeldahl Nitrogen - N	[1] 33.6	[2] 26.9	mg/L	1	50	<4.0	67	22	40 - 129	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC13387

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Kjeldahl Nitrogen - N	49.8	[3] 22.96	mg/L	1	50	<4.0	99	73	40 - 129	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12960

[1] low due to matrix difficulties
[2] low due to matrix difficulties
[3] low due to matrix difficulties

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		mg/L	5	4.48	89	85 - 115	7/30/01

ICV (1) QCBatch: QC12960

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		mg/L	5	4.816	96	85 - 115	7/30/01

CCV (1) QCBatch: QC13206

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		mg/L	5	4.26	85	85 - 115	8/9/01

ICV (1) QCBatch: QC13206

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		mg/L	5	4.23	85	85 - 115	8/9/01

CCV (1) QCBatch: QC13387

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		mg/L	5	4.76	95	85 - 115	8/15/01

ICV (1) QCBatch: QC13387

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		mg/L	5	4.98	99	85 - 115	8/15/01

Hexavalent Chromium Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: August 23, 2001

Order ID Number: A01072401

Project Number: 800 HH
Project Name: Groundwater Sampling @ HELSTF Diesel Spill
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175643	0154-DRW03-0701	Water	7/23/01	10:59	7/23/01
175645	0154-DRW03-0701-QC	Water	7/23/01	10:59	7/23/01
175647	0154-DRW04-0701	Water	7/23/01	13:04	7/23/01
175649	0154-HCF05-0701	Water	7/23/01	13:17	7/23/01
175651	0154-HCF05-0701-QC	Water	7/23/01	13:17	7/23/01
175653	0154-HCF07-0701	Water	7/23/01	:	7/23/01
175694	0154-DRW01-0701	Water	7/24/01	11:00	7/24/01
175696	0154-DRW02-0701	Water	7/24/01	14:28	7/24/01
175698	0154-DRW05-0701	Water	7/24/01	11:05	7/24/01
175700	0154-DRW12-0701	Water	7/24/01	13:46	7/24/01
175702	0154-DRW13-0701	Water	7/24/01	11:28	7/24/01
175854	0154-HCF01-0701	Water	7/25/01	13:05	7/25/01
175856	0154-DRW16-0701	Water	7/25/01	12:21	7/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 175643 - 0154-DRW03-0701

Analysis: CR+6 (El Paso) Analytical Method: SM 3500-Cr D QC Batch: QC12894 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11034 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 175645 - 0154-DRW03-0701-QC

Analysis: CR+6 (El Paso) Analytical Method: SM 3500-Cr D QC Batch: QC12894 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11034 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 175647 - 0154-DRW04-0701

Analysis: CR+6 (El Paso) Analytical Method: SM 3500-Cr D QC Batch: QC12894 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11034 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 175649 - 0154-HCF05-0701

Analysis: CR+6 (El Paso) Analytical Method: SM 3500-Cr D QC Batch: QC12894 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11034 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 175651 - 0154-HCF05-0701-QC

Analysis: CR+6 (El Paso) Analytical Method: SM 3500-Cr D QC Batch: QC12894 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11034 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 175653 - 0154-HCF07-0701

Analysis: CR+6 (El Paso) Analytical Method: SM 3500-Cr D QC Batch: QC12894 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11034 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 175694 - 0154-DRW01-0701

Analysis: CR+6 (El Paso) Analytical Method: SM 3500-Cr D QC Batch: QC12939 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11068 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 175696 - 0154-DRW02-0701

Analysis: CR+6 (El Paso) Analytical Method: SM 3500-Cr D QC Batch: QC12939 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11068 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 175698 - 0154-DRW05-0701

Analysis: CR+6 (El Paso) Analytical Method: SM 3500-Cr D QC Batch: QC12939 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11068 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 175700 - 0154-DRW12-0701

Analysis: CR+6 (El Paso) Analytical Method: SM 3500-Cr D QC Batch: QC12939 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11068 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 175702 - 0154-DRW13-0701

Analysis: CR+6 (El Paso) Analytical Method: SM 3500-Cr D QC Batch: QC12939 Date Analyzed: 7/24/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11068 Date Prepared: 7/24/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 175854 - 0154-HCF01-0701

Analysis: CR+6 (El Paso) Analytical Method: SM 3500-Cr D QC Batch: QC13169 Date Analyzed: 7/26/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11256 Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 175856 - 0154-DRW16-0701

Analysis: CR+6 (El Paso) Analytical Method: SM 3500-Cr D QC Batch: QC13169 Date Analyzed: 7/26/01
Analyst: DG Preparation Method: N/A Prep Batch: PB11256 Date Prepared: 7/26/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Quality Control Report
Method Blank

Method Blank QCBatch: QC12894

Param	Flag	Results	Units	Reporting Limit
Hexavalent Chromium		<0.05	mg/L	0.05

Method Blank QCBatch: QC12939

Param	Flag	Results	Units	Reporting Limit
Hexavalent Chromium		<0.05	mg/L	0.05

Method Blank QCBatch: QC13169

Param	Flag	Results	Units	Reporting Limit
Hexavalent Chromium		<0.05	mg/L	0.05

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC12894

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Hexavalent Chromium	0.537	0.538	mg/L	1	0.50	<0.05	107	0	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC12939

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Hexavalent Chromium	0.530	0.528	mg/L	1	0.50	<0.05	106	0	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC13169

Continued . . .

... Continued

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Hexavalent Chromium	0.508	0.507	mg/L	1	0.50	<0.05	101	0	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Matrix Spikes and Duplicate Spikes

Matrix Spikes QCBatch: QC12894

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Hexavalent Chromium	0.494	0.492	mg/L	1	0.50	<0.05	98	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC12939

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Hexavalent Chromium	0.529	0.528	mg/L	1	0.50	<0.05	105	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC13169

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Hexavalent Chromium	0.511	0.510	mg/L	1	0.50	<0.05	102	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12894

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.50	0.546	109	85 - 115	7/24/01

ICV (1) QCBatch: QC12894

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.50	0.538	107	85 - 115	7/24/01

CCV (1) QCBatch: QC12939

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.50	0.529	105	85 - 115	7/24/01

ICV (1) QCBatch: QC12939

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.50	0.530	106	85 - 115	7/24/01

CCV (1) QCBatch: QC13169

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.50	0.510	102	85 - 115	7/26/01

ICV (1) QCBatch: QC13169

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.50	0.511	102	85 - 115	7/26/01

Subbed Analysis Results and Quality Control
Ammonium Perchlorate

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565
TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Attn: Nel Green

Report Date: *13-Aug-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Our Lab #: 073001008
Date Logged-In: 7/30/01
Matrix: Water
Project #: GW Diesel Spill

Your Sample ID: 0154-DRW03-0701-175643
Sample Source: Groundwater Monitoring
Client Project #: HEISTF **PO#:** 800HH/073008
Date Submitted to Lab: 7/30/2001

- COLLECTION INFORMATION -

Date/Time/By: 7/23/01 10:59 AM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 41.3	ug/L	8/9/01	JMN	3085

Note: Sample diluted 7X due to background conductivity

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 8/13/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
3085	073001010M	PER	M	258	ug/L	295.325	87 %R: *	11 %RPD	0	
3085	073001010S	PER	S	287	ug/L	295.325	97 %R: *		0	
3085	Blank	PER	B	0.00	ug/L	0				
3085	Calib Check	PER	K	110	ug/L	100	110 %R: *		0	
3085	Calib Check	PER	K	20.4	ug/L	20	102 %R: *		0	
3085	Calib Check	PER	K	21.1	ug/L	20	106 %R: *		0	
3085	Calib Check	PER	K	6.03	ug/L	5	121 %R: *		0	
3085	Control	PER	C	24.4	ug/L	25	98 %R: *		0	
3085	LCS	PER	C	24.2	ug/L	25	97 %R: *		0	

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565
TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Attn: Nel Green

Report Date: *13-Aug-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Our Lab #: 073001009
Date Logged-In: 7/30/01
Matrix: Water
Project #: GW Diesel Spill

Your Sample ID: 0154-DRW03-0701-QC-175645
Sample Source: Groundwater Monitoring
Client Project #: HEISTF **PO#:** 800HH/073008
Date Submitted to Lab: 7/30/2001

- COLLECTION INFORMATION -

Date/Time/By: 7/23/01 10:59 AM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 41.3	ug/L	8/9/01	JMN	3085

Note: Sample diluted 7X due to background conductivity

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 8/13/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
3085	073001010M	PER	M	258	ug/L	295.325	87 %R: *	11 %RPD	0	
3085	073001010S	PER	S	287	ug/L	295.325	97 %R: *		0	
3085	Blank	PER	B	0.00	ug/L	0				
3085	Calib Check	PER	K	110	ug/L	100	110 %R: *		0	
3085	Calib Check	PER	K	20.4	ug/L	20	102 %R: *		0	
3085	Calib Check	PER	K	21.1	ug/L	20	106 %R: *		0	
3085	Calib Check	PER	K	6.03	ug/L	5	121 %R: *		0	
3085	Control	PER	C	24.4	ug/L	25	98 %R: *		0	
3085	LCS	PER	C	24.2	ug/L	25	97 %R: *		0	

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565
TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Attn: Nel Green

Report Date: *13-Aug-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Our Lab #: 073001010
Date Logged-In: 7/30/01
Matrix: Water
Project #: GW Diesel Spill

Your Sample ID: 0154-DRW04-0701-175647
Sample Source: Groundwater Monitoring
Client Project #: HEISTF **PO#:** 800HH/073008
Date Submitted to Lab: 7/30/2001

- COLLECTION INFORMATION -

Date/Time/By: 7/23/01 1:04 PM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 59.1	ug/L	8/9/01	JMN	3085

Note: Sample diluted 10X due to background conductivity

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 8/13/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
3085	073001010M	PER	M	258	ug/L	295.325	87 %R: *	11 %RPD	0	
3085	073001010S	PER	S	287	ug/L	295.325	97 %R: *		0	
3085	Blank	PER	B	0.00	ug/L	0				
3085	Calib Check	PER	K	110	ug/L	100	110 %R: *		0	
3085	Calib Check	PER	K	20.4	ug/L	20	102 %R: *		0	
3085	Calib Check	PER	K	21.1	ug/L	20	106 %R: *		0	
3085	Calib Check	PER	K	6.03	ug/L	5	121 %R: *		0	
3085	Control	PER	C	24.4	ug/L	25	98 %R: *		0	
3085	LCS	PER	C	24.2	ug/L	25	97 %R: *		0	

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565

TraccAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Attn: Nel Green

Report Date: *13-Aug-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Our Lab #: 073001011
Date Logged-In: 7/30/01
Matrix: Water
Project #: GW Diesel Spill

Your Sample ID: 0154-HCF05-0701-175649
Sample Source: Groundwater Monitoring
Client Project #: HEISTF **PO#:** 800HH/073008
Date Submitted to Lab: 7/30/2001

- COLLECTION INFORMATION -

Date/Time/By: 7/23/01 1:17 PM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 59.1	ug/L	8/9/01	JMN	3085

Note: Sample diluted 10X due to background conductivity

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 8/13/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
3085	073001010M	PER	M	258	ug/L	295.325	87 %R: *	11 %RPD	0	
3085	073001010S	PER	S	287	ug/L	295.325	97 %R: *		0	
3085	Blank	PER	B	0.00	ug/L	0				
3085	Calib Check	PER	K	110	ug/L	100	110 %R: *		0	
3085	Calib Check	PER	K	20.4	ug/L	20	102 %R: *		0	
3085	Calib Check	PER	K	21.1	ug/L	20	106 %R: *		0	
3085	Calib Check	PER	K	6.03	ug/L	5	121 %R: *		0	
3085	Control	PER	C	24.4	ug/L	25	98 %R: *		0	
3085	LCS	PER	C	24.2	ug/L	25	97 %R: *		0	

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565
TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-
Attn: Nel Green

Report Date: *13-Aug-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Our Lab #: 073001012
Date Logged-In: 7/30/01
Matrix: Water
Project #: GW Diesel Spill

Your Sample ID: 0154-HCF05-0701-QC-175651
Sample Source: Groundwater Monitoring
Client Project #: HEISTF **PO#:** 800HH/073008
Date Submitted to Lab: 7/30/2001

- COLLECTION INFORMATION -

Date/Time/By: 7/23/01 1:17 PM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4ClO4	314.0	Ammonium Perchlorate, aq	< 59.1	ug/L	8/9/01	JMN	3085

Note: Sample diluted 10X due to background conductivity

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 8/13/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
3085	073001010M	PER	M	258	ug/L	295.325	87 %R: *	11 %RPD	0	
3085	073001010S	PER	S	287	ug/L	295.325	97 %R: *		0	
3085	Blank	PER	B	0.00	ug/L	0				
3085	Calib Check	PER	K	110	ug/L	100	110 %R: *		0	
3085	Calib Check	PER	K	20.4	ug/L	20	102 %R: *		0	
3085	Calib Check	PER	K	21.1	ug/L	20	106 %R: *		0	
3085	Calib Check	PER	K	6.03	ug/L	5	121 %R: *		0	
3085	Control	PER	C	24.4	ug/L	25	98 %R: *		0	
3085	LCS	PER	C	24.2	ug/L	25	97 %R: *		0	

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565 **Report Date:** *13-Aug-01*

TraccAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Phone: (800) 378-1296 **Ext:**

Attn: Nel Green **FAX:** (806) 794-1298

Our Lab #: 073001013 **Your Sample ID:** 0154-HCF07-0701-175653
Date Logged-In: 7/30/01 **Sample Source:** Groundwater Monitoring
Matrix: Water **Client Project #:** HEISTF **PO#:** 800HH/073008
Project #: GW Diesel Spill **Date Submitted to Lab:** 7/30/2001

- COLLECTION INFORMATION -

Date/Time/By: 7/23/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 59.1	ug/L	8/9/01	JMN	3085

Note: Sample diluted 10X due to background conductivity

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 8/13/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
3085	073001010M	PER	M	258	ug/L	295.325	87 %R: *	11 %RPD	0	
3085	073001010S	PER	S	287	ug/L	295.325	97 %R: *		0	
3085	Blank	PER	B	0.00	ug/L	0				
3085	Calib Check	PER	K	110	ug/L	100	110 %R: *		0	
3085	Calib Check	PER	K	20.4	ug/L	20	102 %R: *		0	
3085	Calib Check	PER	K	21.1	ug/L	20	106 %R: *		0	
3085	Calib Check	PER	K	6.03	ug/L	5	121 %R: *		0	
3085	Control	PER	C	24.4	ug/L	25	98 %R: *		0	
3085	LCS	PER	C	24.2	ug/L	25	97 %R: *		0	

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565
TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-
Attn: Nel Green

Report Date: *20-Aug-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Our Lab #: 073001003
Date Logged-In: 7/30/01
Matrix: Water
Project #: GW Diesel Spill

Your Sample ID: 0154-DRW01-0701-175694
Sample Source: Groundwater Monitoring
Client Project #: HEISTF **PO#:** 800HH/073003
Date Submitted to Lab: 7/30/2001

- COLLECTION INFORMATION -

Date/Time/By: 7/24/01 11:00 AM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 23.6	ug/L	8/3/01	JMN	3079
	Note:	Sample diluted 4X due to background conductivity REPRINT 8/20/01					

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 8/20/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
3079	072601006M	PER	M	26.9	ug/L	25	94 %R: *	3 %RPD	0	
3079	072601006S	PER	S	27.8	ug/L	25	98 %R: *		0	
3079	Blank	PER	B	0.00	ug/L	0				
3079	Calib Check	PER	K	110	ug/L	100	110 %R: *		0	
3079	Calib Check	PER	K	18.6	ug/L	20	93 %R: *		0	
3079	Calib Check	PER	K	20.0	ug/L	20	100 %R: *		0	
3079	Calib Check	PER	K	5.58	ug/L	5	112 %R: *		0	
3079	Control	PER	C	24.7	ug/L	25	99 %R: *		0	
3079	LCS	PER	C	21.8	ug/L	25	87 %R: *		0	

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565
TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Attn: Nel Green

Report Date: *20-Aug-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Our Lab #: 073001004
Date Logged-In: 7/30/01
Matrix: Water
Project #: GW Diesel Spill

Your Sample ID: 0154-DRW02-0701-175696
Sample Source: Groundwater Monitoring
Client Project #: HEISTF **PO#:** 800HH/073003
Date Submitted to Lab: 7/30/2001

- COLLECTION INFORMATION -

Date/Time/By: 7/24/01 2:28 PM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 23.6	ug/L	8/3/01	JMN	3079

Note: Sample diluted 4X due to background conductivity
REPRINT 8/20/01

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 8/20/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
3079	072601006M	PER	M	26.9	ug/L	25	94 %R: *	3 %RPD	0	
3079	072601006S	PER	S	27.8	ug/L	25	98 %R: *		0	
3079	Blank	PER	B	0.00	ug/L	0				
3079	Calib Check	PER	K	110	ug/L	100	110 %R: *		0	
3079	Calib Check	PER	K	18.6	ug/L	20	93 %R: *		0	
3079	Calib Check	PER	K	20.0	ug/L	20	100 %R: *		0	
3079	Calib Check	PER	K	5.58	ug/L	5	112 %R: *		0	
3079	Control	PER	C	24.7	ug/L	25	99 %R: *		0	
3079	LCS	PER	C	21.8	ug/L	25	87 %R: *		0	

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565

TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Attn: Nel Green

Report Date: *20-Aug-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Our Lab #: 073001005
Date Logged-In: 7/30/01
Matrix: Water
Project #: GW Diesel Spill

Your Sample ID: 0154-DRW05-0701-175698
Sample Source: Groundwater Monitoring
Client Project #: HEISTF **PO#:** 800HH/073003
Date Submitted to Lab: 7/30/2001

- COLLECTION INFORMATION -

Date/Time/By: 7/24/01 11:05 AM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 23.6	ug/L	8/3/01	JMN	3079

Note: Sample diluted 12X due to background conductivity
REPRINT 8/20/01

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 8/20/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
3079	072601006M	PER	M	26.9	ug/L	25	94 %R: *	3 %RPD	0	
3079	072601006S	PER	S	27.8	ug/L	25	98 %R: *		0	
3079	Blank	PER	B	0.00	ug/L	0				
3079	Calib Check	PER	K	110	ug/L	100	110 %R: *		0	
3079	Calib Check	PER	K	18.6	ug/L	20	93 %R: *		0	
3079	Calib Check	PER	K	20.0	ug/L	20	100 %R: *		0	
3079	Calib Check	PER	K	5.58	ug/L	5	112 %R: *		0	
3079	Control	PER	C	24.7	ug/L	25	99 %R: *		0	
3079	LCS	PER	C	21.8	ug/L	25	87 %R: *		0	

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565
TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Report Date: *20-Aug-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nel Green

Our Lab #: 073001006
Date Logged-In: 7/30/01
Matrix: Water
Project #: GW Diesel Spill

Your Sample ID: 0154-DRW12-0701-175700
Sample Source: Groundwater Monitoring
Client Project #: HEISTF **PO#:** 800HH/073003
Date Submitted to Lab: 7/30/2001

- COLLECTION INFORMATION -

Date/Time/By: 7/24/01 1:46 PM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 70.9	ug/L	8/3/01	JMN	3079

Note: Sample diluted 4X due to background conductivity
REPRINT 8/20/01

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 8/20/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
3079	072601006M	PER	M	26.9	ug/L	25	94 %R: *	3 %RPD	0	
3079	072601006S	PER	S	27.8	ug/L	25	98 %R: *		0	
3079	Blank	PER	B	0.00	ug/L	0				
3079	Calib Check	PER	K	110	ug/L	100	110 %R: *		0	
3079	Calib Check	PER	K	18.6	ug/L	20	93 %R: *		0	
3079	Calib Check	PER	K	20.0	ug/L	20	100 %R: *		0	
3079	Calib Check	PER	K	5.58	ug/L	5	112 %R: *		0	
3079	Control	PER	C	24.7	ug/L	25	99 %R: *		0	
3079	LCS	PER	C	21.8	ug/L	25	87 %R: *		0	

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565 **Report Date:** *20-Aug-01*

TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Phone: (800) 378-1296 **Ext:**

Attn: Nel Green **FAX:** (806) 794-1298

Our Lab #: 073001007 **Your Sample ID:** 0154-DR131-0701-175702
Date Logged-In: 7/30/01 **Sample Source:** Groundwater Monitoring
Matrix: Water **Client Project #:** HEISTF **PO#:** 800HH/073003
Project #: GW Diesel Spill **Date Submitted to Lab:** 7/30/2001

- COLLECTION INFORMATION -

Date/Time/By: 7/24/01 11:28 AM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 23.6	ug/L	8/3/01	JMN	3079

Note: Sample diluted 4X due to background conductivity
REPRINT 8/20/01

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 8/20/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
3079	072601006M	PER	M	26.9	ug/L	25	94 %R: *	3 %RPD	0	
3079	072601006S	PER	S	27.8	ug/L	25	98 %R: *		0	
3079	Blank	PER	B	0.00	ug/L	0				
3079	Calib Check	PER	K	110	ug/L	100	110 %R: *		0	
3079	Calib Check	PER	K	18.6	ug/L	20	93 %R: *		0	
3079	Calib Check	PER	K	20.0	ug/L	20	100 %R: *		0	
3079	Calib Check	PER	K	5.58	ug/L	5	112 %R: *		0	
3079	Control	PER	C	24.7	ug/L	25	99 %R: *		0	
3079	LCS	PER	C	21.8	ug/L	25	87 %R: *		0	

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565
TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Attn: Nel Green

Report Date: *17-Aug-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Our Lab #: 080301011
Date Logged-In: 8/3/01
Matrix: Water
Project #: GW-Diesel Spill

Your Sample ID: 0154-HCF01-0701-175854
Sample Source: Groundwater Monitoring
Client Project #:
PO#: 800HH/080310
Date Submitted to Lab: 8/3/2001

- COLLECTION INFORMATION -

Date/Time/By: 7/25/01 1:05 PM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 118	ug/L	8/13/01	JMN	3089

Note: Sample diluted 20X due to background conductivity

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 8/17/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
3089	080301009M	PER	M	25.5	ug/L	25	102 %R: *	3 %RPD	0	
3089	080301009S	PER	S	24.7	ug/L	25	99 %R: *		0	
3089	Blank	PER	B	0.00	ug/L	0				
3089	Calib Check	PER	K	108	ug/L	100	108 %R: *		0	
3089	Calib Check	PER	K	20.6	ug/L	20	103 %R: *		0	
3089	Calib Check	PER	K	20.7	ug/L	20	104 %R: *		0	
3089	Calib Check	PER	K	21.5	ug/L	20	108 %R: *		0	
3089	Calib Check	PER	K	5.94	ug/L	5	119 %R: *		0	
3089	Control	PER	C	26.5	ug/L	25	106 %R: *		0	
3089	LCS	PER	C	22.1	ug/L	25	88 %R: *		0	

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565 **Report Date:** *17-Aug-01*

TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Phone: (800) 378-1296 **Ext:**

Attn: Nel Green **FAX:** (806) 794-1298

Our Lab #: 080301010 **Your Sample ID:** 0154-DRW16-0701-175856
Date Logged-In: 8/3/01 **Sample Source:** Groundwater Monitoring
Matrix: Water **Client Project #:** **PO#:** 800HH/080310
Project #: GW-Diesel Spill **Date Submitted to Lab:** 8/3/2001

- COLLECTION INFORMATION -

Date/Time/By: 7/25/01 12:21 PM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 118	ug/L	8/13/01	JMN	3089

Note: Sample diluted 20X due to background conductivity

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

ATEL

Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 8/17/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
3089	080301009M	PER	M	25.5	ug/L	25	102 %R: *	3 %RPD	0	
3089	080301009S	PER	S	24.7	ug/L	25	99 %R: *		0	
3089	Blank	PER	B	0.00	ug/L	0				
3089	Calib Check	PER	K	108	ug/L	100	108 %R: *		0	
3089	Calib Check	PER	K	20.6	ug/L	20	103 %R: *		0	
3089	Calib Check	PER	K	20.7	ug/L	20	104 %R: *		0	
3089	Calib Check	PER	K	21.5	ug/L	20	108 %R: *		0	
3089	Calib Check	PER	K	5.94	ug/L	5	119 %R: *		0	
3089	Control	PER	C	26.5	ug/L	25	106 %R: *		0	
3089	LCS	PER	C	22.1	ug/L	25	88 %R: *		0	

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
PHONE 520-573-6565 • 1-800-879-2835 • FAX 520-573-6550

A01072401

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT NO.: 800 HH

PROJECT NAME: GROUNDWATER SAMPLING @ HELSTF DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA (NH_3 + NH_4)	TOTAL PHOSPHORUS	DISS IONS	DISS METALS	REMARKS
7-23-01	1059	0154-DRW03-0701	WATER	175643	19	✓	✓	✓	✓	
		~~0154-DRW03-0701 TB~~	~~WATER~~							
						H_2SO_4	H_2SO_4 4°C	HNO_3		

PROJECT INFORMATION	SAMPLES RECEIVED		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	TOTAL NO. OF CONTAINERS		(PRINTED NAME) GABRIEL GARCIA	(PRINTED NAME) L. Guerra	(PRINTED NAME) Vicki Henstey
SHIPPING ID. NO.: UPS 1Z312 4XW 01 4360 0040 40	CHAIN OF CUSTODY SEALS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace Analysis
VIA: LAB COURIER	GOOD CONDITION/CHILLED		(TIME / DATE) 7-23 1628	(TIME / DATE)	(TIME / DATE) 10:00 AM 7-25-01
	CONFORMS TO RECORD	MA	SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072402

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.: 800 HH
PROJECT NAME: GROUNDWATER SAMPLING @ HELSTF DIESEL SPILL
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOCs	TPH MOD DRO	TOC	SVOC	EXPLOSIVES	WATER QUAL.	TOTAL METALS 6+	CHROMIUM AMMONIA PERCHLORATE	TKN	REMARKS
7-23-01	1059	0154-DRW03-0701-QC	WATER	175645	19	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7-23-01	1059	0154-DRW03-0701-QC-TB	WATER	175646	2	✓									
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	HNO_3	4°C	4°C	H_2SO_4

PROJECT INFORMATION		
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED	
SHIPPING ID. NO.: UPS 1Z 312 4XW 01 43100 0040 40	TOTAL NO. OF CONTAINERS	
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS	
	GOOD CONDITION/CHILLED	
	CONFORMS TO RECORD	NA

1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
(PRINTED NAME): GABRIEL GARCIA	(PRINTED NAME): L. GUEVARA	(PRINTED NAME): Vicki Hansley
RECEIVED BY:	RECEIVED BY:	(COMPANY): Pace Analysis
(TIME / DATE): 1630 7-23-01	(TIME / DATE):	(TIME / DATE): 10:00 AM 7/25/01

SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072402

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PROJECT NO.: 800 HH

PROJECT NAME: GROUNDWATER SAMPLING @ HELSTF DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA (NH_3 + NH_4)	TOTAL PHOSPHORUS	DISS IONS	DISS METALS	REMARKS
7-23-01	1059	0154-DRW03-01-QC	WATER	175645	19	✓	✓	✓	✓	
		0154-DRW03-0201-QC-TB	WATER							
						H_2SO_4	H_2SO_4 4°C	HNO_3		

PROJECT INFORMATION		
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED	
SHIPPING ID. NO.: UPS 1Z 312 4XW01 4360 0040 4°	TOTAL NO. OF CONTAINERS	
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS	
	GOOD CONDITION/CHILLED	
	CONFORMS TO RECORD	NW

1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
(PRINTED NAME) ABREEL GARCIA	(PRINTED NAME) L Guerra	(PRINTED NAME) Vicki Hensley
RECEIVED BY:	RECEIVED BY:	(COMPANY) Peace Analysis
(TIME / DATE) 1630 7-23-01	(TIME / DATE)	(TIME / DATE) 10:00 7-25-01

SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072403

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.: 800 HH
PROJECT NAME: GROUNDWATER SAMPLING HELSTF DIESEL SPILL
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC's	TPH MOD DRO	TOC	SVOC	EXPLOSIVES	WATER QUAL.	TOTAL METALS	AMMONIUM PERCHLORATE	TKN	REMARKS
7-23-01	1304	0154-DRW04-0701	WATER	175647	19	✓	✓	—	—	—	—	—	—	—	
7-23-01	1304	0154-DRW04-0701-TB	WATER	175648	2	✓									
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	HNO_3	4°C	4°C	H_2SO_4

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED		(PRINTED NAME) GABRIEL GARCIA	(PRINTED NAME) L. Guerra	(PRINTED NAME) Vicki Hinsley
SHIPPING ID. NO.: UPS 1Z312 4X W01 4300 0040 40	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Pace Analysis
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS		(TIME / DATE) 1628 7-23-01	(TIME / DATE)	(TIME / DATE) 10:00 A 7-25-01
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.		
	CONFORMS TO RECORD	NA			

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A 01072403

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT NO.: 800 HH

PROJECT NAME: GROUND WATER SAMPLING @ HELSTF DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA (NH_3 + NH_4)	TOTAL PHOSPHOROUS	DISS. TOTAL	DISS. METALS	REMARKS
7-23-01	1304	0154-DRW04-01	WATER	175647	19	✓	✓	✓	✓	
		~~0154-DRW04-01-TB~~	~~WATER~~							

H_2SO_4 | H_2SO_4 | 4°C | HNO_3

PROJECT INFORMATION		
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED	
SHIPPING ID. NO.: UPS 123124KW01 43100 RD40 40	TOTAL NO. OF CONTAINERS	
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS	
	GOOD CONDITION/CHILLED	
	CONFORMS TO RECORD	NA

1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
(PRINTED NAME) SARGEL GARCIA	(PRINTED NAME) Guerra	(PRINTED NAME) Vicki Hensley
RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace Analysis
(TIME / DATE) 1628 7-23-01	(TIME / DATE)	(TIME / DATE) 10:00am 7-25-01

SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072404

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.: 800 HA
PROJECT NAME: GROUNDWATER SAMPLING @ HELSTE DIESEL SPILL
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOCs	MOD TPH DRO	TOC	SVOC	EXPLOSIVES	WATER QUAL	TOTAL METALS 6+	CALCIUM AMMONIA PERCHLORATE	TKN	REMARKS
7-23-01	1317	0154-HCF05-0701	WATER	175649	19	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7-23-01	1317	0154-HCF05-0701-TB	WATER	175650	2	✓									
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	HNO_3	4°C	4°C	H_2SO_4

PROJECT INFORMATION		
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED	
SHIPPING ID. NO.: UPS 1Z 312 4XW 01 4360 0040 30	TOTAL NO. OF CONTAINERS	
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS	
	GOOD CONDITION/CHILLED	
	CONFORMS TO RECORD	NA

1. RELINQUISHED BY: (SIGNATURE) Juan Rodriguez
(PRINTED NAME)
RECEIVED BY: Dolores Gi
(TIME / DATE) 1628 7-23-01

2. RELINQUISHED BY: (SIGNATURE) Karen Dunn
(PRINTED NAME) L. Guerra
RECEIVED BY:
(TIME / DATE)

3. RECEIVED BY LABORATORY: (SIGNATURE) Vicki Hensley
(PRINTED NAME) Vicki Hensley
(COMPANY) Teace Analysis
(TIME / DATE) 10:00 AM 7-25-01

SPECIAL INSTRUCTIONS / COMMENTS:
PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072404

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PROJECT NO.: 800 H.H
PROJECT NAME: GROUNDWATER SAMPLING @ HELSTF DIESEL SPILL
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA	NO_3 + NO_2	TOTAL PHOSPHORUS	DISS. IONS	DISS. METALS	REMARKS
7-23-01	1317	0154-HCF05-0701	WATER	175649	19	✓	—	—	—		
		~~0154-HCF05-01-TB~~	~~WATER~~								
						H_2SO_4	H_2SO_4	4°C	HNO_3		

PROJECT INFORMATION		
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED	
SHIPPING ID. NO.: UPS 1Z 312 4X W0 4300 0010 40	TOTAL NO. OF CONTAINERS	
	CHAIN OF CUSTODY SEALS	
	GOOD CONDITION/CHILLED	
VIA: LAB COURIER	CONFORMS TO RECORD	MA

1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
(PRINTED NAME) Susan Rodriguez	(PRINTED NAME) L. Guerra	(PRINTED NAME) Vicki Hinsley
RECEIVED BY:	RECEIVED BY:	(COMPANY) Pace Analysis
(TIME / DATE) 1628 7-23-01	(TIME / DATE)	(TIME / DATE) 10:00am 7-25-01

SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072405

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.: 800HH
PROJECT NAME: GROUNDWATER SAMPLING @ HCFSTF DIESEL SPILL
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC's	TPH 418.1	TOC	SVOC	EXPLOSIVES	WATER QUAL.	TOTAL METALS 6F	CHROMIUM	AMMONIA	PERCHLORATE	TKN	REMARKS
7-23-01	1317	0154-HCF05-0701-QC	WATER	175651	19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7-23-01	1317	0154-HCF05-0701-QC-TB	WATER	175652	2	X											
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	HNO_3	4°C	4°C	H_2SO_4		

PROJECT INFORMATION		
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED	
	TOTAL NO. OF CONTAINERS	
SHIPPING ID. NO.: UPS 1Z312 4XW01 4300 0040 4°	CHAIN OF CUSTODY SEALS	
	GOOD CONDITION/CHILLED	
VIA: LAB COURIER	CONFORMS TO RECORD	NA

1. RELINQUISHED BY: (SIGNATURE)
(PRINTED NAME) Jim Frank Rodriguez
RECEIVED BY:
(TIME / DATE) 1623 7-23-01

2. RELINQUISHED BY: (SIGNATURE)
(PRINTED NAME) L. Guerra
RECEIVED BY:
(TIME / DATE)

3. RECEIVED BY LABORATORY: (SIGNATURE) Vicki Hensley
(PRINTED NAME) Vicki Hensley
(COMPANY) Pace Analysis
(TIME / DATE) 10:00 AM 7-25-01

SPECIAL INSTRUCTIONS / COMMENTS:
PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072405

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT NO.: 800 HH

PROJECT NAME: GROUNDWATER SAMPLING @ HELSTF DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA (NH_3 + NH_4)	TOTAL PHOSPHORUS	DISS. IONS	DISS. METALS							REMARKS
7-23-01	1317	0154-HCF05-01-QC	WATER	175651	19	✓	✓	—	✓							
		~~0154-HCF05-01-QC-TB~~	~~WATER~~													
						H_2SO_4	H_2SO_4	4°C	HNO_3							

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED		(PRINTED NAME) Frank Rodriguez	(PRINTED NAME) L. Guerra	(PRINTED NAME) Vicki Hensley
SHIPPING ID. NO.: UPS 1Z 3124X(W01 4310D 0040 40	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) TRACE Analysis
	CHAIN OF CUSTODY SEALS		(TIME / DATE) 1630 7-23-01	(TIME / DATE)	(TIME / DATE) 10:00 m 7-25-01
VIA: LAB COURIER	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS:		
	CONFORMS TO RECORD	NA	PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072406

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.: 800 HH
PROJECT NAME: GROUNDWATER SAMPLING @ HELSTF DIESEL SPILL
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC's	TPH 418.1	MOD DRO	TOC	SVOC	EXPLOSIVES	WATER QUA.	TOTAL METALS 6-4	AMMONIUM AMMONIA	PERCHLORATE	TKN	REMARKS
7/23/01		0154-HCF07-0701	WATER	175653	19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7/23/01		0154-HCF07-0701-TB	WATER	175654	2	✓											
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	HNO_3	4°C	4°C	H_2SO_4		

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED		(PRINTED NAME)	(PRINTED NAME) L Guerra	(PRINTED NAME) Vicki Hensley
SHIPPING ID. NO.: UPS 1Z 312 4XW 01 4310D 0040 4/0	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Pace Analysis
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS		(TIME / DATE) 1630 7-23-01	(TIME / DATE)	(TIME / DATE) 10:00AM 7-25-01
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS:		
	CONFORMS TO RECORD	NA	PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A010 72406

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT NO.: 800 HH

PROJECT NAME: GROUNDWATER SAMPLING @ HELSTF DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA	NH_3 + NH_4	TOTAL PHOSPHORUS	DISS. S. IONS	DISS. METALS	REMARKS
7/23/01		0154-HCF0707 01	WATER	175653	19						
		~~0154-HCF07- 01-TB~~	~~WATER~~								
						H_2SO_4	H_2SO_4 4°C	HNO_3			

PROJECT INFORMATION		
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED	
SHIPPING ID. NO.: UPS 1Z5124XW01 4300 0040 40	TOTAL NO. OF CONTAINERS	
	CHAIN OF CUSTODY SEALS	
	GOOD CONDITION/CHILLED	
VIA: LAB COURIER	CONFORMS TO RECORD	MA

1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
(PRINTED NAME)	(PRINTED NAME) L. Guerra	(PRINTED NAME) Vicki Hensley
RECEIVED BY:	RECEIVED BY:	(COMPANY) Pace Analysis
(TIME / DATE) 1630 7-23-01	(TIME / DATE)	(TIME / DATE) 10:00 AM 7-25-01

SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072504

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PROJECT NO.: 800 HH

PROJECT NAME: GROUNDWATER SAMPLING AT HELSTF DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOCs	TRPH MOD. DRO	TOC	SVOC	EXPLOSIVES	WATER QUA.	TOTAL METALS 6+	CHROMIUM	AMMONIA	PERCHLORATE	TKN	REMARKS
7/24/01	1100	0154-DRW01-0701	WATER	175694	19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7/24/01	1150	0154-DRW01-0701-TB	WATER	175695	2	✓											
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	HNO_3	4°C	4°C	H_2SO_4		

PROJECT INFORMATION		
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED	
	TOTAL NO. OF CONTAINERS	
SHIPPING ID. NO.: UPS-1Z312 4XW01 4343 4715 30	CHAIN OF CUSTODY SEALS	
	GOOD CONDITION/CHILLED	
VIA: LAB COURIER	CONFORMS TO RECORD	NA

1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
(PRINTED NAME)	(PRINTED NAME)	(PRINTED NAME) Vicki Hensley
RECEIVED BY:	RECEIVED BY:	(COMPANY) Pace Analysis
(TIME / DATE) 1650 7-24-01	(TIME / DATE)	(TIME / DATE) 10:00 7-26-01

SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072501

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT NO.: 800 HH

PROJECT NAME: GROUNDWATER SAMPLING AT HELSTF DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA (NH3 + NH4)	TOTAL PHOSPHOROUS	DISS. IONS	DISS. METALS	REMARKS
7/23/01	1160	0154-DRW01-01	WATER	175694	19					
		~~0154-DRW01-01-TB~~	~~WATER~~							
						H_2SO_4	H_2SO_4	4°C	HNO_3	

PROJECT INFORMATION		
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED	
SHIPPING ID. NO.: UPS-1Z3124XW01 4345 4715 3°	TOTAL NO. OF CONTAINERS	
VIA: Lab Courier	CHAIN OF CUSTODY SEALS	
	GOOD CONDITION/CHILLED	
	CONFORMS TO RECORD	NA

1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
(PRINTED NAME) Juan Rodriguez	(PRINTED NAME)	(PRINTED NAME) Vicki Ansley
RECEIVED BY:	RECEIVED BY:	(COMPANY) Peace Analysis
(TIME / DATE) 1650 7-24-01	(TIME / DATE)	(TIME / DATE) 10:00 am 7-26-01

SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072502

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.: 800 HH
PROJECT NAME: GROUNDWATER SAMPLING AT HELST DIESEL SPILL
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOCs	TPH MOD DRO	TOC	SVOC	EXPLOSIVES	WATER QUAL	TOTAL METALS 6+	CHROMIUM AMMONIA + PERCHLORATE	TKN	REMARKS
7-24-01	1400	0154-DRW02-0701	WATER	175696	19	x	x	x	x	x	x	x	x	x	
7-24-01	1408	0154-DRW02-0701-TB	WATER	175697	2	x									
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	HNO_3	4°C	4°C	H_2SO_4

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED		(PRINTED NAME)	(PRINTED NAME)	(PRINTED NAME) Vicki Hensley
SHIPPING ID. NO.: UPS-1Z3124XW01 4343 4715-3°	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace Analysis
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS		(TIME / DATE) 1650 7-24-01	(TIME / DATE)	(TIME / DATE) 10:00am 7-26-01
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS:		
	CONFORMS TO RECORD	NA	PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072502

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PROJECT NO.: 800 HH

PROJECT NAME: GROUNDWATER SAMPLING AT HELSTF DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA (NH_3+NH_4)	TOTAL PHOSPHORUS	DISS. FE/MN	DISS. METALS							REMARKS
7-28-01	1428	0154-DRW02-0701	WATER	175696	19	✓	✓	✓	✓							
		~~0154-DRW02-0178~~	~~WATER~~													
						H_2SO_4	H_2SO_4 4°C		HNO_3							

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED		(PRINTED NAME): CARMEL GARCIA	(PRINTED NAME)	(PRINTED NAME): Vicki Hartley
SHIPPING ID. NO.: UPS-1Z3124XW01 4345 4715-30	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY): Pace Analysis
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS		(TIME / DATE): 1650 7-29-01	(TIME / DATE)	(TIME / DATE)
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS:		
	CONFORMS TO RECORD	MA	PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072503

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.: 800 HH
PROJECT NAME: GROUNDWATER SAMPLING @ HEISTT DIESEL SPILL
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOCs	TPH MOD DRO	TOC	SVOC	Explosives	Wet Chem	Total Metals 6+	Chromium	Ammonia	Perchlorate	TKN	REMARKS
7-26-01	1105	0154-DRW05-0701	WATER	175698	19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7-26-01	1105	0154-DRW05-0701-TB	WATER	175699	2	✓											
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	HNO_3	4°C	4°C	4°C	H_2SO_4	

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED		(PRINTED NAME) GABRIEL GALLEGOS	(PRINTED NAME)	(PRINTED NAME) Vicki Hansley
SHIPPING ID. NO.: UPS-1Z3124XW01 4345 4715 30	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace Analysis
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS		(TIME / DATE) 1050 7-26-01	(TIME / DATE)	(TIME / DATE) 10:00AM 7-26-01
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS:		
	CONFORMS TO RECORD	NA	PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072503

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT NO.: 800 HH

PROJECT NAME: ~~GROUNDWATER SAMPLING~~ @ HELSTF DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA (NH_3 + NH_4)	TOTAL PHOSPHORUS	DISS. IONS	DISS. METALS	REMARKS
7-24-01	1105	0154-DRW05-01	WATER	175698	19	✓	✓	✓	✓	
		~~0154-DRW05-01 TB~~	~~WATER~~							
						H_2SO_4	H_2SO_4	4°C	HNO_3	

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED		(PRINTED NAME): GABRIEL GARCIA	(PRINTED NAME):	(PRINTED NAME): Vicki Hinsley
SHIPPING ID. NO.: UPS-1Z3124XW01 4345 4715 3°	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY): Peace Analysis
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS		(TIME / DATE): 1655 7-24-01	(TIME / DATE):	(TIME / DATE): 10:00 AM 7-26-01
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.		
	CONFORMS TO RECORD	MA			

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

AU172504

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.: 800 HH
PROJECT NAME: GROUNDWATER SAMPLING @ HOLSTE DIESEL SPILL
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC's	TPH-GRO MOD	TOC	SVOC	EXPLOSIVES	WATER QUAL	TOTAL METALS 6+	CHROMIUM AMMONIA PHENOLMATE	TKN	REMARKS
7/24/01	1346	0154-DRW12-0701	WATER	175700	19										
7/24/01	1346	0154-DRW12-0701-TB	WATER	175701	2										
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	HNO_3	4°C	4°C	H_2SO_4

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED		(PRINTED NAME): Juan Hidalgo	(PRINTED NAME):	(PRINTED NAME): Vicki Hinsley
SHIPPING ID. NO.: UPS-12 3124XW01 4345 4715 3D	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY): Trace Analysis
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS		(TIME / DATE): 1630 7-24-01	(TIME / DATE):	(TIME / DATE): 10:00AM 7-26-01
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS		
	CONFORMS TO RECORD	NA			

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072504

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT NO.: 800 HH

PROJECT NAME: GROUNDWATER SAMPLING @ HELSTF DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA (NH_3 + NH_4)	TOTAL PHOSPHORUS	DISS. IONS	DISS. METALS							REMARKS
7/24/01	1846	0154-DRW12-0701	WATER	175700	19	✓	✓	✓	✓							
		~~0154-DRW12-01-TB~~	~~WATER~~													
						H_2SO_4	H_2SO_4	4°C	HNO_3							

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED		(PRINTED NAME)	(PRINTED NAME)	(PRINTED NAME) Vicki Hensley
SHIPPING ID. NO.: UPS-1Z 312 4XW01 4345 0215 3°	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Pace Analysis
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS		(TIME / DATE) 1650 7/24/01	(TIME / DATE)	(TIME / DATE) 10:00AM 7/26/01
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.		
	CONFORMS TO RECORD	NA			

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A0107 2505

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.: 800 HH
PROJECT NAME: GROUNDWATER SAMPLING @ HELSTE DIESEL SPILL
SAMPLER'S SIGNATURE: Aaron Gatchell

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC's	TPH MOD DRO	TOC	SVOC	EXPLOSIVES	WATER QUAL	TOTAL METALS	CHLORIDE & AMMONIA PERCHLORATE	TKN	REMARKS
7/24/01	1128	0154-DRW13-0701	WATER	175702	17	X	X	X	X	X	X	X	X	X	
7/24/01	1128	0154-DRW13-0701-TB	WATER	175703	2	X									
						HCL	HCL	H_2SO_4 4°C	4°C	4°C	HNO_3	4°C	4°C	H_2SO_4	

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED		(PRINTED NAME) Aaron Gatchell	(PRINTED NAME)	(PRINTED NAME) Vicki Hinsley
SHIPPING ID. NO.: UPS 1Z 3124XW01 4345 4715 30	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace Analysis
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS		(TIME / DATE) 1650 7-24-01	(TIME / DATE)	(TIME / DATE) 10:00 7-26-01
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.		
	CONFORMS TO RECORD	NA			

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072505

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PROJECT NO.: 800 HH

PROJECT NAME: GROUNDWATER SAMPLING @ HELSTF DIESEL SPILL

SAMPLER'S SIGNATURE: [signature]

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA (NH_3+NH_4)	TOTAL PHOSPHOROUS	DISS IONS	DISS METALS							REMARKS
7/24/01	1128	0154-DRW13-01	WATER	175702	19	X	X	X	X							
		~~0154-DRW13-01-TB~~	~~WATER~~													
						H_2SO_4	H_2SO_4	4°C	HNO_3							

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED		(PRINTED NAME) Aaron Gotchall	(PRINTED NAME)	(PRINTED NAME) Vicki Hensley
SHIPPING ID. NO.: UPS 12 3124 XW01 4345 6115 30	TOTAL NO. OF CONTAINERS		RECEIVED BY: [signature]	RECEIVED BY:	(COMPANY) TRACE Analysis
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS		(TIME / DATE) 1650 7-24-01	(TIME / DATE)	(TIME / DATE) 10:00 A. 7.26.01
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS:		
	CONFORMS TO RECORD	MA	PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072623

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PROJECT NO.: 800 44
PROJECT NAME: GROUNDWATER SAMPLING @ HELSTF DIESEL SPILL
SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC's	MOD TPH DRO	TOC	SVOC	EXPLOSIVES	WATER QUAL	TOTAL METALS	CHROMIUM 6+ AMMONIA PERCHLORATE	TKN	REMARKS
7-25-01	1305	0154-HCF01-0701	WATER	175854	19	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7-25-01	1305	0154-HCF01-0701-TB	WATER	175855	2	X									
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	HNO_3	4°C	4°C	H_2SO_4

PROJECT INFORMATION	SAMPLES RECEIVED	1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	TOTAL NO. OF CONTAINERS	(PRINTED NAME) SABATEC GARCIA	(PRINTED NAME) R. Peck	(PRINTED NAME) Vicki Hensley
SHIPPING ID. NO.: 12-312 4XW 01 434 1 813 30	CHAIN OF CUSTODY SEALS	RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace Analysis
VIA: LAB COURIER	GOOD CONDITION/CHILLED	(TIME / DATE) 7/25/01 16:45	(TIME / DATE)	(TIME / DATE) 10:00 AM 7-27-01
	CONFORMS TO RECORD	SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

MB

A01072623

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT NO.: 800 HH

PROJECT NAME: GROUNDWATER SAMPLING @ HALLETT DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA A (NH_3 + NH_4)	TOTAL PHOSPHORUS	DISS. PHOS	DISS. METALS							REMARKS
7-26-01	1305	0154-HCF01-07-01	WATER	175854	19	✓	✓	✓	✓							
		~~0154-HCF01-01-TB~~	~~WATER~~													
						H_2SO_4	H_2SO_4	4°C	HNO_3							

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED		(PRINTED NAME) SARAH GARCIA	(PRINTED NAME)	(PRINTED NAME) Vicki Hensley
SHIPPING ID. NO.: 123124XW01 4341 8131 30	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Lab Analysis
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS		(TIME / DATE) 7/25/01 16:45	(TIME / DATE)	(TIME / DATE) 10:00 7-27-01
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS		
	CONFORMS TO RECORD				

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072623

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.: 800 HH

PROJECT NAME: GROUNDWATER SAMPLING @ HCLSTF DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOCs	MOD GRO TPH	TOC	SVOC	Explosives	Water Quality	Total Metals	Chromium 6+	Ammonia Perchlorate	TKN	REMARKS
7-25-01	1305	0154-HCF01-07 01-MS/MSD	WATER	175854	19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7-25-01	1305	0154-HCF01-0701-MS/MSD-TB	WATER	175855	2	✓										
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	HNO_3	4°C	4°C	H_2SO_4	

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED		(PRINTED NAME) GABRIEL GARCIA	(PRINTED NAME) R. Peck	(PRINTED NAME) Vicki Hensler
SHIPPING ID. NO.: 12312 4XW01 4341 8131 30	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Teace Analysis
VIA: LOA COURIER	CHAIN OF CUSTODY SEALS		(TIME / DATE) 7/25/01 16:45	(TIME / DATE)	(TIME / DATE) 10:00am 7-27-01
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS:		
	CONFORMS TO RECORD		PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS		

PLEASE USE BALL POINT PEN

NS DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072623

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PROJECT NO.: 800 HH

PROJECT NAME: GROUNDWATER SAMPLING @ HELSTF DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA (NH3+NH4)	TOTAL PHOSPHORUS	DISS IONS	DISS METALS	REMARKS
7-25-01	1305	0154-HCF01-0701-MS/MSD	WATER	175854	19	✓	✓	✓	✓	
		~~0154-HCF01-01-MS/MSD-TB~~	~~WATER~~							
						H_2SO_4	H_2SO_4	4°C	HNO_3	

PROJECT INFORMATION		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED	(PRINTED NAME): ABDEL GARCIA	(PRINTED NAME): R Peck	(PRINTED NAME): Vicki Hensler
SHIPPING ID. NO.: IZ 312 4XW01 4341 8131 30	TOTAL NO. OF CONTAINERS	RECEIVED BY:	RECEIVED BY:	(COMPANY): RECPAnalysis
VIA: LAB COURIER	CHAIN OF CUSTODY SEALS	(TIME / DATE): 7/25/01 16:45	(TIME / DATE):	(TIME / DATE): 10:00AM 7-27-01
	GOOD CONDITION/CHILLED	SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED LIST FOR DETAILS		
	CONFORMS TO RECORD			

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

MS

A0107 2624

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.: 800 HH
PROJECT NAME: GROUNDWATER SAMPLING @ HELSTF DIESEL SPILL
SAMPLER'S SIGNATURE: [signature]

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOCs	TPH MOD	DRO	TOC	SVOC	EXPLOSIVES	WATER QUAL	TOTAL METALS 6+	CHROMIUM	AMMONIA	PERCHLORATE	TKN	REMARKS
7/25/01	1221	0154-DRW16-0701	WATER	175856	19	✓												
7/25/01	1221	0154-DRW16-0701-TB	WATER	175857	02													
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	HNO_3	4°C	4°C	H_2SO_4			

PROJECT INFORMATION		
PROJECT MANAGER: KAREN COSTA	SAMPLES RECEIVED	
	TOTAL NO. OF CONTAINERS	
SHIPPING ID. NO.: 12 312 4XW01 4341 8131 3	CHAIN OF CUSTODY SEALS	
	GOOD CONDITION/CHILLED	
VIA: LAB COURIER	CONFORMS TO RECORD	

1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
Juan Rodriguez	[signature]	[signature]
(PRINTED NAME) [signature]	(PRINTED NAME) R. Poole	(PRINTED NAME) Vicki Hensley
RECEIVED BY: [signature]	RECEIVED BY:	(COMPANY) Trace Analysis
(TIME / DATE) 7/25/01 16:47	(TIME / DATE)	(TIME / DATE) 10:00 7-27-01

SPECIAL INSTRUCTIONS / COMMENTS:
PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS.

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

A01072624

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT NO.: 800 HH

PROJECT NAME: GROUND WATER SAMPLING @ HEST DIESEL SPILL

SAMPLER'S SIGNATURE:

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	AMMONIA (NH_3+NH_4)	TOTAL PHOSPHOROUS	DISS. IONS	DISS METALS	REMARKS
7/25/01	1227	0154-DRW16-01	WATER	175856	19					
		~~0154-DRW16-01-TB~~	~~WATER~~	N/C						
						H_2SO_4	H_2SO_4	4°C	HNO_3	

PROJECT INFORMATION	SAMPLES RECEIVED	1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: KAREN COSTA	TOTAL NO. OF CONTAINERS	(PRINTED NAME) Juan Rodriguez	(PRINTED NAME) R. Peck	(PRINTED NAME) Vicki Hansley
SHIPPING ID. NO.: IZ 312 4XW01 4341 8131 3°	CHAIN OF CUSTODY SEALS	RECEIVED BY:	RECEIVED BY:	(COMPANY) Race Analysis
VIA: LAB COURIER	GOOD CONDITION/CHILLED	(TIME / DATE) 7/25/01 16:45	(TIME / DATE)	(TIME / DATE) 10:00A 7-27-01
	CONFORMS TO RECORD	SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

TMS