

### **ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS (SUMMARY SHEETS)**

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This attachment contains the summary sheets from the laboratory analytical reports prepared by Laucks and CAS. Complete analytical reports are available upon request.

**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL54**

**September 13, 2007**



# LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL54  
Date of Report: September 13, 2007

## **SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:**

### **Sample Receipt and Identification:**

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<b><u>Client Sample Identification</u></b>	<b><u>Laucks Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-21-5	JPL54-001	VOA/MET/PER
MW-21-4	JPL54-002	VOA/MET/PER
MW-21-3	JPL54-003	VOA/MET/PER
MW-21-2	JPL54-004	VOA/MET/PER
MW-21-1	JPL54-005	VOA/MET/PER
EB-1-8/21/07	JPL54-006	VOA/MET/PER
TB-1-8/21/07	JPL54-007	VOA

### **Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)

### **Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.

The temperature blank for one cooler was measured at a temperature above the control limit of  $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ . The client was notified of this discrepancy via email on August 22, 2007. The laboratory was instructed to proceed with analysis.

## **GENERAL REMARKS ON ORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

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### Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

### Holding Time Compliance:

#### *Volatile Organic Compounds:*

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

### Volatiles Fraction:

#### Method Blank

Analysis of the method blank performed on 09/01/2007 resulted in the detection of methylene chloride. This analyte was not detected in the associated samples; no further action was taken.

#### Quality Control Analyses:

All quality control parameters were met.

### **GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

#### ICP-MS Metals:

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

### **SPECIFIC REMARKS ON INORGANIC ANALYSES:**

#### Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

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Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None

ICP-MS Metals:

No comments.

Miscellaneous Inorganics:

No comments.

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### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
  - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
  - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
  - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
  - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
  - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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### INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
  - E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
  - N Spiked sample recovery not within control limits.
  - \* Duplicate analysis not within control limits.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**LAUCKS TESTING LABORATORIES**

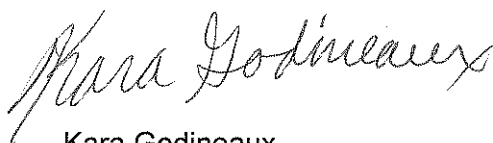
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RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,



Kara Godineaux  
Project Manager

9/13/07  
(DATE)



Harry Romberg  
Quality Assurance Officer

9/13/07  
(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

**LAUCKS TESTING LABORATORIES**

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**ATTACHMENT A**

Chain-of-Custody Copies

LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG									
Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)	TurMet for 200.7/200.8 TurMet		
JPL54-001	08/22/2007 08:20 AM	08/21/2007 11:23 AM	MW-21-5	IN	IN	IN	A-		
JPL54-002	08/22/2007 08:20 AM	08/21/2007 12:00 PM	MW-21-4	IN	IN	IN	A-		
JPL54-003	08/22/2007 08:20 AM	08/21/2007 12:30 PM	MW-21-3	IN	IN	IN	A-		
JPL54-004	08/22/2007 08:20 AM	08/21/2007 01:04 PM	MW-21-2	IN	IN	IN	A-		
JPL54-005	08/22/2007 08:20 AM	08/21/2007 01:36 PM	MW-21-1	IN	IN	IN	A-		
JPL54-006	08/22/2007 08:20 AM	08/21/2007 01:23 PM	EB-1-8/21/07	IN	IN	IN	A-		
JPL54-007	08/22/2007 08:20 AM	08/21/2007 12:00 AM	TB-1-8/21/07			IN			
Approved By:	<i>Phan Gordon</i>			On:			8/22/07		
Notes:	Samples identified with a '*' client has requested QC for								
LEGEND: --:Started, +:Completed, IN:Logged In, P:Preparation, A:Analysis, X:Cancelled, PL:Pre-logged									
FORM LTL-PM-8.0									





**SAMPLE DATA**

SDG JPL54

VOLATILES ANALYSIS

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-5

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin  
 SDG No.: JPL54 Run Sequence: R021094  
 Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL54-001  
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0901017.D  
 Level: (LOW/MED) \_\_\_\_\_ Date Collected: 08/21/2007  
 % Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/01/2007 16:01  
 GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.38	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	4.3	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL54  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-001  
 Lab File ID: B0901017.D  
 Date Collected: 08/21/2007  
 Date/Time Analyzed: 09/01/2007 16:01  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
10061-02-	trans-1,3-Dichloropropene	0.50		U
79-00-5	1,1,2-Trichloroethane	0.50		U
127-18-4	Tetrachloroethene	1.9		
142-28-9	1,3-Dichloropropane	0.50		U
124-48-1	Dibromochloromethane	0.50		U
106-93-4	1,2-Dibromoethane	0.50		U
108-90-7	Chlorobenzene	0.50		U
100-41-4	Ethylbenzene	0.50		U
630-20-6	1,1,1,2-Tetrachloroethane	0.50		U
179601-23	m,p-Xylene	1.0		U
95-47-6	o-Xylene	0.50		U
100-42-5	Styrene	0.50		U
75-25-2	Bromoform	0.50		U
98-82-8	Isopropylbenzene	0.50		U
79-34-5	1,1,2,2-Tetrachloroethane	0.50		U
103-65-1	n-Propylbenzene	0.50		U
108-86-1	Bromobenzene	0.50		U
96-18-4	1,2,3-Trichloropropane	0.50		U
95-49-8	2-Chlorotoluene	0.50		U
108-67-8	1,3,5-Trimethylbenzene	0.50		U
106-43-4	4-Chlorotoluene	0.50		U
98-06-6	tert-Butylbenzene	0.50		U
95-63-6	1,2,4-Trimethylbenzene	0.50		U
135-98-8	sec-Butylbenzene	0.50		U
99-87-6	4-Isopropyltoluene	0.50		U
541-73-1	1,3-Dichlorobenzene	0.50		U
106-46-7	1,4-Dichlorobenzene	0.50		U
104-51-8	n-Butylbenzene	0.50		U
95-50-1	1,2-Dichlorobenzene	0.50		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-5

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL54

Run Sequence: R021094

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL54-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0901017.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/21/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/01/2007 16:01

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL54  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-002  
 Lab File ID: B0901018.D  
 Date Collected: 08/21/2007  
 Date/Time Analyzed: 09/01/2007 16:27  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
75-71-8	Dichlorodifluoromethane	0.50		U
74-87-3	Chloromethane	0.50		U
75-01-4	Vinyl chloride	0.32		J
74-83-9	Bromomethane	0.50		U
75-00-3	Chloroethane	0.50		U
75-69-4	Trichlorofluoromethane	0.50		U
75-35-4	1,1-Dichloroethene	0.50		U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50		U
75-09-2	Methylene chloride	1.0		U
1634-04-4	Methyl tert-butyl ether	3.0		
156-60-5	trans-1,2-Dichloroethene	0.50		U
75-34-3	1,1-Dichloroethane	0.50		U
594-20-7	2,2-Dichloropropane	0.50		U
156-59-2	cis-1,2-Dichloroethene	0.50		U
78-93-3	2-Butanone	5.0		U
74-97-5	Bromochloromethane	0.50		U
67-66-3	Chloroform	0.50		U
71-55-6	1,1,1-Trichloroethane	0.50		U
56-23-5	Carbon tetrachloride	0.50		U
563-58-6	1,1-Dichloropropene	0.50		U
71-43-2	Benzene	0.33		J
107-06-2	1,2-Dichloroethane	0.50		U
79-01-6	Trichloroethene	0.50		U
78-87-5	1,2-Dichloropropane	0.50		U
74-95-3	Dibromomethane	0.50		U
75-27-4	Bromodichloromethane	0.50		U
10061-01-	cis-1,3-Dichloropropene	0.50		U
108-10-1	4-Methyl-2-pentanone	5.0		U
108-88-3	Toluene	0.50		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL54  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-002  
 Lab File ID: B0901018.D  
 Date Collected: 08/21/2007  
 Date/Time Analyzed: 09/01/2007 16:27  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.26	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	0.90	J
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	1.3	
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-4

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL54

Run Sequence: R021094

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL54-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0901018.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/21/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/01/2007 16:27

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-3

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL54

Run Sequence: R021094

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL54-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0901019.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/21/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/01/2007 16:52

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	1.1	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	2.3	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.5	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL54  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-003  
 Lab File ID: B0901019.D  
 Date Collected: 08/21/2007  
 Date/Time Analyzed: 09/01/2007 16:52  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	7.8	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL54  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-003  
 Lab File ID: B0901019.D  
 Date Collected: 08/21/2007  
 Date/Time Analyzed: 09/01/2007 16:52  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL54  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-004  
 Lab File ID: B0901020.D  
 Date Collected: 08/21/2007  
 Date/Time Analyzed: 09/01/2007 17:18  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
75-71-8	Dichlorodifluoromethane	0.50		U
74-87-3	Chloromethane	0.50		U
75-01-4	Vinyl chloride	0.50		U
74-83-9	Bromomethane	0.50		U
75-00-3	Chloroethane	0.50		U
75-69-4	Trichlorofluoromethane	0.50		U
75-35-4	1,1-Dichloroethene	0.50		U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50		U
75-09-2	Methylene chloride	1.0		U
1634-04-4	Methyl tert-butyl ether	0.50		U
156-60-5	trans-1,2-Dichloroethene	0.50		U
75-34-3	1,1-Dichloroethane	0.50		U
594-20-7	2,2-Dichloropropane	0.50		U
156-59-2	cis-1,2-Dichloroethene	1.4		
78-93-3	2-Butanone	5.0		U
74-97-5	Bromochloromethane	0.50		U
67-66-3	Chloroform	2.2		
71-55-6	1,1,1-Trichloroethane	0.50		U
56-23-5	Carbon tetrachloride	0.50		U
563-58-6	1,1-Dichloropropene	0.50		U
71-43-2	Benzene	0.50		U
107-06-2	1,2-Dichloroethane	0.50		U
79-01-6	Trichloroethene	0.73		
78-87-5	1,2-Dichloropropane	0.50		U
74-95-3	Dibromomethane	0.50		U
75-27-4	Bromodichloromethane	0.50		U
10061-01-	cis-1,3-Dichloropropene	0.50		U
108-10-1	4-Methyl-2-pentanone	5.0		U
108-88-3	Toluene	0.50		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL54  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-004  
 Lab File ID: B0901020.D  
 Date Collected: 08/21/2007  
 Date/Time Analyzed: 09/01/2007 17:18  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	7.6	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL54  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-004  
 Lab File ID: B0901020.D  
 Date Collected: 08/21/2007  
 Date/Time Analyzed: 09/01/2007 17:18  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-1

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL54

Run Sequence: R021094

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL54-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0901021.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/21/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/01/2007 17:44

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.43	J
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.48	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-1

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL54

Run Sequence: R021094

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL54-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0901021.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/21/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/01/2007 17:44

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-1

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL54

Run Sequence: R021094

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL54-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0901021.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/21/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/01/2007 17:44

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-1-8/21/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL54

Run Sequence: R021094

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL54-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0901022.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/21/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/01/2007 18:09

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-1-8/21/07

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin

SDG No.: JPL54 Run Sequence: R021094

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL54-006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0901022.D

Level: (LOW/MED) \_\_\_\_\_ Date Collected: 08/21/2007

% Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/01/2007 18:09

GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	0.80	J
95-47-6	o-Xylene	0.25	J
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-1-8/21/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL54

Run Sequence: R021094

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL54-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0901022.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/21/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/01/2007 18:09

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-1-8/21/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL54

Run Sequence: R021094

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL54-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0901016.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/21/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/01/2007 15:36

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-1-8/21/07

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin  
 SDG No.: JPL54 Run Sequence: R021094  
 Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL54-007  
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0901016.D  
 Level: (LOW/MED) \_\_\_\_\_ Date Collected: 08/21/2007  
 % Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/01/2007 15:36  
 GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-1-8/21/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL54

Run Sequence: R021094

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL54-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0901016.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/21/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/01/2007 15:36

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21-5

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL54  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-001  
 Lab File ID: E0901017.D  
 Date Collected: 08/22/2007  
 Date Analyzed: 09/01/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:



1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21-4

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL54

Run Sequence: R021094

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL54-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0901018.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/22/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/01/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21-3

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL54  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-003  
 Lab File ID: B0901019.D  
 Date Collected: 08/22/2007  
 Date Analyzed: 09/01/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL54  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-004  
 Lab File ID: B0901020.D  
 Date Collected: 08/22/2007  
 Date Analyzed: 09/01/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21-1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL54  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-005  
 Lab File ID: B0901021.D  
 Date Collected: 08/22/2007  
 Date Analyzed: 09/01/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-1-8/21/07

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL54  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL)      mL  
 Level: (LOW/MED)       
 % Moisture: not dec.       
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume:      (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-006  
 Lab File ID: B0901022.D  
 Date Collected: 08/22/2007  
 Date Analyzed: 09/01/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume:      (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-1-8/21/07

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL54  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021094  
 Lab Sample ID: JPL54-007  
 Lab File ID: B0901016.D  
 Date Collected: 08/22/2007  
 Date Analyzed: 09/01/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B090107MVOWB1

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL54

Run Sequence: R021094

Matrix: (SOIL/WATER) Water

Lab Sample ID: B090107MVOWB1

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0901013.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/01/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
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Comments:

**FORMS SUMMARY**

**JPL54**

**Metals Data**



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-5

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL54

Matrix (soil/water): Water

Lab Sample ID: JPL54-001

Level (low/med): LOW

Date Received: 08/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	10.3			M	R020909

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-4

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL54

Matrix (soil/water): Water

Lab Sample ID: JPL54-002

Level (low/med): LOW

Date Received: 08/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	13.0			M	R021348

Color Before: Black Clarity Before: Clear Texture: \_\_\_\_\_

Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL54

Matrix (soil/water): Water

Lab Sample ID: JPL54-003

Level (low/med): LOW

Date Received: 08/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	16.1			M	R020909

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL54

Matrix (soil/water): Water

Lab Sample ID: JPL54-004

Level (low/med): LOW

Date Received: 08/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	15.9			M	R020909

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL54

Matrix (soil/water): Water

Lab Sample ID: JPL54-005

Level (low/med): LOW

Date Received: 08/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	11.5			M	R020909

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-1-8/21/07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL54

Matrix (soil/water): Water

Lab Sample ID: JPL54-006

Level (low/med): LOW

Date Received: 08/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.04			M	R020909

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**FORMS SUMMARY**

**JPL54**

**Miscellaneous Inorganics**

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL54  
Sample Number: MW-21-5 Date/Time Collected: 08/21/2007 11:23  
Lab Sample ID: JPL54-001 Date/Time Received: 08/22/2007 08:20  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	08/27/2007	08/28/2007	R020917



Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL54  
Sample Number: MW-21-4 Date/Time Collected: 08/21/2007 12:00  
Lab Sample ID: JPL54-002 Date/Time Received: 08/22/2007 08:20  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	08/27/2007	08/28/2007	R020917

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL54  
Sample Number: MW-21-3 Date/Time Collected: 08/21/2007 12:30  
Lab Sample ID: JPL54-003 Date/Time Received: 08/22/2007 08:20  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	08/27/2007	08/28/2007	R020917

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL54  
Sample Number: MW-21-2 Date/Time Collected: 08/21/2007 13:04  
Lab Sample ID: JPL54-004 Date/Time Received: 08/22/2007 08:20  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	08/27/2007	08/28/2007	R020917

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL54  
Sample Number: MW-21-1 Date/Time Collected: 08/21/2007 13:36  
Lab Sample ID: JPL54-005 Date/Time Received: 08/22/2007 08:20  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	08/27/2007	08/28/2007	R020917

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL54  
Sample Number: EB-1-8/21/07 Date/Time Collected: 08/21/2007 13:23  
Lab Sample ID: JPL54-006 Date/Time Received: 08/22/2007 08:20  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	08/27/2007	08/28/2007	R020917

**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL55**

**September 13, 2007**

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL55  
Date of Report: September 13, 2007

**SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:**

**Sample Receipt and Identification:**

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<b><u>Client Sample Identification</u></b>	<b><u>Laucks Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-14-5	JPL55-001	VOA/PER
MW-14-4	JPL55-002	VOA/PER
MW-14-3	JPL55-003	VOA/MET/PER
MW-14-2	JPL55-004	VOA/MET/PER
MW-14-1	JPL55-005	VOA/MET/PER
EB-2-8/22/07	JPL55-006	VOA/MET/PER
TB-2-8/22/07	JPL55-007	VOA

**Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.

Two of two volatiles bottles submitted for TB-2-8/22/07 (JPL55-07) contained bubbles of less than 1/4 inch in size.

**GENERAL REMARKS ON ORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

### Holding Time Compliance:

#### *Volatile Organic Compounds:*

The holding time is 14 days calculated from the date of collection in both soil and water samples. All samples were analyzed within holding times.

### Volatiles Fraction:

#### Method Blank

Analysis of the method blank performed on 09/02/2007 resulted in the detection of methylene chloride. The presence of this analyte may be due to laboratory contamination since it is a common laboratory solvent. All sample results reported for this analyte have been "B" flagged to denote its presence in the associated method blank analysis.

#### Quality Control Analyses:

All quality control parameters were met

### **GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

#### ICP-MS Metals:

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

### **SPECIFIC REMARKS ON INORGANIC ANALYSES:**

#### Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.



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Seattle, WA 98108

### Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

### Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None

### ICP-MS Metals:

The serial dilution for the element chromium did not agree within 10% of the original determination after correction for dilution for sample MW-14-3. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms I and IX.

The scandium internal standard percent recovery for sample MW-14-1 fell outside of the control limits of 60-125% of the intensity of scandium in the initial calibration verification sample. Chromium is associated with this internal standard. Therefore, results for chromium for sample MW-14-1 were reported from a two-fold dilution where the scandium internal standard is within the control limits.

### Miscellaneous Inorganics:

No comments.

## LAUCKS TESTING LABORATORIES

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Seattle, WA 98108

### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
  - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
  - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
  - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
  - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
  - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

## LAUCKS TESTING LABORATORIES

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Seattle, WA 98108

### INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
- E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
- N Spiked sample recovery not within control limits.
- \* Duplicate analysis not within control limits.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**LAUCKS TESTING LABORATORIES**


940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,

  
Kara Godineaux  
Project Manager

9/19/07  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

9/13/07  
(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies

LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG							
Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)	TurMet for 200.7/200.8 TurMet
JPL55-001	08/23/2007 08:30 AM	08/22/2007 07:53 AM	MW-14-5		IN	IN	
JPL55-002	08/23/2007 08:30 AM	08/22/2007 08:16 AM	MW-14-4		IN	IN	
*JPL55-003	08/23/2007 08:30 AM	08/22/2007 08:41 AM	MW-14-3	IN	IN	IN	A-
JPL55-004	08/23/2007 08:30 AM	08/22/2007 09:08 AM	MW-14-2	IN	IN	IN	A-
*JPL55-005	08/23/2007 08:30 AM	08/22/2007 09:40 AM	MW-14-1	IN	IN	IN	A-
JPL55-006	08/23/2007 08:30 AM	08/22/2007 09:23 AM	EB-2- 8/22/07	IN	IN	IN	A-
JPL55-007	08/23/2007 08:30 AM	08/22/2007 12:00 AM	TB-2- 8/22/07			IN	
Approved By: <i>Kara Godwin</i>				On: 8/24/2007			
Notes:							
Samples identified with a '*' client has requested QC for							
LEGEND: -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged							
FORM LTL-PM-8.0							

3807

THIS INFORMATION WILL BE USED FOR REPORTING/BILLING\* (SEE BELOW)

COMPANY: **BATTELLE**  
 ADDRESS: **3990 OLD TOWN AVE., C-205  
 SAN DIEGO, CA 92110**  
 ATTENTION: **DAVID CANNER**  
 PROJECT NAME: **SPL GW MON. 3807**  
 PROJECT CONTACT: **DAVID CANNER**  
 TELEPHONE: **619-726-7311** FAX:  
 JOB/P.O. NO.: **6481099/210640**

CHAIN OF CUSTODY RECORD SDG # **JPL55**  
 PAGE **1** OF **1**  
 WORK ORDER ID#  
 SUBMITTED AT:

**Laucks**  
 Testing Laboratories, Inc.  
 940 South Hammy St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063  
 1100 Ledwith Ave., Yakima, WA 98902 (509) 248-4695 FAX 492-1065

TESTS TO PERFORM

LAB SA#	SAMPLE ID / LOCATION	DATE	TIME	NO. OF CONTAINERS	MATRIX: WATER, SOIL OR SPECIFY	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1	MW-14-5	8/22/07	753	4	X	
2	MW-14-4	8/16		4	X	X
3	MW-14-3	8/16		5	X	X
4	MW-14-2	9/08		1	X	X
5	MW-14-1	9/40		10	X	X
6	EB-2-8/22/07	9/23		15	X	X
7	TB-2-8/22/07			2	X	

NO. OF CONTAINERS  
 MATRIX: WATER, SOIL OR SPECIFY  
 WK (524.2)  
 TDR or (1008)  
 T (104) - (314.0)

A. A standard turnaround time is assumed unless otherwise marked. B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS:  
 1. USE ONE LINE PER SAMPLE.  
 2. BE SPECIFIC IN TEST REQUESTS.  
 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

RELINQUISHED BY (SIGN AND PRINT): **Marc Mendota** / **MARC MENDOTA**  
 DATE/TIME: **8/22/07 1230**

RECEIVED BY (SIGN AND PRINT): **Patricia Coetzee**  
 DATE/TIME: **8/23/07 08:30**

CITY, STATE, ZIP: **SOS KING AVE. COLUMBUS, OH 43201**

BILLING INFORMATION IF DIFFERENT THAN ABOVE:  
 NAME: **BATTELLE**  
 ADDRESS: **SOS KING AVE.**  
 CITY, STATE, ZIP: **COLUMBUS, OH 43201**

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL.  
 TURNAROUND REQUEST:  
 STD. 10-14 WORKING DAYS  
 \* 24-48 HRS. (100% SUR)  
 \* 72 HRS. (75% SUR)  
 \* 5 DAYS (50% SUR)  
 OTHER:  
 TEMP.  
 CUSTODY SEAL:  Y  N  N/A

TOTAL NO. OF CONTAINERS

**FORMS SUMMARY**

SDG JPL55

VOLATILES ANALYSIS



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-5

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin

SDG No.: JPL55 Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL55-001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0902010.D

Level: (LOW/MED) \_\_\_\_\_ Date Collected: 08/22/2007

% Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/02/2007 14:42

GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-5

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL55

Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL55-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902010.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/22/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/02/2007 14:42

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL55  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-001  
 Lab File ID: B0902010.D  
 Date Collected: 08/22/2007  
 Date/Time Analyzed: 09/02/2007 14:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.50	Q
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-4

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL55

Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL55-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902011.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/22/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/02/2007 15:07

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-4

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin

SDG No.: JPL55 Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL55-002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0902011.D

Level: (LOW/MED) \_\_\_\_\_ Date Collected: 08/22/2007

% Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/02/2007 15:07

GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
10061-02-	trans-1,3-Dichloropropene	0.50		U
79-00-5	1,1,2-Trichloroethane	0.50		U
127-18-4	Tetrachloroethene	0.50		U
142-28-9	1,3-Dichloropropane	0.50		U
124-48-1	Dibromochloromethane	0.50		U
106-93-4	1,2-Dibromoethane	0.50		U
108-90-7	Chlorobenzene	0.50		U
100-41-4	Ethylbenzene	0.50		U
630-20-6	1,1,1,2-Tetrachloroethane	0.50		U
179601-23	m,p-Xylene	1.0		U
95-47-6	o-Xylene	0.50		U
100-42-5	Styrene	0.50		U
75-25-2	Bromoform	0.50		U
98-82-8	Isopropylbenzene	0.50		U
79-34-5	1,1,2,2-Tetrachloroethane	0.50		U
103-65-1	n-Propylbenzene	0.50		U
108-86-1	Bromobenzene	0.50		U
96-18-4	1,2,3-Trichloropropane	0.50		U
95-49-8	2-Chlorotoluene	0.50		U
108-67-8	1,3,5-Trimethylbenzene	0.50		U
106-43-4	4-Chlorotoluene	0.50		U
98-06-6	tert-Butylbenzene	0.50		U
95-63-6	1,2,4-Trimethylbenzene	0.50		U
135-98-8	sec-Butylbenzene	0.50		U
99-87-6	4-Isopropyltoluene	0.50		U
541-73-1	1,3-Dichlorobenzene	0.50		U
106-46-7	1,4-Dichlorobenzene	0.50		U
104-51-8	n-Butylbenzene	0.50		U
95-50-1	1,2-Dichlorobenzene	0.50		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL55  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-002  
 Lab File ID: B0902011.D  
 Date Collected: 08/22/2007  
 Date/Time Analyzed: 09/02/2007 15:07  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL55  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-003  
 Lab File ID: B0902012.D  
 Date Collected: 08/22/2007  
 Date/Time Analyzed: 09/02/2007 15:33  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.35	J
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.49	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.2	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL55  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-003  
 Lab File ID: B0902012.D  
 Date Collected: 08/22/2007  
 Date/Time Analyzed: 09/02/2007 15:33  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.55	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,1,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL55  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-003  
 Lab File ID: B0902012.D  
 Date Collected: 08/22/2007  
 Date/Time Analyzed: 09/02/2007 15:33  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL55  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-004  
 Lab File ID: B0902013.D  
 Date Collected: 08/22/2007  
 Date/Time Analyzed: 09/02/2007 15:58  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.25	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.47	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	5.9	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL55

Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL55-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902013.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/22/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/02/2007 15:58

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.38	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,1,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-2

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin

SDG No.: JPL55 Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL55-004

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0902013.D

Level: (LOW/MED) \_\_\_\_\_ Date Collected: 08/22/2007

% Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/02/2007 15:58

GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL55  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-005  
 Lab File ID: B0902014.D  
 Date Collected: 08/22/2007  
 Date/Time Analyzed: 09/02/2007 16:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.38	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	2.8	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL55  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-005  
 Lab File ID: B0902014.D  
 Date Collected: 08/22/2007  
 Date/Time Analyzed: 09/02/2007 16:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL55  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-005  
 Lab File ID: B0902014.D  
 Date Collected: 08/22/2007  
 Date/Time Analyzed: 09/02/2007 16:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-2-8/22/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL55

Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL55-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902015.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/22/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/02/2007 16:51

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.3	B
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-2-8/22/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL55

Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL55-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902015.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/22/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/02/2007 16:51

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EE-2-8/22/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL55  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-006  
 Lab File ID: B0902015.D  
 Date Collected: 08/22/2007  
 Date/Time Analyzed: 09/02/2007 16:51  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-2-8/22/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL55  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-007  
 Lab File ID: B0902008.D  
 Date Collected: 08/22/2007  
 Date/Time Analyzed: 09/02/2007 13:50  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-2-8/22/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL55

Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL55-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902008.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/22/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/02/2007 13:50

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-2-8/22/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL55  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-007  
 Lab File ID: B0902008.D  
 Date Collected: 08/22/2007  
 Date/Time Analyzed: 09/02/2007 13:50  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-14-5

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL55

Run Sequence: R021096

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL55-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902010.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/23/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/02/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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14				
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29				
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-14-4

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL55  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-002  
 Lab File ID: B0902011.D  
 Date Collected: 08/23/2007  
 Date Analyzed: 09/02/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
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26				
27				
28				
29				
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-14-3

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL55  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-003  
 Lab File ID: B0902012.D  
 Date Collected: 08/23/2007  
 Date Analyzed: 09/02/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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25				
26				
27				
28				
29				
30				

Comments:



1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-14-2

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL55

Run Sequence: R021096

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL55-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902013.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/23/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/02/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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26					
27					
28					
29					
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-14-1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL55  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-005  
 Lab File ID: B0902014.D  
 Date Collected: 08/23/2007  
 Date Analyzed: 09/02/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-2-8/22/07

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL55  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-006  
 Lab File ID: B0902015.D  
 Date Collected: 08/23/2007  
 Date Analyzed: 09/02/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
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29				
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-2-8/22/07

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL55  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL55-007  
 Lab File ID: B0902008.D  
 Date Collected: 08/23/2007  
 Date Analyzed: 09/02/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B090207MVOWB1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL55  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: B090207MVOWB1  
 Lab File ID: B0902007.D  
 Date Collected: \_\_\_\_\_  
 Date Analyzed: 09/02/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
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30					

Comments:

**FORMS SUMMARY**

**JPL55**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-14-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL55

Matrix (soil/water): Water

Lab Sample ID: JPL55-003

Level (low/med): LOW

Date Received: 08/23/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	13.6		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-14-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL55

Matrix (soil/water): Water

Lab Sample ID: JPL55-004

Level (low/med): LOW

Date Received: 08/23/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	15.3		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-14-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL55

Matrix (soil/water): Water

Lab Sample ID: JPL55-005

Level (low/med): LOW

Date Received: 08/23/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	11.2		E	M	R021394

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-2-8/22/07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL55

Matrix (soil/water): Water

Lab Sample ID: JPL55-006

Level (low/med): LOW

Date Received: 08/23/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U	E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**FORMS SUMMARY**

**JPL55**

**Miscellaneous Inorganics**

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL55  
Sample Number: MW-14-5 Date/Time Collected: 08/22/2007 07:53  
Lab Sample ID: JPL55-001 Date/Time Received: 08/23/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	08/27/2007	08/28/2007	R020917

Laucks Testing Laboratories, Inc.

Final Results

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL55  
**Sample Number:** MW-14-4 **Date/Time Collected:** 08/22/2007 08:16  
**Lab Sample ID:** JPL55-002 **Date/Time Received:** 08/23/2007 08:30  
**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	08/27/2007	08/28/2007	R020917

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL55  
Sample Number: MW-14-3 Date/Time Collected: 08/22/2007 08:41  
Lab Sample ID: JPL55-003 Date/Time Received: 08/23/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	08/27/2007	08/28/2007	R020917

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL55  
Sample Number: MW-14-2 Date/Time Collected: 08/22/2007 09:08  
Lab Sample ID: JPL55-004 Date/Time Received: 08/23/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	08/27/2007	08/28/2007	R020917

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL55  
Sample Number: MW-14-1 Date/Time Collected: 08/22/2007 09:40  
Lab Sample ID: JPL55-005 Date/Time Received: 08/23/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	08/27/2007	08/28/2007	R020917



Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL55  
Sample Number: EB-2-8/22/07 Date/Time Collected: 08/22/2007 09:23  
Lab Sample ID: JPL55-006 Date/Time Received: 08/23/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	08/27/2007	08/28/2007	R020917

**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL56**

**September 13, 2007**

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL56  
Date of Report: September 13, 2007

**SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:**

**Sample Receipt and Identification:**

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Laucks Sample Identification</u>	<u>Testing Analytical Request</u>
MW-17-4	JPL56-001	VOA/MET/PER
MW-17-3	JPL56-002	VOA/MET/PER
MW-17-2	JPL56-003	VOA/MET/PER
EB-3-8/23/07	JPL56-004	VOA/MET/PER
TB-3-8/23/07	JPL56-005	VOA
MW-18-5	JPL56-006	VOA/PER
MW-18-4	JPL56-007	VOA/MET/PER
MW-18-3	JPL56-008	VOA/MET/PER
MW-18-2	JPL56-009	VOA/MET/PER

Analytical Request Key:

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)

**Sample Receipt Comments:**

There were no anomalies associated with the receipt of these samples.

**GENERAL REMARKS ON ORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

## LAUCKS TESTING LABORATORIES

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Seattle, WA 98108

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

### Holding Time Compliance:

#### *Volatile Organic Compounds:*

The holding time is 14 days calculated from the date of collection in both soil and water samples. All samples were analyzed within holding time.

### Volatiles Fraction:

#### Method Blank

Analysis of the method blank performed on 09/02/2007 resulted in the detection of methylene chloride. The presence of this analyte may be due to laboratory contamination since it is a common laboratory solvent. Because there were no hits in any associated samples so no further action.

#### Quality Control Analyses:

Client requested MS/MSD analyses could not be performed on sample MW-17-2 due to insufficient sample volume. All spiking analytes in the blank spike analysis recovered within the control limits.

### **GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

#### ICP Metals:

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

### **SPECIFIC REMARKS ON INORGANIC ANALYSES:**

#### Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

#### Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

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Seattle, WA 98108

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None

ICP-MS Metals:

The serial dilution for the element chromium did not agree within 10% of the original determination after correction for dilution for sample MW-17-2. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms 1 and 9.

Miscellaneous Inorganics:

No comments.

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Seattle, WA 98108

### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
  - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
  - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
  - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
  - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
  - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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### INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
  - E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
  - N Spiked sample recovery not within control limits.
  - \* Duplicate analysis not within control limits.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**LAUCKS TESTING LABORATORIES**

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Seattle, WA 98108

RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,



Kara Godineaux  
Project Manager

9/14/07  
(DATE)



Harry Romberg  
Quality Assurance Officer

9/14/07  
(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.



**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies

LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG									
Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)	TurMet for 200.7/200.8 TurMet		
JPL56-001	08/24/2007 08:50 AM	08/23/2007 07:56 AM	MW-17-4	IN	IN	IN	IN		
JPL56-002	08/24/2007 08:50 AM	08/23/2007 08:29 AM	MW-17-3	IN	IN	IN	IN		
*JPL56-003	08/24/2007 08:50 AM	08/23/2007 09:02 AM	MW-17-2	IN	IN	IN	IN		
JPL56-004	08/24/2007 08:50 AM	08/23/2007 08:48 AM	EB-3-8/23/07	IN	IN	IN	IN		
JPL56-005	08/24/2007 08:50 AM	08/23/2007 08:48 AM	TB-3-8/23/07		IN	IN			
JPL56-006	08/24/2007 08:50 AM	08/23/2007 10:06 AM	MW-18-5		IN	IN			
JPL56-007	08/24/2007 08:50 AM	08/23/2007 10:36 AM	MW-18-4	IN	IN	IN	IN		
JPL56-008	08/24/2007 08:50 AM	08/23/2007 11:06 AM	MW-18-3	IN	IN	IN	IN		
JPL56-009	08/24/2007 08:50 AM	08/23/2007 11:40 AM	MW-18-2	IN	IN	IN	IN		

Approved By: *[Signature]* On: 8/24/07

Notes: Samples identified with a '\*' client has requested QC for

LEGEND: -:Started, +:Completed, IN:Logged In, P:Preparation, A:Analysis, X:Cancelled, PL:Pre-logged

FORM LTL-PM-8.0

COMPANY: BATTLE  
 ADDRESS: 3990 OLD TOWN AVE, C-205  
SAV DICKO, CA 92110  
 ATTENTION: DAVID COLLIER  
 PROJECT NAME: SPL GILMAN 3007  
 PROJECT CONTACT: DAVID COLLIER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/P.O. NO.: 6486090/210690

CHAIN OF CUSTODY RECORD SDG # SPL56  
 43073 PAGE 1 OF 1  
 WORK ORDER ID# \_\_\_\_\_ SUBMITTED AT: \_\_\_\_\_  
 TESTING LABORATORIES, INC. 91  
 940 South Fernway St. Seattle, WA 98108 (206) 757-5060 FAX 757-5063  
 1109 Lovell Ave. Vashon, WA 98082 (206) 248-1035 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY \_\_\_\_\_  
 NO. OF CONTAINERS  
5 (524.0)  
1 TOTAL of (600.0)  
1 Clay - (314.0)  
 TESTS TO PERFORM \_\_\_\_\_  
 OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS \_\_\_\_\_

LAB. S/N	SAMPLE ID / LOCATION	DATE	TIME	MATRIX	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1	MW-17-4	8/13/07	756	✓	5		
2	MW-17-3	8/29			X X X		
3	MW-17-2	9/02			X X X		LEVELTIC DC
4	EB-3-8/123/07	8/48			X X X		EQIP BANK
5	TS-3-8/123/07	-			2 X		TEIP BANK

A. A standard turnaround time is assumed unless otherwise marked.  
 B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS: 1. USE ONE LINE PER SAMPLE.  
 2. BE SPECIFIC IN TEST REQUESTS.  
 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

NAME: BATTLE ADDRESS: 505 KIMBLE AVE.  
 ATTN: GERALD TORRILLIS CITY, STATE ZIP: COLUMBUS, OH 43201  
 RECEIVED BY (SIGN AND PRINT): Elizabeth S. Shaw

DATE: 8/13/07 TIME: 1330 DATE: 8/24/07 TIME: 0550

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TOTAL NO. OF CONTAINERS \_\_\_\_\_  
 TURNAROUND REQUEST:  STD. 10-14 WORKING DAYS  
 24-48 HRS. (100% SUR)  
 72 HRS. (75% SUR)  
 5 DAYS (60% SUR)  
 OTHER: \_\_\_\_\_  
 TEMP: \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  N/A



WORK ORDER ID#

SUBMITTED AT:

Testing Laboratories, Inc.   
 940 South Hamoy St., Seattle, WA 98148 (206) 767-2460 FAX 767-5063   
 1106 Leitch Ave., Tallinn, VA 98982 (809) 348-4095 FAX 652-1265

COMPANY: BATTLE  
 ADDRESS: 3990 Old Town Ave, C-205  
San Diego, CA 92110  
 ATTENTION: DAVID COWEN  
 PROJECT NAME: JPL Gil Adv. 3007  
 PROJECT CONTACT: DAVID COWEN  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/P.O. NO.: 6586090/210640

LAB. S/N: \_\_\_\_\_ SAMPLE ID / LOCATION: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
	VOL (524.2)		<b>2</b>
	TOTAL CR (200.0)		
	CLAY (314.0)		

LAB. S/N	SAMPLE ID / LOCATION	DATE	TIME																	
6	MW-18-5	9/23/07	1006	W	4	X	X	X												
7	MW-18-4		1036		5	X	X	X												
8	MW-18-3		1106			X	X	X												
9	MW-18-2		1145			X	X	X												
10	EB	9/23/07				X	X	X												

EQUIP BLANK

A. A standard turnaround time is assumed unless otherwise marked.  
 B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

- USE ONE LINE PER SAMPLE.
- BE SPECIFIC IN TEST REQUESTS.
- CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

REINQUISHED BY (SIGN AND PRINT)

NAME: BATTLE  
 ATTN: DAVID COWEN

ADDRESS: 505 KINLO AVE  
 CITY, STATE, ZIP: COLUMBUS, OH 43201

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TOTAL NO. OF CONTAINERS: \_\_\_\_\_  
 TURNAROUND REQUEST:  STD. 10-14 WORKING DAYS  
 24-48 HRS. (100% SUR)  
 72 HRS. (75% SUR)  
 5 DAYS (60% SUR)  
 OTHER: \_\_\_\_\_  
 TEMP: \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  N/A

REINQUISHED BY (SIGN AND PRINT)

NAME: \_\_\_\_\_  
 ATTN: \_\_\_\_\_

DATE: 9/23/07  
 TIME: 1330

RECEIVED BY (SIGN AND PRINT)

DATE: 9/23/07  
 TIME: 0850

**FORMS SUMMARY**

SDG JPL56

VOLATILES ANALYSIS

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-001  
 Lab File ID: B0902016.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 17:17  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.63	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-001  
 Lab File ID: B0902016.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 17:17  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-001  
 Lab File ID: B0902016.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 17:17  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-002  
 Lab File ID: B0902017.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 17:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
75-71-8	Dichlorodifluoromethane	0.50		U
74-87-3	Chloromethane	0.50		U
75-01-4	Vinyl chloride	0.50		U
74-83-9	Bromomethane	0.50		U
75-00-3	Chloroethane	0.50		U
75-69-4	Trichlorofluoromethane	0.50		U
75-35-4	1,1-Dichloroethene	0.50		U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50		U
75-09-2	Methylene chloride	1.0		U
1634-04-4	Methyl tert-butyl ether	0.50		U
156-60-5	trans-1,2-Dichloroethene	0.50		U
75-34-3	1,1-Dichloroethane	0.50		U
594-20-7	2,2-Dichloropropane	0.50		U
156-59-2	cis-1,2-Dichloroethene	0.50		U
78-93-3	2-Butanone	5.0		U
74-97-5	Bromochloromethane	0.50		U
67-66-3	Chloroform	0.87		
71-55-6	1,1,1-Trichloroethane	0.50		U
56-23-5	Carbon tetrachloride	1.8		
563-58-6	1,1-Dichloropropene	0.50		U
71-43-2	Benzene	0.50		U
107-06-2	1,2-Dichloroethane	0.50		U
79-01-6	Trichloroethene	0.96		
78-87-5	1,2-Dichloropropane	0.50		U
74-95-3	Dibromomethane	0.50		U
75-27-4	Bromodichloromethane	0.50		U
10061-01-	cis-1,3-Dichloropropene	0.50		U
108-10-1	4-Methyl-2-pentanone	5.0		U
108-88-3	Toluene	0.50		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-3

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL56

Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL56-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902017.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/23/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/02/2007 17:42

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.29	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-002  
 Lab File ID: B0902017.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 17:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-003  
 Lab File ID: B0902018.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 18:08  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.26	J
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.53	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.1	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-2

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin

SDG No.: JPL56 Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL56-003

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0902018.D

Level: (LOW/MED) \_\_\_\_\_ Date Collected: 08/23/2007

% Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/02/2007 18:08

GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.63	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-003  
 Lab File ID: B0902018.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 18:08  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-3-8/23/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-004  
 Lab File ID: B0902019.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 18:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-3-8/23/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-004  
 Lab File ID: B0902019.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 18:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-3-8/23/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-004  
 Lab File ID: B0902019.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 18:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-3-8/23/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL56

Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL56-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902009.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/23/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/02/2007 14:15

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-3-8/23/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL56

Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL56-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902009.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/23/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/02/2007 14:15

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-3-8/23/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-005  
 Lab File ID: B0902009.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 14:15  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-5

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL56

Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL56-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902020.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/23/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/02/2007 19:00

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-006  
 Lab File ID: B0902020.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 19:00  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-006  
 Lab File ID: B0902020.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 19:00  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-007  
 Lab File ID: B0902021.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 19:26  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	2.0	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	9.1	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.1	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-4

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL56

Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL56-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902021.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/23/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/02/2007 19:26

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.53	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-007  
 Lab File ID: B0902021.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 19:26  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-3

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL56

Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL56-008

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902022.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/23/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/02/2007 19:52

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	1.3	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	8.3	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.64	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-008  
 Lab File ID: B0902022.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 19:52  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.27	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-008  
 Lab File ID: B0902022.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 19:52  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-009  
 Lab File ID: B0902023.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 20:18  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL56

Run Sequence: R021096

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL56-009

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902023.D

Level: (LOW/MBD) \_\_\_\_\_

Date Collected: 08/23/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/02/2007 20:18

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL56  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-009  
 Lab File ID: B0902023.D  
 Date Collected: 08/23/2007  
 Date/Time Analyzed: 09/02/2007 20:18  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:



1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-17-4

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL56

Run Sequence: R021096

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL56-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902016.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/24/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/02/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-17-3

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL56  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-002  
 Lab File ID: B0902017.D  
 Date Collected: 08/24/2007  
 Date Analyzed: 09/02/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
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26					
27					
28					
29					
30					

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-3-8/23/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL56

Run Sequence: R021096

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL56-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902019.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/24/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/02/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
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25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-3-8/23/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL56

Run Sequence: R021096

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL56-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902009.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/23/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/02/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 1

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	unknown	5.03	5.1	J
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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27				
28				
29				
30				

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-18-5

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL56  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-006  
 Lab File ID: B0902020.D  
 Date Collected: 08/24/2007  
 Date Analyzed: 09/02/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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25				
26				
27				
28				
29				
30				

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-18-4

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL56  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021096  
 Lab Sample ID: JPL56-007  
 Lab File ID: B0902021.D  
 Date Collected: 08/24/2007  
 Date Analyzed: 09/02/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
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21					
22					
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24					
25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-18-3

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL56

Run Sequence: R021096

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL56-008

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902022.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/24/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/02/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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28					
29					
30					

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-18-2

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL56

Run Sequence: R021096

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL56-009

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0902023.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/24/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/02/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
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28					
29					
30					

Comments:



**FORMS SUMMARY**

**JPL56**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-17-4

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL56

Matrix (soil/water): Water

Lab Sample ID: JPL56-001

Level (low/med): LOW

Date Received: 08/24/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	8.70		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-17-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL56

Matrix (soil/water): Water

Lab Sample ID: JPL56-002

Level (low/med): LOW

Date Received: 08/24/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	13.9		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-17-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL56

Matrix (soil/water): Water

Lab Sample ID: JPL56-003

Level (low/med): LOW

Date Received: 08/24/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	14.1		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-3-8/23/07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL56

Matrix (soil/water): Water

Lab Sample ID: JPL56-004

Level (low/med): LOW

Date Received: 08/24/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U	E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-4

Lab Name: Laucks LaboratoriesContract: JPL Groundwater MonitorinLab Code: LAUCKSSDG No.: JPL56Matrix (soil/water): WaterLab Sample ID: JPL56-007Level (low/med): LOWDate Received: 08/24/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.51		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL56

Matrix (soil/water): Water

Lab Sample ID: JPL56-008

Level (low/med): LOW

Date Received: 08/24/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	14.2		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-2

Lab Name: Laucks LaboratoriesContract: JPL Groundwater MonitorinLab Code: LAUCKSSDG No.: JPL56Matrix (soil/water): WaterLab Sample ID: JPL56-009Level (low/med): LOWDate Received: 08/24/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	12.4		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_



**FORMS SUMMARY**

**JPL56**

**Miscellaneous Inorganics**

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL56  
Sample Number: MW-17-4 Date/Time Collected: 08/23/2007 07:56  
Lab Sample ID: JPL56-001 Date/Time Received: 08/24/2007 08:50  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	08/28/2007	08/30/2007	R020968

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL56  
Sample Number: MW-17-3 Date/Time Collected: 08/23/2007 08:29  
Lab Sample ID: JPL56-002 Date/Time Received: 08/24/2007 08:50  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2.5	34		2.5	0.35	08/28/2007	08/30/2007	R020968

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL56  
Sample Number: MW-17-2 Date/Time Collected: 08/23/2007 09:02  
Lab Sample ID: JPL56-003 Date/Time Received: 08/24/2007 08:50  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	7.9		4.0	0.56	08/28/2007	08/30/2007	R020968

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL56  
Sample Number: EB-3-8/23/07 Date/Time Collected: 08/23/2007 08:48  
Lab Sample ID: JPL56-004 Date/Time Received: 08/24/2007 08:50  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	08/28/2007	08/30/2007	R020968

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL56  
Sample Number: MW-18-5 Date/Time Collected: 08/23/2007 10:06  
Lab Sample ID: JPL56-006 Date/Time Received: 08/24/2007 08:50  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	08/28/2007	08/30/2007	R020968

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL56  
Sample Number: MW-18-4 Date/Time Collected: 08/23/2007 10:36  
Lab Sample ID: JPL56-007 Date/Time Received: 08/24/2007 08:50  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	20		2.0	0.28	08/28/2007	08/30/2007	R020968

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL56  
Sample Number: MW-18-3 Date/Time Collected: 08/23/2007 11:06  
Lab Sample ID: JPL56-008 Date/Time Received: 08/24/2007 08:50  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	25		2.0	0.28	08/28/2007	08/30/2007	R020968



Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL56  
Sample Number: MW-18-2 Date/Time Collected: 08/23/2007 11:40  
Lab Sample ID: JPL56-009 Date/Time Received: 08/24/2007 08:50  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	08/28/2007	08/30/2007	R020968

**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL57**

**September 19, 2007**

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL57  
Date of Report: September 19, 2007

**SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:**

**Sample Receipt and Identification:**

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Laucks Sample Identification</u>	<u>Testing Analytical Request</u>
MW-19-5	JPL57-001	VOA/PER
MW-19-4	JPL57-002	VOA/PER
MW-19-3	JPL57-003	VOA/PER
MW-19-2	JPL57-004	VOA/PER
MW-19-1	JPL57-005	VOA/PER
EB-4-8/24/07	JPL57-006	VOA/PER
TB-4-8/25/07	JPL57-007	VOA
MW-20-5	JPL57-008	VOA/MET/PER
MW-20-4	JPL57-009	VOA/MET/PER
MW-20-3	JPL57-010	VOA/MET/PER
MW-20-2	JPL57-011	VOA/MET/PER
MW-20-1	JPL57-012	VOA/MET/PER
EB-5-8/27/07	JPL57-013	VOA/MET/PER
TB-5-8/27/07	JPL57-014	VOA

Analytical Request Key:

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)

**Sample Receipt Comments:**

There were no anomalies associated with the receipt of these samples.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

#### Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

#### Holding Time Compliance:

##### *Volatile Organic Compounds:*

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

#### Volatiles Fraction:

##### Continuing Calibration Verification (CCV):

In the CCV performed on 09/09/2007 the percent drift value for dichlorodifluoromethane exceeded 30% due to increased response. This analyte was not detected in any associated samples so no further action was taken. In addition this CCV yielded percent drift values for bromoform that exceeded 30% due to decreased response. Because sample results were reported well below the reporting limit (RL) the chance of reporting any false negatives for those compounds that recovered low at the RL was negligible.

In the CCV performed on 09/10/2007 the percent drift values for dichlorodifluoromethane exceeded 30% due to decreased response. Because sample results were reported well below the reporting limit (RL) the chance of reporting any false negatives for those compounds that recovered low at the RL was negligible.

In the CCV performed on 09/10/2007 the percent difference values for 2,2-dichloropropane and n-butylbenzene exceeded 30% due to increased response. These analytes were not detected in any associated samples so no further action was taken.

##### Quality Control Analyses:

The MSD analysis performed on sample MW-19-3 yielded a low recovery for dichlorodifluoromethane. The blank spike analysis on 09/10/2007 yielded low recoveries for dichlorodifluoromethane. Because sample results were reported well below the reporting limit (RL) the chance of reporting any false negatives for those compounds that recovered low at the RL was negligible.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

**GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

**ICP Metals:**

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

**SPECIFIC REMARKS ON INORGANIC ANALYSES:**

**Holding Time Compliance:**

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

**Metals:**

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

**Miscellaneous:**

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None

**ICP-MS Metals:**

Samples in this SDG were prepared along with other client samples and sample-level QC was performed on a batch-level basis. Although samples from this SDG were not selected for sample level QC, all comments regarding duplicate sample precision and matrix spike spike recovery (if applicable) apply to all samples digested and analyzed together.

The serial dilution for the element chromium did not agree within 10% of the original determination after correction for dilution for sample MW-17-2 of SDG JPL56. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms 1 and 9. Sample level QC and analytical times can be seen on Form 14. For QC results, see JPL56 or the raw data provided.

**Miscellaneous Inorganics:**

No comments.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
  - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
  - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
  - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
  - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
  - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
  - E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
  - N Spiked sample recovery not within control limits.
  - \* Duplicate analysis not within control limits.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,

  
Kara Godineaux  
Project Manager

  
Harry Romberg  
for Quality Assurance Officer

19 Sept 07  
(DATE)

19 Sept 07  
(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.



**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies

LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG							
Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)	TurMet for 200.7/200.8 TurMet
JPL57-001	08/28/2007 08:30 AM	08/24/2007 07:46 AM	MW-19-5		IN	IN	
JPL57-002	08/28/2007 08:30 AM	08/24/2007 08:07 AM	MW-19-4		IN	IN	
*JPL57-003	08/28/2007 08:30 AM	08/24/2007 08:39 AM	MW-19-3		IN	IN	
JPL57-004	08/28/2007 08:30 AM	08/24/2007 09:04 AM	MW-19-2		IN	IN	
JPL57-005	08/28/2007 08:30 AM	08/24/2007 09:22 AM	MW-19-1		IN	IN	
JPL57-006	08/28/2007 08:30 AM	08/24/2007 09:15 AM	EB-4-8/24/07		IN	IN	
JPL57-007	08/28/2007 08:30 AM	08/24/2007 12:00 AM	TB-4-8/25/07			IN	
JPL57-008	08/28/2007 08:30 AM	08/27/2007 08:16 AM	MW-20-5	IN	IN	IN	A+
JPL57-009	08/28/2007 08:30 AM	08/27/2007 08:49 AM	MW-20-4	IN	IN	IN	A+
JPL57-010	08/28/2007 08:30 AM	08/27/2007 09:21 AM	MW-20-3	IN	IN	IN	A+
JPL57-011	08/28/2007 08:30 AM	08/27/2007 09:50 AM	MW-20-2	IN	IN	IN	A+
JPL57-012	08/28/2007 08:30 AM	08/27/2007 10:20 AM	MW-20-1	IN	IN	IN	A+
JPL57-013	08/28/2007 08:30 AM	08/27/2007 10:07 AM	EB-5-8/27/07	IN	IN	IN	A+
JPL57-014	08/28/2007 08:30 AM	08/27/2007 12:00 AM	TB-5-8/27/07			IN	

Approved By: *[Signature]* On: 8/29/07

Notes: Samples identified with a '\*' client has requested QC for

LEGEND: -:Started, +:Completed, IN:Logged In, P:Preparation, A:Analysis, X:Cancelled, PL:Pre-logged  
 FORM LTL-PM-8.0

# Laucks

Testing Laboratories, Inc.

940 South Hamlet, St. Seattle, WA 98108 (206) 767-5060 FAX 767-5063  
 1106 Lockwood Ave., Tukwila, WA 98148 (206) 248-6665 FAX 452-0465

CHAIN OF CUSTODY RECORD SDG # SPL57 PAGE 1 OF 1  
 43079 SUBMITTED AT: \_\_\_\_\_

WORK ORDER ID# \_\_\_\_\_  
 MATRIX: WATER, SOIL OR SPECIFY \_\_\_\_\_

### TESTS TO PERFORM

LAB #	SAMPLE ID / LOCATION	DATE	TIME	NO. OF CONTAINERS	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1	MW-19-5	8/24/07	746	4	
2	MW-19-4	807		4	
3	MW-19-3	839		8	MS/MSD
4	MW-19-2	904		4	
5	MW-19-1	922		4	
6	EB-4-8	124/07	915	4	EQUIP BLANK
7	TB-4-8	124/07	-	2	TRIP BLANK

A. A standard turnaround time is assumed unless otherwise marked. B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

**INSTRUCTIONS**  
 1. USE ONE LINE PER SAMPLE.  
 2. BE SPECIFIC IN TEST REQUESTS.  
 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

**BILLING INFORMATION, IF DIFFERENT THAN ABOVE**  
 NAME: BATTELLE ADDRESS: 505 KING AVE.  
 CITY, STATE, ZIP: COLUMBUS, OH 43201

**RELINQUISHED BY (SIGN AND PRINT)** NAME MENDOZA **RECEIVED BY (SIGN AND PRINT)** Elizabeth G. Sear  
**DATE TIME** 8/27/07 1300 **DATE TIME** 8/25/07 0830

**\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL**

**TURNAROUND REQUEST**  
 STD. 10-14 WORKING DAYS  
 24-48 HRS. (100% SUR)  
 72 HRS. (75% SUR)  
 5 DAYS (50% SUR)  
 OTHER \_\_\_\_\_  
 TEMP. \_\_\_\_\_

**TOTAL NO. OF CONTAINERS** \_\_\_\_\_

CUSTODY SEAL:  Y  N  N/A



**FORMS SUMMARY**

SDG JPL57

VOLATILES ANALYSIS

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-5

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021195

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL57-001

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0904019.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/24/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/04/2007 18:08

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-001  
 Lab File ID: M0904019.D  
 Date Collected: 08/24/2007  
 Date/Time Analyzed: 09/04/2007 18:08  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	2.9	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-5

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021195

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL57-001

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0904019.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/24/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/04/2007 18:08

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-4

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021195

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL57-002

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0904020.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/24/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/04/2007 18:47

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-4

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021195

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL57-002

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0904020.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/24/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/04/2007 18:47

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.59	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-002  
 Lab File ID: M0904020.D  
 Date Collected: 08/24/2007  
 Date/Time Analyzed: 09/04/2007 18:47  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-3

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021195

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL57-003

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0904021.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/24/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/04/2007 19:25

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-003  
 Lab File ID: M0904021.D  
 Date Collected: 08/24/2007  
 Date/Time Analyzed: 09/04/2007 19:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-003  
 Lab File ID: M0904021.D  
 Date Collected: 08/24/2007  
 Date/Time Analyzed: 09/04/2007 19:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-004  
 Lab File ID: M0904022.D  
 Date Collected: 08/24/2007  
 Date/Time Analyzed: 09/04/2007 20:04  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.53	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.1	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021195

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL57-004

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0904022.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/24/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/04/2007 20:04

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.76	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-2

Lab Name: \_\_\_\_\_

SDG No.: JPL57

Matrix: (SOIL/SED/WATER) Water

Sample wt/vol: 25.0 (g/mL) mL

Level: (LOW/MED) \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

GC Column: ZB-624 20m ID: 0.18 (mm)

Soil Extract Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin

Run Sequence: R021195

Lab Sample ID: JPL57-004

Lab File ID: M0904022.D

Date Collected: 08/24/2007

Date/Time Analyzed: 09/04/2007 20:04

Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-005  
 Lab File ID: M0904023.D  
 Date Collected: 08/24/2007  
 Date/Time Analyzed: 09/04/2007 20:43  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-005  
 Lab File ID: M0904023.D  
 Date Collected: 08/24/2007  
 Date/Time Analyzed: 09/04/2007 20:43  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-005  
 Lab File ID: M0904023.D  
 Date Collected: 08/24/2007  
 Date/Time Analyzed: 09/04/2007 20:43  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-4-8/24/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-006  
 Lab File ID: M0904024.D  
 Date Collected: 08/24/2007  
 Date/Time Analyzed: 09/04/2007 21:22  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-4-8/24/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021195

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL57-006

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0904024.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/24/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/04/2007 21:22

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-4-8/24/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-006  
 Lab File ID: M0904024.D  
 Date Collected: 08/24/2007  
 Date/Time Analyzed: 09/04/2007 21:22  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.50	Q
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-4-8/25/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021195

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL57-007

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0904017.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/24/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/04/2007 16:50

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-4-8/25/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-007  
 Lab File ID: M0904017.D  
 Date Collected: 08/24/2007  
 Date/Time Analyzed: 09/04/2007 16:50  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-4-8/25/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-007  
 Lab File ID: M0904017.D  
 Date Collected: 08/24/2007  
 Date/Time Analyzed: 09/04/2007 16:50  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-008  
 Lab File ID: M0904025.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/04/2007 22:00  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-008  
 Lab File ID: M0904025.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/04/2007 22:00  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-008  
 Lab File ID: M0904025.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/04/2007 22:00  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL57-009  
 Lab File ID: M0909009.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/09/2007 13:51  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-4

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021339

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL57-009

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0909009.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/27/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/09/2007 13:51

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL57-009  
 Lab File ID: M0909009.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/09/2007 13:51  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-3

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021339

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL57-010

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0909010.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/27/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/09/2007 14:28

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL57-010  
 Lab File ID: M0909010.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/09/2007 14:28  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.35	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,1,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-3
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Lab Name: \_\_\_\_\_

SDG No.: JPL57

Matrix: (SOIL/SED/WATER) Water

Sample wt/vol: 25.0 (g/mL) mL

Level: (LOW/MED) \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

GC Column: ZB-624 20m ID: 0.18 (mm)

Soil Extract Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin

Run Sequence: R021339

Lab Sample ID: JPL57-010

Lab File ID: M0909010.D

Date Collected: 08/27/2007

Date/Time Analyzed: 09/09/2007 14:28

Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL57-011  
 Lab File ID: M0909011.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/09/2007 15:05  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.36	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021339

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL57-011

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0909011.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/27/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/09/2007 15:05

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL57-011  
 Lab File ID: M0909011.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/09/2007 15:05  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL57-012  
 Lab File ID: M0910006.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/10/2007 10:37  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL57-012  
 Lab File ID: M0910006.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/10/2007 10:37  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-1

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021376

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL57-012

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0910006.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/27/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/10/2007 10:37

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-5-8/27/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL57-013  
 Lab File ID: M0909012.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/09/2007 15:41  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-5-8/27/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL57-013  
 Lab File ID: M0909012.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/09/2007 15:41  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-5-8/27/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL57-013  
 Lab File ID: M0909012.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/09/2007 15:41  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-5-8/27/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-014  
 Lab File ID: M0904018.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/04/2007 17:29  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-5-8/27/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-014  
 Lab File ID: M0904018.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/04/2007 17:29  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-5-8/27/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL57  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-014  
 Lab File ID: M0904018.D  
 Date Collected: 08/27/2007  
 Date/Time Analyzed: 09/04/2007 17:29  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-19-5

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL57  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-001  
 Lab File ID: M0904019.D  
 Date Collected: 08/28/2007 *24 8 09/18/07*  
 Date Analyzed: 09/04/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:



1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-19-4

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL57  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-002  
 Lab File ID: M0904020.D  
 Date Collected: 08/28/2007 <sup>24</sup> *JL 07/18/07*  
 Date Analyzed: 09/04/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-19-3

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL57  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-003  
 Lab File ID: M0904021.D  
 Date Collected: 08/28/2007 *24 8 09/15/07*  
 Date Analyzed: 09/04/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
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21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-19-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL57  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-004  
 Lab File ID: M0904022.D  
 Date Collected: 08/28/2007 *24 x 09/18/07*  
 Date Analyzed: 09/04/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-19-1

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021195

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL57-005

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0904023.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007 *24 of 02/18/07*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/04/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-4-8/24/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021195

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL57-006

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0904024.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007 *24-8-07/186*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/04/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-4-8/25/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021195

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL57-007

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0904017.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007 *28/28/2007*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/04/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
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24					
25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-20-5

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL57  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021195  
 Lab Sample ID: JPL57-008  
 Lab File ID: M0904025.D  
 Date Collected: 08/28/2007  
 Date Analyzed: 09/04/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
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25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-20-4

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021339

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL57-009

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0909009.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007 *27 8 9/1/07*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/09/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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24					
25					
26					
27					
28					
29					
30					

Comments:



1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-20-3

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021339

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL57-010

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0909010.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007 *of 9/18h*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/09/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-20-2

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021339

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL57-011

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0909011.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007 *21 18 9/1/07*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/09/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
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29					
30					

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-20-1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL57  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL57-012  
 Lab File ID: M0910006.D  
 Date Collected: 08/28/2007 *27 to 9/1/07*  
 Date Analyzed: 09/10/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
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11				
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30				

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-5-8/27/07

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL57  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL57-013  
 Lab File ID: M0909012.D  
 Date Collected: 08/28/2007 *27 9/18/07*  
 Date Analyzed: 09/09/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-5-8/27/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL57

Run Sequence: R021195

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL57-014

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0904018.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007 *27 to 9/1/07*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/04/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
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Comments:

**FORMS SUMMARY**

**JPL57**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-5

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL57

Matrix (soil/water): Water

Lab Sample ID: JPL57-008

Level (low/med): LOW

Date Received: 08/28/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	6.33		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-4

Lab Name: Laucks Laboratories Contract: JPL Groundwater Monitorin  
 Lab Code: LAUCKS SDG No.: JPL57  
 Matrix (soil/water): Water Lab Sample ID: JPL57-009  
 Level (low/med): LOW Date Received: 08/28/2007  
 % Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	8.30		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No  
 Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL57

Matrix (soil/water): Water

Lab Sample ID: JPL57-010

Level (low/med): LOW

Date Received: 08/28/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	15.1		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL57

Matrix (soil/water): Water

Lab Sample ID: JPL57-011

Level (low/med): LOW

Date Received: 08/28/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.40		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL57

Matrix (soil/water): Water

Lab Sample ID: JPL57-012

Level (low/med): LOW

Date Received: 08/28/2007

% Solids: \_\_\_\_\_

Concentration Units : uc/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	10.9		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-5-8/27/07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL57

Matrix (soil/water): Water

Lab Sample ID: JPL57-013

Level (low/med): LOW

Date Received: 08/28/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U	E	M	R02i307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**FORMS SUMMARY**

**JPL57**

**Miscellaneous Inorganics**

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL57  
Sample Number: MW-19-5 Date/Time Collected: 08/24/2007 07:46  
Lab Sample ID: JPL57-001 Date/Time Received: 08/28/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/05/2007	09/06/2007	R021197

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL57  
Sample Number: MW-19-4 Date/Time Collected: 08/24/2007 08:07  
Lab Sample ID: JPL57-002 Date/Time Received: 08/28/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2.5	2.5	U	2.5	0.35	09/05/2007	09/06/2007	R021197

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL57  
Sample Number: MW-19-3 Date/Time Collected: 08/24/2007 08:39  
Lab Sample ID: JPL57-003 Date/Time Received: 08/28/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/05/2007	09/06/2007	R021197



Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL57  
Sample Number: MW-19-2 Date/Time Collected: 08/24/2007 09:04  
Lab Sample ID: JPL57-004 Date/Time Received: 08/28/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/05/2007	09/06/2007	R021197

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL57  
Sample Number: MW-19-1 Date/Time Collected: 08/24/2007 09:22  
Lab Sample ID: JPL57-005 Date/Time Received: 08/28/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/05/2007	09/06/2007	R021197

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL57  
Sample Number: EB-4-8/24/07 Date/Time Collected: 08/24/2007 09:15  
Lab Sample ID: JPL57-006 Date/Time Received: 08/28/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	09/05/2007	09/06/2007	R021197

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL57  
Sample Number: MW-20-5 Date/Time Collected: 08/27/2007 08:16  
Lab Sample ID: JPL57-008 Date/Time Received: 08/28/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	09/05/2007	09/06/2007	R021197

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL57  
Sample Number: MW-20-4 Date/Time Collected: 08/27/2007 08:49  
Lab Sample ID: JPL57-009 Date/Time Received: 08/28/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/05/2007	09/06/2007	R021197

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL57  
Sample Number: MW-20-3 Date/Time Collected: 08/27/2007 09:21  
Lab Sample ID: JPL57-010 Date/Time Received: 08/28/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/05/2007	09/06/2007	R021197

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL57  
Sample Number: MW-20-2 Date/Time Collected: 08/27/2007 09:50  
Lab Sample ID: JPL57-011 Date/Time Received: 08/28/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/05/2007	09/06/2007	R021197

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL57  
Sample Number: MW-20-1 Date/Time Collected: 08/27/2007 10:20  
Lab Sample ID: JPL57-012 Date/Time Received: 08/28/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/05/2007	09/06/2007	R021197



Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL57  
Sample Number: EB-5-8/27/07 Date/Time Collected: 08/27/2007 10:07  
Lab Sample ID: JPL57-013 Date/Time Received: 08/28/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	09/05/2007	09/06/2007	R021197

**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL58**

**September 27, 2007**

# LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL58  
Date of Report: 9/27/2007

## **SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:**

### **Sample Receipt and Identification:**

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<b><u>Client Sample Identification</u></b>	<b><u>Laucks Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-4-3	JPL58-001	VOA/MET/PER
MW-4-2	JPL58-002	VOA/MET/PER
MW-4-1	JPL58-003	VOA/MET/PER
DUPE-1-3Q07	JPL58-004	VOA/MET/PER
EB-6-8/28/07	JPL58-005	VOA/MET/PER
TB-6-8/28/07	JPL58-006	VOA
MW-3-4	JPL58-007	VOA/MET/PER
MW-3-3	JPL58-008	VOA/MET/PER
MW-3-2	JPL58-009	VOA/MET/PER

### **Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)

### **Sample Receipt Comments:**

There were no anomalies associated with the receipt of these samples.

## **GENERAL REMARKS ON ORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

### **Manual Integrations:**

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

### Holding Time Compliance:

#### *Volatile Organic Compounds:*

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time. The MSD for sample MW-3-2 was analyzed outside of the holding time due to instrument failure.

### Volatiles Fraction:

#### Initial Calibration Verification:

In the ICV performed on 8/24/2007 t-butyl alcohol exceeded 25% due to increased response and 1-chlorohexane was not spiked. Because these analytes were not on the list for this SDG, no further action was taken.

In the ICV performed on 9/4/2007 t-butyl alcohol exceeded 25% due to increased response and dichlorodifluoromethane exceeded 25% due to decreased response. T-butyl alcohol was not on the list for this SDG. Because the second source is analyzed daily, no further action was taken for dichlorodifluoromethane.

#### Continuing Calibration Verification (CCV):

In the CCV performed on 9/9/2007 the percent drift value for dichlorodifluoromethane exceeded 30% due to increased response. This analyte was not detected in any associated samples; no further action was taken. Analysis of the same CCV yielded a percent drift value for bromoform that exceeded the control limit due to decreased response. Because sample results were reported well below the reporting limit (RL) the chance of reporting any false negatives for this compound that recovered low at the RL was negligible.

In the CCV performed on 9/10/2007 the percent D values for 2,2-dichloropropane and n-butylbenzene exceeded 30% due to increased response. These analytes were not detected in any associated samples so no further action was taken. Analysis of the same CCV yielded a percent drift value for dichlorodifluoromethane that exceeded the control limit due to decreased response. Because sample results were reported well below the reporting limit (RL) the chance of reporting any false negatives for this compound that recovered low at the RL was negligible.

In the CCV performed on 9/14/2007 the percent D value for 2,2-dichloropropane exceeded 30% due to increased response. The only associated sample was an MSD; no further action was taken.

#### Method Blank

Analysis of the method blank performed on 9/14/2007 resulted in the detection of methylene chloride. The only associated sample was an MSD; no further action was taken.

# LAUCKS TESTING LABORATORIES

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Seattle, WA 98108

## Quality Control Analyses:

Analysis of the blank spike S091007MVOWM1 yielded a low recovery for dichlorodifluoromethane.

Analysis of the blank spike S091407MVOWB2 yielded a high recovery for 2,2-dichloropropane.

Because the instrument stopped before analyzing the MSD on sample MW-3-2, the MS/MSD for this sample were analyzed on separate days, and the MSD was outside the holding time. The analysis for the MSD yielded recoveries that were out of control for several analytes and several RPDs for the MS/MSD exceeded the control limit. The low recoveries in the MSD were probably due to loss of volatiles in the spiking solution. All analyte recoveries were in control in the MS and because there was not enough sample to prepare another set of MS/MSDs, reanalysis was not performed.

## **GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

### ICP Metals:

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

## **SPECIFIC REMARKS ON INORGANIC ANALYSES:**

### Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

### Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

### Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None

## LAUCKS TESTING LABORATORIES

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Seattle, WA 98108

### ICP-MS Metals:

The scandium internal standard percent recovery for samples MW-4-3, MW-4-1, and DUP-1-3Q07 fell outside of the suggested control limits of 30-120%. Chromium is associated with this internal standard. Therefore, results for chromium for samples MW-4-3, MW-4-1, and DUP-1-3Q07 were reported from a 2 fold dilution where the scandium internal standard is within the control limits.

### Miscellaneous Inorganics:

No comments.

## LAUCKS TESTING LABORATORIES

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### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
  - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
  - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
  - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
  - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
  - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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### INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
  - E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
  - N Spiked sample recovery not within control limits.
  - \* Duplicate analysis not within control limits.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.



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RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,



Kara Godineaux  
Project Manager

9/27/07  
(DATE)



Harry Romberg  
Quality Assurance Officer

9/27/07  
(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

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**ATTACHMENT A**

Chain-of-Custody Copies

LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG									
Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)	TurMet for 200.7/200.8 TurMet		
JPL58-001	08/29/2007 09:00 AM	08/28/2007 07:50 AM	MW-4-3	IN	IN	IN	A-		
JPL58-002	08/29/2007 09:00 AM	08/28/2007 08:15 AM	MW-4-2	IN	IN	IN	A-		
JPL58-003	08/29/2007 09:00 AM	08/28/2007 08:49 AM	MW-4-1	IN	IN	IN	A-		
JPL58-004	08/29/2007 09:00 AM	08/28/2007 12:00 AM	DUPE-1-3Q07	IN	IN	IN	A-		
JPL58-005	08/29/2007 09:00 AM	08/28/2007 08:32 AM	EB-6-8/28/07	IN	IN	IN	A-		
JPL58-006	08/29/2007 09:00 AM	08/28/2007 12:00 AM	TB-6-8/28/07			IN			
JPL58-007	08/29/2007 09:00 AM	08/28/2007 10:11 AM	MW-3-4	IN	IN	IN	A-		
JPL58-008	08/29/2007 09:00 AM	08/28/2007 10:41 AM	MW-3-3	IN	IN	IN	A-		
*JPL58-009	08/29/2007 09:00 AM	08/28/2007 11:12 AM	MW-3-2	IN	IN	IN	A-		
Approved By:	<i>Patricia Godwin</i>			On: 8/30/07					
Notes:	Samples identified with a '*' client has requested QC for								
LEGEND: -:Started, +:Completed, IN:Logged In, P:Preparation, A:Analysis, X:Cancelled, PL:Pre-logged									
FORM LTL-PM-8.0									





**FORM SUMMARY**

SDG # JPL58

Volatiles Analysis

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL58-001  
 Lab File ID: M0909013.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/09/2007 16:18  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.35	J

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-3

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin

SDG No.: JPL58 Run Sequence: R021339

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL58-001

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: M0909013.D

Level: (LOW/MED) \_\_\_\_\_ Date Collected: 08/28/2007

% Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/09/2007 16:18

GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
10061-02-	trans-1,3-Dichloropropene	0.50		U
79-00-5	1,1,2-Trichloroethane	0.50		U
127-18-4	Tetrachloroethene	0.50		U
142-28-9	1,3-Dichloropropane	0.50		U
124-48-1	Dibromochloromethane	0.50		U
106-93-4	1,2-Dibromoethane	0.50		U
108-90-7	Chlorobenzene	0.50		U
100-41-4	Ethylbenzene	1.8		
630-20-6	1,1,1,2-Tetrachloroethane	0.50		U
179601-23	m,p-Xylene	1.0		U
95-47-6	o-Xylene	0.50		U
100-42-5	Styrene	0.36		J
75-25-2	Bromoform	0.50		U
98-82-8	Isopropylbenzene	0.50		U
79-34-5	1,1,2,2-Tetrachloroethane	0.50		U
103-65-1	n-Propylbenzene	0.50		U
108-86-1	Bromobenzene	0.50		U
96-18-4	1,2,3-Trichloropropane	0.50		U
95-49-8	2-Chlorotoluene	0.50		U
108-67-8	1,3,5-Trimethylbenzene	0.50		U
106-43-4	4-Chlorotoluene	0.50		U
98-06-6	tert-Butylbenzene	0.50		U
95-63-6	1,2,4-Trimethylbenzene	0.50		U
135-98-8	sec-Butylbenzene	0.50		U
99-87-6	4-Isopropyltoluene	0.50		U
541-73-1	1,3-Dichlorobenzene	0.50		U
106-46-7	1,4-Dichlorobenzene	0.50		U
104-51-8	n-Butylbenzene	0.50		U
95-50-1	1,2-Dichlorobenzene	0.50		U



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL58-001  
 Lab File ID: M0909013.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/09/2007 16:18  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL58-002  
 Lab File ID: M0909014.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/09/2007 16:55  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.39	J
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.65	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL58-002  
 Lab File ID: M0909014.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/09/2007 16:55  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.44	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL58-002  
 Lab File ID: M0909014.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/09/2007 16:55  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL58-003  
 Lab File ID: M0909015.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/09/2007 17:32  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.95	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.56	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.0	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-1

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL58

Run Sequence: R021339

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL58-003

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0909015.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/09/2007 17:32

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL58-003  
 Lab File ID: M0909015.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/09/2007 17:32  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-1-3Q07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL58

Run Sequence: R021376

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL58-004

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0910007.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/10/2007 11:14

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.90	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.57	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.98	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-1-3Q07

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin  
 SDG No.: JPL58 Run Sequence: R021376  
 Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL58-004  
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: M0910007.D  
 Level: (LOW/MED) \_\_\_\_\_ Date Collected: 08/28/2007  
 % Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/10/2007 11:14  
 GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-1-3Q07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL58

Run Sequence: R021376

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL58-004

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0910007.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/10/2007 11:14

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-6-8/28/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL58

Run Sequence: R021376

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL58-005

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0910008.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/10/2007 11:51

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-6-8/28/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-005  
 Lab File ID: M0910008.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/10/2007 11:51  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-6-8/28/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-005  
 Lab File ID: M0910008.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/10/2007 11:51  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-6-8/28/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-006  
 Lab File ID: M0910009.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/10/2007 12:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-6-8/28/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL58

Run Sequence: R021376

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL58-006

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0910009.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/10/2007 12:34

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-6-8/28/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-006  
 Lab File ID: M0910009.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/10/2007 12:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-007  
 Lab File ID: M0910010.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/10/2007 13:11  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-007  
 Lab File ID: M0910010.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/10/2007 13:11  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.30	J
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-007  
 Lab File ID: M0910010.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/10/2007 13:11  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-008  
 Lab File ID: M0910011.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/10/2007 13:48  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-008  
 Lab File ID: M0910011.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/10/2007 13:48  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.35	J
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-008  
 Lab File ID: M0910011.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/10/2007 13:48  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL58

Run Sequence: R021376

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL58-009

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0910012.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/10/2007 14:14

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.90	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	3.3	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.3	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL58  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-009  
 Lab File ID: M0910012.D  
 Date Collected: 08/28/2007  
 Date/Time Analyzed: 09/10/2007 14:14  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL58

Run Sequence: R021376

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL58-009

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0910012.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/28/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/10/2007 14:14

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	<u>ug/L</u>	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

**FORMS SUMMARY**

**JPL58**

**Metals Data**

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-4-3

Lab Name: Laucks LaboratoriesContract: JPL Groundwater MonitorinLab Code: LAUCKSSDG No.: JPL58Matrix (soil/water): WaterLab Sample ID: JPL58-001Level (low/med): LOWDate Received: 08/29/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	2.00	U		M	R021348

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: NoComment \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-4-2

Lab Name: Laucks LaboratoriesContract: JPL Groundwater MonitorinLab Code: LAUCKSSDG No.: JPL58Matrix (soil/water): WaterLab Sample ID: JPL58-002Level (low/med): LOWDate Received: 08/29/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	13.5			M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-4-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL58

Matrix (soil/water): Water

Lab Sample ID: JPL58-003

Level (low/med): LOW

Date Received: 08/29/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	2.98			M	R021348

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_

Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-1-3Q07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL58

Matrix (soil/water): Water

Lab Sample ID: JPL58-004

Level (low/med): LOW

Date Received: 08/29/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	2.59			M	R021348

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_

Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-6-8/28/07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL58

Matrix (soil/water): Water

Lab Sample ID: JPL58-005

Level (low/med): LOW

Date Received: 08/29/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U		M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-3-4

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL58

Matrix (soil/water): Water

Lab Sample ID: JPL58-007

Level (low/med): LOW

Date Received: 08/29/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	11.3			M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-3-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL58

Matrix (soil/water): Water

Lab Sample ID: JPL58-008

Level (low/med): LOW

Date Received: 08/29/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	8.71			M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-3-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL58

Matrix (soil/water): Water

Lab Sample ID: JPL58-009

Level (low/med): LOW

Date Received: 08/29/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	12.4			M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**FORMS SUMMARY**

**JPL58**

**Miscellaneous Inorganics**

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL58  
Sample Number: MW-4-3 Date/Time Collected: 08/28/2007 07:50  
Lab Sample ID: JPL58-001 Date/Time Received: 08/29/2007 09:00  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/06/2007	09/07/2007	R021266

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL58  
Sample Number: MW-4-2 Date/Time Collected: 08/28/2007 08:15  
Lab Sample ID: JPL58-002 Date/Time Received: 08/29/2007 09:00  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/06/2007	09/07/2007	R021266

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL58  
Sample Number: MW-4-1RX-RX Date/Time Collected: 08/28/2007 08:49  
Lab Sample ID: JPL58-003 Date/Time Received: 08/29/2007 09:00  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	10	530		10	1.4	09/10/2007	09/11/2007	R021366

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL58  
Sample Number: DUPE-1-3Q07RX-RX Date/Time Collected: 08/28/2007 00:00  
Lab Sample ID: JPL58-004 Date/Time Received: 08/29/2007 09:00  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	10	530		10	1.4	09/10/2007	09/11/2007	R021366

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL58  
Sample Number: EB-6-8/28/07 Date/Time Collected: 08/28/2007 08:32  
Lab Sample ID: JPL58-005 Date/Time Received: 08/29/2007 09:00  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	09/06/2007	09/07/2007	R021266



Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL58  
Sample Number: MW-3-4 Date/Time Collected: 08/28/2007 10:11  
Lab Sample ID: JPL58-007 Date/Time Received: 08/29/2007 09:00  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	09/06/2007	09/07/2007	R021266

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL58  
Sample Number: MW-3-3 Date/Time Collected: 08/28/2007 10:41  
Lab Sample ID: JPL58-008 Date/Time Received: 08/29/2007 09:00  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	09/06/2007	09/07/2007	R021266

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL58  
Sample Number: MW-3-2 Date/Time Collected: 08/28/2007 11:12  
Lab Sample ID: JPL58-009 Date/Time Received: 08/29/2007 09:00  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	49		2.0	0.28	09/06/2007	09/07/2007	R021266

**TIC ANALYSIS**

SDG # JPL58

Volatiles Analysis

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-4-3

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL58  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL58-001  
 Lab File ID: M0909013.D  
 Date Collected: 08/29/2007 <sup>28 JAN 9/27/07</sup>  
 Date Analyzed: 09/09/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-4-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL58  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL58-002  
 Lab File ID: M0909014.D  
 Date Collected: 08/29/2007 <sup>28 AMH 9/27/07</sup>  
 Date Analyzed: 09/09/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-4-1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL58  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: JPL58-003  
 Lab File ID: M0909015.D  
 Date Collected: 08/29/2007 <sup>28 QNH 9/27/07</sup>  
 Date Analyzed: 09/09/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUPE-1-3Q07

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL58  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-004  
 Lab File ID: M0910007.D  
 Date Collected: 08/29/2007 <sup>28 QM# 9/27/07</sup>  
 Date Analyzed: 09/10/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:



1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-6-8/28/07

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL58  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-005  
 Lab File ID: M0910008.D  
 Date Collected: 08/29/2007 <sup>28 GMT 9/27/07</sup>  
 Date Analyzed: 09/10/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-6-8/28/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL58

Run Sequence: R021376

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL58-006

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0910009.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/29/2007 <sup>28 QM+ 9/27/07</sup>

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/10/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-3-4

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL58  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-007  
 Lab File ID: M0910010.D  
 Date Collected: 08/29/2007 <sup>28 QNH 9/27/07</sup>  
 Date Analyzed: 09/10/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-3-3

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL58

Run Sequence: R021376

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL58-008

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0910011.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/29/2007 <sup>28</sup> QNH 9/27/07

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/10/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-3-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL58  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021376  
 Lab Sample ID: JPL58-009  
 Lab File ID: M0910012.D  
 Date Collected: 08/29/2007 <sup>28 OLVH 9/27/07</sup>  
 Date Analyzed: 09/10/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B090907MVOWM2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL58  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 25.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021339  
 Lab Sample ID: B090907MVOWM2  
 Lab File ID: M0909007.D  
 Date Collected: \_\_\_\_\_  
 Date Analyzed: 09/09/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B091007MVOWM1

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL58

Run Sequence: R021376

Matrix: (SOIL/WATER) Water

Lab Sample ID: B091007MVOWM1

Sample wt/vol: 25.0 (g/mL) mL

Lab File ID: M0910005.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/10/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B091407MVOWB1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL58  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: B091407MVOWB1  
 Lab File ID: B0914020.D  
 Date Collected: \_\_\_\_\_  
 Date Analyzed: 09/14/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:



**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL59**

**September 27, 2007**

# LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL59  
Date of Report: 9/27/2007

## SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

### Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Laucks Sample Identification</u>	<u>Testing Analytical Request</u>
MW-23-4	JPL59-001	VOA/MET
MW-23-3	JPL59-002	VOA/MET/PER
MW-23-2	JPL59-003	VOA/MET/PER
MW-21-1	JPL59-004	VOA/MET/PER
DUPE-2-3Q07	JPL59-005	VOA/MET/PER
EB-7-8/29/07	JPL59-006	VOA/MET/PER
TB-7-8/29/07	JPL59-007	VOA

### Analytical Request Key:

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)

### Sample Receipt Comments:

The following discrepancies were noted in association with the receipt of these samples.

One of three volatiles bottles submitted for JPL59-004 (MW-23-1) contained bubbles of less than 1/4 inch in size. Two of two volatiles bottles submitted for JPL59-007 (TB-7-8/29/07) contained bubbles of less than 1/4 inch in size. The temperature blank was measured at a temperature below the control limit of  $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ . The client was notified of this discrepancy on August 30, 2007 via email.

### GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

### Holding Time Compliance:

#### *Volatile Organic Compounds:*

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

### Volatiles Fraction:

#### Continuing Calibration Verification (CCV):

In the CCV performed on 9/12/07 the %D value for 2,2-dichloropropane exceeded 20% due to increased response. This analyte was not detected in the associated samples; no further action was taken.

#### Quality Control Analyses:

Analysis of the blank spike yielded a recovery for 2,2-dichloropropane that exceeded the control limits. All other recoveries were in control; no further action was taken.

### **GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

#### ICP Metals:

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

### **SPECIFIC REMARKS ON INORGANIC ANALYSES:**

#### Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None

ICP Metals:

Samples in this SDG were prepared along with other client samples and sample-level QC was performed on a batch-level basis. Although samples from this SDG were not selected for sample-level QC, comments regarding matrix spike/matrix spike duplicate recoveries and serial dilutions apply to all samples digested and analyzed together. Sample level QC and analytical time can be seen on Form 14. For QC results, see SDG JPL55 or the raw data provided.

The serial dilution for the element chromium did not agree within 10% of the original determination after correction for dilution for sample MW-14-3 for SDG JPL55. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms 1 and 9.

Miscellaneous Inorganics:

No comments.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
  - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
  - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
  - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
  - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
  - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
- E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
- N Spiked sample recovery not within control limits.
- \* Duplicate analysis not within control limits.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

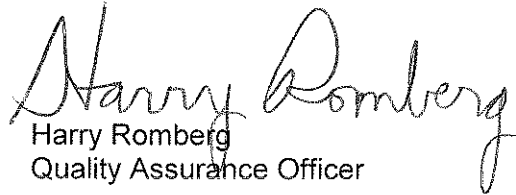
Respectfully submitted,



Kara Godineaux  
Project Manager

9/27/07

(DATE)



Harry Romberg  
Quality Assurance Officer

9/27/07

(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

**LAUCKS TESTING LABORATORIES**

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Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies



LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG

Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	314.0 Perchlorate	524.2 Volatile Organics + TICS (JPL Special list)	TurMet for 200.7/200.8 TurMet
JPL59-001	08/30/2007 09:30 AM	08/29/2007 07:32 AM	MW-23-4	IN			
JPL59-002	08/30/2007 09:30 AM	08/29/2007 07:54 AM	MW-23-3	IN	IN	IN	IN
JPL59-003	08/30/2007 09:30 AM	08/29/2007 08:20 AM	MW-23-2	IN	IN	IN	IN
JPL59-004	08/30/2007 09:30 AM	08/29/2007 09:06 AM	MW-21-1	IN	IN	IN	IN
JPL59-005	08/30/2007 09:30 AM	08/29/2007 12:00 AM	DUPE-2-3007	IN	IN	IN	IN
JPL59-006	08/30/2007 09:30 AM	08/29/2007 08:54 AM	EB-7-8/29/07	IN	IN	IN	IN
JPL59-007	08/30/2007 09:30 AM	08/29/2007 12:00 AM	TB-7-8/29/07			IN	

Approved By:

*Mark J. Williams*

On:

*8/30/07*

Samples identified with a '\*' client has requested QC for

LEGEND: -:Started, +:Completed, IN:Logged In, P:Preparation, A:Analysis, X:Cancelled, PL:Pre-logged

FORM LTL-PM-8.0

THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

3909

COMPANY: BATTELLE  
 ADDRESS: 3990 OLD TOWN AVE, C-105  
SAV DIEGO, CA 92110  
 ATTENTION: DAVID COLLIER  
 PROJECT NAME: SPL GW MON. 3807  
 PROJECT CONTACT: DAVID COLLIER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/P.O. NO.: 6586090/210640

CHAIN OF CUSTODY RECORD  
 43075

SDG # JPL59  
 PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_

SUBMITTED AT: \_\_\_\_\_



940 South Haney St. Seattle, WA 98108 (206) 767-5060 FAX 767-5063  
 1180 Lakeway Ave. Yakima, WA 98902 (509) 248-6995 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS
VOL (524.2)	
TOTAL G (200.8)	
CLO4 (314.0)	

2

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

LAB. SA#	SAMPLE ID / LOCATION	DATE	TIME	MATRIX	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1	MW-23-4	8/29/07	0732	W	1		
2	MW-23-3		0754		5 X X X		
3	MW-23-2		820		X X X		
4	MW-23-1		906		X X X		
5	DUPE-2-3007				X X X		Duplicate
6	EB-7-8/29/07		854		X X X		EMPTY BLANK
7	TB-7-8/29/07				X		ZIP BLANK

A. A standard turnaround time is assumed unless otherwise marked.

B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS:

1. USE ONE LINE PER SAMPLE
2. BE SPECIFIC IN TEST REQUESTS
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE

BILLING INFORMATION (DIFFERENT THAN ABOVE)

NAME: BATTELLE  
 ATTN: GERALD TORRINO  
 ADDRESS: 505 KINLO AVE.  
 CITY, STATE, ZIP: COLUMBUS, OH 43201

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

RELIQUISHED BY (SIGN AND PRINT)

DATE

RECEIVED BY (SIGN AND PRINT)

DATE

[Signature] / MARCO FREUND

8/29/07  
1300

[Signature]

8/30/07  
09:30

TOTAL NO. OF CONTAINERS

TURNAROUND REQUEST  
 STD. 10-14 WORKING DAYS

24-48 HRS. (100% SUR)

72 HRS. (75% SUR)

5 DAYS (60% SUR)

OTHER

TEMP

CUSTODY SEAL:  Y  N  N/A

Finance Charges and/or Collection Fees may be applied to delinquent accounts.

FINAL REPORT COPY

# **FORMS SUMMARY**

**SDG# JPL59**

**Volatiles**

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL59  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-002  
 Lab File ID: B0912014.D  
 Date Collected: 08/29/2007  
 Date/Time Analyzed: 09/12/2007 12:39  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL59  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-002  
 Lab File ID: B0912014.D  
 Date Collected: 08/29/2007  
 Date/Time Analyzed: 09/12/2007 12:39  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23-3

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL59

Run Sequence: R021434

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL59-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912014.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/29/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/12/2007 12:39

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-23-3

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL59

Run Sequence: R021434

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL59-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912014.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007 <sup>27</sup> 9/14/07 *LA*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/12/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL59  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-003  
 Lab File ID: B0912015.D  
 Date Collected: 08/29/2007  
 Date/Time Analyzed: 09/12/2007 13:05  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.42	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.46	J
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL59

Run Sequence: R021434

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL59-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912015.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/29/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/12/2007 13:05

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.39	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL59  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-003  
 Lab File ID: B0912015.D  
 Date Collected: 08/29/2007  
 Date/Time Analyzed: 09/12/2007 13:05  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-23-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL59  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-003  
 Lab File ID: B0912015.D  
 Date Collected: 08/30/2007 <sup>29</sup> *9/14/07 con*  
 Date Analyzed: 09/12/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL59  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-004  
 Lab File ID: B0912016.D  
 Date Collected: 08/29/2007  
 Date/Time Analyzed: 09/12/2007 13:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.46	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.99	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL59  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-004  
 Lab File ID: B0912016.D  
 Date Collected: 08/29/2007  
 Date/Time Analyzed: 09/12/2007 13:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.66	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL59  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-004  
 Lab File ID: B0912016.D  
 Date Collected: 08/29/2007  
 Date/Time Analyzed: 09/12/2007 13:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21-1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL59  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-004  
 Lab File ID: B0912016.D  
 Date Collected: 08/29/2007 *9/14/07 JPL*  
 Date Analyzed: 09/12/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
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Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-2-3Q07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL59

Run Sequence: R021434

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL59-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912017.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/29/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/12/2007 13:56

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.46	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.48	J
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-2-3Q07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL59  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-005  
 Lab File ID: B0912017.D  
 Date Collected: 08/29/2007  
 Date/Time Analyzed: 09/12/2007 13:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.36	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-2-3Q07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL59  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-005  
 Lab File ID: B0912017.D  
 Date Collected: 08/29/2007  
 Date/Time Analyzed: 09/12/2007 13:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUPE-2-3Q07

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL59  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-005  
 Lab File ID: B0912017.D  
 Date Collected: 08/20/2007 <sup>29</sup> 9/14/07  
 Date Analyzed: 09/12/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-7-8/29/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL59

Run Sequence: R021434

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL59-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912018.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/29/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/12/2007 14:22

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-7-8/29/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL59  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-006  
 Lab File ID: B0912018.D  
 Date Collected: 08/29/2007  
 Date/Time Analyzed: 09/12/2007 14:22  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-7-8/29/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL59  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-006  
 Lab File ID: B0912018.D  
 Date Collected: 08/29/2007  
 Date/Time Analyzed: 09/12/2007 14:22  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-7-8/29/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL59

Run Sequence: R021434

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL59-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912018.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007 <sup>29</sup> 9/14/07

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/12/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
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Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-7-8/29/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL59  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL59-007  
 Lab File ID: B0912007.D  
 Date Collected: 08/29/2007  
 Date/Time Analyzed: 09/12/2007 09:09  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-7-8/29/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL59

Run Sequence: R021434

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL59-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912007.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/29/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/12/2007 09:09

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-7-8/29/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL59  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R02i434  
 Lab Sample ID: JPL59-007  
 Lab File ID: B0912007.D  
 Date Collected: 08/29/2007  
 Date/Time Analyzed: 09/12/2007 09:09  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-7-8/29/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL59

Run Sequence: R021434

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL59-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912007.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/20/2007 *29 9/14/07 WJW*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/12/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

**FORMS SUMMARY**

**JPL59**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-23-4

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL59

Matrix (soil/water): Water

Lab Sample ID: JPL59-001

Level (low/med): LOW

Date Received: 08/30/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	10.6		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-23-3

Lab Name: Laucks LaboratoriesContract: JPL Groundwater MonitorinLab Code: LAUCKSSDG No.: JPL59Matrix (soil/water): WaterLab Sample ID: JPL59-002Level (low/med): LOWDate Received: 08/30/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	11.7		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-23-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL59

Matrix (soil/water): Water

Lab Sample ID: JPL59-003

Level (low/med): LOW

Date Received: 08/30/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	14.6		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL59

Matrix (soil/water): Water

Lab Sample ID: JPL59-004

Level (low/med): LOW

Date Received: 08/30/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	19.8		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-2-3Q07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL59

Matrix (soil/water): Water

Lab Sample ID: JPL59-005

Level (low/med): LOW

Date Received: 08/30/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	14.7		E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-7-8/29/07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL59

Matrix (soil/water): Water

Lab Sample ID: JPL59-006

Level (low/med): LOW

Date Received: 08/30/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U	E	M	R021307

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**FORMS SUMMARY**

**JPL59**

**Miscellaneous Inorganics**

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL59  
Sample Number: MW-23-3 Date/Time Collected: 08/29/2007 07:54  
Lab Sample ID: JPL59-002 Date/Time Received: 08/30/2007 09:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/07/2007	09/08/2007	R021318

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL59  
Sample Number: MW-23-2 Date/Time Collected: 08/29/2007 08:20  
Lab Sample ID: JPL59-003 Date/Time Received: 08/30/2007 09:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/07/2007	09/08/2007	R021318

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL59  
Sample Number: MW-21-1 Date/Time Collected: 08/29/2007 09:06  
Lab Sample ID: JPL59-004 Date/Time Received: 08/30/2007 09:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/07/2007	09/08/2007	R021318

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL59  
Sample Number: DUPE-2-3Q07 Date/Time Collected: 08/29/2007 00:00  
Lab Sample ID: JPL59-005 Date/Time Received: 08/30/2007 09:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/07/2007	09/08/2007	R021318

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL59  
Sample Number: EB-7-8/29/07 Date/Time Collected: 08/29/2007 08:54  
Lab Sample ID: JPL59-006 Date/Time Received: 08/30/2007 09:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	09/07/2007	09/08/2007	R021318



**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL60**

**September 27, 2007**

# LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL60  
Date of Report: 9/27/2007

## **SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:**

### **Sample Receipt and Identification:**

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<b><u>Client Sample Identification</u></b>	<b><u>Laucks Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-11-4	JPL60-001	VOA/PER
MW-11-3	JPL60-002	VOA/MET/PER
MW-11-2	JPL60-003	VOA/MET/PER
MW-11-1	JPL60-004	VOA/MET/PER/ANIONS
MW-22-3	JPL60-005	VOA/MET/PER
MW-22-2	JPL60-006	VOA/MET/PER
MW-22-1	JPL60-007	VOA/MET/PER
EB-8-8/30/07	JPL60-008	VOA/MET/PER
TB-8-8/30/07	JPL60-009	VOA

### **Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)  
ANIONS = Chloride, Nitrate, Nitrite, Sulfate, Ortho phosphorus (300.0)

### **Sample Receipt Comments:**

There were no anomalies associated with the receipt of these samples.

## **GENERAL REMARKS ON ORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

### **Manual Integrations:**

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

### Holding Time Compliance:

#### *Volatile Organic Compounds:*

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

### Volatiles Fraction:

#### Continuing Calibration Verification (CCV):

In the CCV performed on 9/12/07 the %D value for 2,2-dichloropropane exceeded 20% due to increased response.

Analysis of the CCV performed on 9/13/07 the % D values for dichlorodifluoromethane and 2,2-dichloropropane exceeded 20% due to increased response.

None of these analytes were detected in the associated samples; no further action was taken.

#### Quality Control Analyses:

MS/MSD analysis requested on sample MW-22-2 could not be performed due to insufficient amount of sample provided.

Analysis of the blank spike S091207MVOWB1 yielded a recovery for 2,2-dichloropropane that exceeded the control limit. Because all other recoveries were in control, no further action was taken.

### **GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

#### ICP Metals:

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

# LAUCKS TESTING LABORATORIES

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Seattle, WA 98108

## SPECIFIC REMARKS ON INORGANIC ANALYSES:

### Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

### Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

### Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None
Chloride	28 days	None
Sulfate	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None

### ICP-MS Metals:

No comments.

### Miscellaneous Inorganics:

For run sequence R021077, the second and third continuing calibration verifications wer outside the established control limits for the nitrate and nitrite analysis. No reported samples were bracketed by these CCVs. Therefore, no further action was taken.

For run sequence R021077, the matrix spike recovery was outside the established control limits for the chloride and sulfate analysis. All other quality control elements were within control limits for chloride and sulfate. Therefore, no further action was taken.

## LAUCKS TESTING LABORATORIES

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Seattle, WA 98108

### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
  - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
  - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
  - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
  - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
  - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

**LAUCKS TESTING LABORATORIES**

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Seattle, WA 98108

INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
  - E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
  - N Spiked sample recovery not within control limits.
  - \* Duplicate analysis not within control limits.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,



Kara Godineaux  
Project Manager

9/27/07

(DATE)



Harry Romberg  
Quality Assurance Officer

9/27/07

(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies



LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG

Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	300.0 Low Level NO3, NO2, Cl, SO4, OP04	314.0 Perchlorate	365.2 Ortho-Phosphorus as P, Water	524.2 Volatile Organics + TICs (JPL Special list)
JPL60-001	08/31/2007 09:30 AM	08/30/2007 10:12 AM	MW-11-4	IN		IN		IN
JPL60-002	08/31/2007 09:30 AM	08/30/2007 10:38 AM	MW-11-3	IN		IN		IN
JPL60-003	08/31/2007 09:30 AM	08/30/2007 11:03 AM	MW-11-2	IN		IN		IN
JPL60-004	08/31/2007 09:30 AM	08/30/2007 11:36 AM	MW-11-1	IN	A-	IN	IN	IN
JPL60-005	08/31/2007 09:30 AM	08/30/2007 08:17 AM	MW-22-3	IN		IN		IN
*JPL60-006	08/31/2007 09:30 AM	08/30/2007 08:43 AM	MW-22-2	IN		IN		IN
JPL60-007	08/31/2007 09:30 AM	08/30/2007 09:10 AM	MW-22-1	IN		IN		IN
JPL60-008	08/31/2007 09:30 AM	08/30/2007 08:58 AM	EB-8- 8/30/07	IN		IN		IN
JPL60-009	08/31/2007 09:30 AM	08/30/2007 12:00 AM	TB-8- 8/30/07					IN

Approved By:

*[Handwritten Signature]*

On:

*8/31/07*

Samples identified with a '\*' client has requested QC for

LEGEND: -:Started, +:Completed, IN:Logged In, P:Preparation, A:Analysis, X:Cancelled, PL:Pre-logged

FORM LTL-PM-8.0

3933

THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

COMPANY: BATELLE  
 ADDRESS: 3990 OLD TRAIL AVE., C-205  
SAN DIEGO, CA 92110  
 ATTENTION: DAVID CONNER  
 PROJECT NAME: SPL GW NWJ 3007  
 PROJECT CONTACT: DAVID CONNER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/PO. NO.: 6486090/210640

CHAIN OF CUSTODY RECORD  
 43081

SDG # JPL60

PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_ SUBMITTED AT: \_\_\_\_\_

**Lauck's**  
 Testing Laboratories, Inc.  
 940 South Hanes St. Suite WA 98106 (206) 767-5060 FAX 767-5063  
 1106 Ledwith Ave. Tallinn, VA 98902 (509) 248-4695 FAX 452-1255

MATRIX: WATER, SOIL OR SPECIFY  
 NO. OF CONTAINERS  
VOL (524.2)  
TOTAL CC (600.8)  
CLD (314.0)  
CL (1.52) MINUTE SAMPLES  
D. FILTER NAME (600.8)

TESTS TO PERFORM

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

LAB/SAM	SAMPLE ID / LOCATION	DATE	TIME	MATRIX	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
001	MW-11-4	8/30/07	1012	W	4	X	
002	MW-11-3		1038		5	X X X X	
003	MW-11-2		1103		5	X X X	
009	MW-11-1		1136		5	X X X X	

A. A standard turnaround time is assumed unless otherwise marked.  
 B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS  
 1. USE ONE LINE PER SAMPLE.  
 2. BE SPECIFIC IN TEST REQUESTS.  
 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

BILLING INFORMATION (IF DIFFERENT THAN ABOVE)  
 NAME: BATELLE  
 ATTN: CEZELIA TRAVIS  
 ADDRESS: 505 GUNV AVE.  
 CITY, STATE, ZIP: COLUMBUS OH 43201

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TOTAL NO. OF CONTAINERS  
 TURNAROUND REQUEST  
 STD. 10-14 WORKING DAYS  
 24-48 HRS. (100% SUR)  
 72 HRS. (75% SUR)  
 5 DAYS (60% SUR)  
 OTHER: \_\_\_\_\_  
 TEMP: \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  NA

RELINQUISHED BY (SIGN AND PRINT): David Chang  
 DATE/TIME: 8/30/07 1330  
 RECEIVED BY (SIGN AND PRINT): David Chang  
 DATE/TIME: 8/30/07 930



# **FORMS SUMMARY**

**SDG# JPL60**

**Volatiles**

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-4

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021434

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912011.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/12/2007 11:22

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-4

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021434

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912011.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/12/2007 11:22

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.40	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-4

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021434

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912011.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/12/2007 11:22

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-11-4

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021434

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL60-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912011.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 30 9/14/07  
08/21/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/12/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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19				
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26				
27				
28				
29				
30				

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-3

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021434

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912012.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/12/2007 11:48

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-3

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021434

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912012.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/12/2007 11:48

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-3

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021434

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912012.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/12/2007 11:48

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-11-3

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021434

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL60-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912012.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/21/2007 <sup>30</sup> 9/14/07 *LPW*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/12/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
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28				
29				
30				

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021434

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912013.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/12/2007 12:13

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL60  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021434  
 Lab Sample ID: JPL60-003  
 Lab File ID: B0912013.D  
 Date Collected: 08/30/2007  
 Date/Time Analyzed: 09/12/2007 12:13  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021434

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912013.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/12/2007 12:13

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-11-2

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021434

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL60-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0912013.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/31/2007 <sup>30</sup> 9/14/07 *Len*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/12/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL60  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021523  
 Lab Sample ID: JPL60-004  
 Lab File ID: B0913026.D  
 Date Collected: 08/30/2007  
 Date/Time Analyzed: 09/13/2007 18:14  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-1

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913026.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/13/2007 18:14

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL60  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021523  
 Lab Sample ID: JPL60-004  
 Lab File ID: B0913026.D  
 Date Collected: 08/30/2007  
 Date/Time Analyzed: 09/13/2007 18:14  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-11-1

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL60-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913026.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/31/2007 <sup>30</sup> 9/14/07 *cm*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/13/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
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11					
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Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL60  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021523  
 Lab Sample ID: JPL60-005  
 Lab File ID: B0913027.D  
 Date Collected: 08/30/2007  
 Date/Time Analyzed: 09/13/2007 18:39  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-3

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913027.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/13/2007 18:39

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-3
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Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913027.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/13/2007 18:39

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-22-3

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL60-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913027.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/21/2007 <sup>3P</sup> 9/14/07 LPM

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/13/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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29				
30				

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL60  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021523  
 Lab Sample ID: JPL60-006  
 Lab File ID: B0913028.D  
 Date Collected: 08/30/2007  
 Date/Time Analyzed: 09/13/2007 19:05  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913028.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/13/2007 19:05

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL60  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021523  
 Lab Sample ID: JPL60-006  
 Lab File ID: B0913028.D  
 Date Collected: 08/30/2007  
 Date/Time Analyzed: 09/13/2007 19:05  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-22-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL60  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL)      mL  
 Level: (LOW/MED)       
 % Moisture: not dec.       
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume:      (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021523  
 Lab Sample ID: JPL60-006  
 Lab File ID: B0913028.D  
 Date Collected: 08/31/2007 <sup>30</sup> 9/14/07  
 Date Analyzed: 09/13/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume:      (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-1

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913029.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/13/2007 19:31

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.39	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL60  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021523  
 Lab Sample ID: JPL60-007  
 Lab File ID: B0913029.D  
 Date Collected: 08/30/2007  
 Date/Time Analyzed: 09/13/2007 19:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.6	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-1

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913029.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/13/2007 19:31

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-22-1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL60  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021523  
 Lab Sample ID: JPL60-007  
 Lab File ID: B0913029.D  
 Date Collected: 08/31/2007 *9/14/07 LPM*  
 Date Analyzed: 09/13/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
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29					
30					

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-8-8/30/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-008

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913030.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/13/2007 19:57

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-8-8/30/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-008

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913030.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/13/2007 19:57

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-8-8/30/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-008

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913030.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/13/2007 19:57

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-8-8/30/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL60-008

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913030.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/31/2007 *9/14/07*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/13/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
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22					
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25					
26					
27					
28					
29					
30					

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-8-8/30/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-009

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913025.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/13/2007 17:48

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-8-8/30/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL60  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021523  
 Lab Sample ID: JPL60-009  
 Lab File ID: B0913025.D  
 Date Collected: 08/30/2007  
 Date/Time Analyzed: 09/13/2007 17:48  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-8-8/30/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL60-009

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913025.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/30/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/13/2007 17:48

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-8-8/30/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL60

Run Sequence: R021523

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL60-009

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0913025.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/31/2007 <sup>20</sup> 9/14/07 *LP*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/13/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:



**FORMS SUMMARY**

**JPL60**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-11-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL60

Matrix (soil/water): Water

Lab Sample ID: JPL60-002

Level (low/med): LOW

Date Received: 08/31/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	11.0			M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-11-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL60

Matrix (soil/water): Water

Lab Sample ID: JPL60-003

Level (low/med): LOW

Date Received: 08/31/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	11.9			M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-11-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL60

Matrix (soil/water): Water

Lab Sample ID: JPL60-004

Level (low/med): LOW

Date Received: 08/31/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	15.8			M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-22-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL60

Matrix (soil/water): Water

Lab Sample ID: JPL60-005

Level (low/med): LOW

Date Received: 08/31/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	14.7			M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-22-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL60

Matrix (soil/water): Water

Lab Sample ID: JPL60-006

Level (low/med): LOW

Date Received: 08/31/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	13.6			M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-22-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL60

Matrix (soil/water): Water

Lab Sample ID: JPL60-007

Level (low/med): LOW

Date Received: 08/31/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	17.4			M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-8-8/30/07

Lab Name: Laucks LaboratoriesContract: JPL Groundwater MonitorinLab Code: LAUCKSSDG No.: JPL60Matrix (soil/water): WaterLab Sample ID: JPL60-008Level (low/med): LOWDate Received: 08/31/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U		M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_



**FORMS SUMMARY**

**JPL60**

**Miscellaneous Inorganics**

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL60  
Sample Number: MW-11-4 Date/Time Collected: 08/30/2007 10:12  
Lab Sample ID: JPL60-001 Date/Time Received: 08/31/2007 09:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	09/10/2007	09/11/2007	R021366

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL60  
Sample Number: MW-11-3 Date/Time Collected: 08/30/2007 10:38  
Lab Sample ID: JPL60-002 Date/Time Received: 08/31/2007 09:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/10/2007	09/11/2007	R021366

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL60  
Sample Number: MW-11-2 Date/Time Collected: 08/30/2007 11:03  
Lab Sample ID: JPL60-003 Date/Time Received: 08/31/2007 09:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/10/2007	09/11/2007	R021366



Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL60  
Sample Number: MW-22-3 Date/Time Collected: 08/30/2007 08:17  
Lab Sample ID: JPL60-005 Date/Time Received: 08/31/2007 09:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/10/2007	09/11/2007	R021366

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL60  
Sample Number: MW-22-2 Date/Time Collected: 08/30/2007 08:43  
Lab Sample ID: JPL60-006 Date/Time Received: 08/31/2007 09:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/10/2007	09/11/2007	R021366

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL60  
Sample Number: MW-22-1 Date/Time Collected: 08/30/2007 09:10  
Lab Sample ID: JPL60-007 Date/Time Received: 08/31/2007 09:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/10/2007	09/11/2007	R021366



Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL60  
Sample Number: EB-8-8/30/07 Date/Time Collected: 08/30/2007 08:58  
Lab Sample ID: JPL60-008 Date/Time Received: 08/31/2007 09:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	09/10/2007	09/11/2007	R021366

**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL61**

**September 28, 2007**

# LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL61  
Date of Report: 9/28/2007

## **SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:**

### **Sample Receipt and Identification:**

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<b><u>Client Sample Identification</u></b>	<b><u>Laucks Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-12-5	JPL61-001	VOA/PER
MW-12-4	JPL61-002	VOA/PER
MW-12-3	JPL61-003	VOA/MET/PER
MW-12-2	JPL61-004	VOA/MET/PER
MW-12-1	JPL61-005	VOA/MET/PER
EB-9-8/31/07	JPL61-006	VOA/MET/PER
TB-9-8/31/07	JPL61-007	VOA
MW-24-4	JPL61-008	VOA/MET/PER
MW-24-3	JPL61-009	VOA/MET/PER
MW-24-2	JPL61-010	VOA/MET/PER/ANIONS
MW-24-1	JPL61-011	VOA/MET/PER
EB-10-9/4/07	JPL61-012	VOA/MET/PER
TB-10-9/4/07	JPL61-013	VOA

### **Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)  
ANIONS = Chloride, Nitrate, Nitrite, Sulfate, Ortho phosphorus (300.0)

### **Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.

One of two volatiles bottles submitted for TB-10-9/4/07 (JPL61-013) contained bubbles of greater than 1/4 inch in size. The client was notified of discrepancy on September 5, 2007.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

#### Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

#### Holding Time Compliance:

##### *Volatile Organic Compounds:*

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

#### Volatiles Fraction:

##### Continuing Calibration Verification (CCV):

In the CCV performed on 09/14/2007 and 09/17/2007 the percent difference values for 2,2-dichloropropane exceeded 20% due to increased response. This analyte was not detected in any associated samples; no further action was taken.

##### Method Blank

Analysis of the method blank performed on 09/14/2007 resulted in the detection of methylene chloride. All sample results reported for this analyte have been "B" flagged to denote its presence in the associated method blank analysis.

##### Quality Control Analyses:

MS/MSD analyses were not performed on sample MW-24-1 due to insufficient sample volume.

MS/MSD analyses performed on sample MW-24-2 yielded all recoveries and RPD values within the control limits.

The blank spike analyses on 09/14/2007 and 09/17/2007 yielded high recoveries for 2,2-dichloropropane. Because all other analytes were in control, no further action was taken.

# LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

## GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

### ICP Metals:

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

## SPECIFIC REMARKS ON INORGANIC ANALYSES:

### Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

### Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

### Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None
Chloride	28 days	None
Sulfate	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None

### ICP-MS Metals:

The scandium internal standard percent recovery for sample MW-24-1 fell outside of the suggested control limits of 30-120%. Chromium is associated with this internal standard. Therefore, results for chromium for sample MW-24-1 were reported from a 2 fold dilution where the scandium internal standard is within the control limits.

### Miscellaneous Inorganics:

No comments.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
  - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
  - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
  - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
  - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
  - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
- E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
- N Spiked sample recovery not within control limits.
- \* Duplicate analysis not within control limits.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,



Kara Godineaux  
Project Manager

9/28/07  
(DATE)



Harry Romberg  
Quality Assurance Officer

9/28/07  
(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.



**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies

**LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG**

Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	300.0 Low Level NO3, NO2, Cl, SO4, OPO4	314.0 Perchlorate	524.2 Volatile Organics + TICS (JPL Special list)	TurMet for 200.7/200.8 TurMet
JPL61-001	09/05/2007 08:45 AM	08/31/2007 07:29 AM	MW-12-5			IN	IN	
JPL61-002	09/05/2007 08:45 AM	08/31/2007 07:54 AM	MW-12-4			IN	IN	
JPL61-003	09/05/2007 08:45 AM	08/31/2007 08:17 AM	MW-12-3			IN	IN	A-
JPL61-004	09/05/2007 08:45 AM	08/31/2007 08:47 AM	MW-12-2			IN	IN	A-
JPL61-005	09/05/2007 08:45 AM	08/31/2007 09:12 AM	MW-12-1			IN	IN	A-
JPL61-006	09/05/2007 08:45 AM	08/31/2007 08:58 AM	EB-9-8/31/07	IN		IN	IN	A-
JPL61-007	09/05/2007 08:45 AM	08/31/2007 12:00 AM	TB-9-8/31/07				IN	
JPL61-008	09/05/2007 08:45 AM	09/04/2007 07:58 AM	MW-24-4	IN				A-
JPL61-009	09/05/2007 08:45 AM	09/04/2007 08:24 AM	MW-24-3	IN		IN	IN	A-
*JPL61-010	09/05/2007 08:45 AM	09/04/2007 09:01 AM	MW-24-2	IN		IN	IN	A-
*JPL61-011	09/05/2007 08:45 AM	09/04/2007 09:51 AM	MW-24-1	IN	A-	IN	IN	A-
JPL61-012	09/05/2007 08:45 AM	09/04/2007 09:38 AM	EB-10-9/4/07	IN		IN	IN	A-
JPL61-013	09/05/2007 08:45 AM	09/04/2007 12:00 AM	TB-10-9/4/07				IN	

Approved By:

*[Handwritten Signature]*

On:

*9/5/07*

LEGEND: -:Started, +:Completed, IN:Logged In, p:Preparation, A:Analysis, X:Cancelled, PL:Pre-logged

FORM LTL-PM-8.0



THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

COMPANY: BATTERLE  
 ADDRESS: 3990 OLD TOWN AVE., C-205  
SAV DUNSMO, CA 92110  
 ATTENTION: DAVID COVER  
 PROJECT NAME: JPL GW MON. 3907  
 PROJECT CONTACT: DAVID COVER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/P.O. NO.: 6486090/ 210640

CHAIN OF CUSTODY RECORD SDG # JPL 61  
 43074 PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_  
 SUBMITTED AT: \_\_\_\_\_



410 South Henry St., Seattle, WA 98106 (206) 757-3000 FAX 757-5063  
 1100 Lockwood Ave., Yakima WA 98902 (509) 245-4925 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS
VOC (524.2)	X
TOTAL-Cr (600.8)	X
ClO <sub>4</sub> - (314.0)	X
67, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	

LAB #	SAMPLE ID / LOCATION	DATE	TIME	MATRIX	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
5	MW-24-4	9/4/07	758	W	1		
9	MW-24-3		824		5 X X X X		
10	MW-24-2		901		10 X X X		M/S/M/S/D
11	MW-24-1		951		5 X X X X		LEVEL IV OK
12	EB-10 - 9/4/07		938		5 X X X X		EQUIP. BLANK
13	TR-10 - 9/4/07				2 X		TRIP BLANK

A. A standard turnaround time is assumed unless otherwise marked.  
 B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE.
2. BE SPECIFIC IN TEST REQUESTS.
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

BILLING INFORMATION (DIFFERENT THAN ABOVE)

NAME: BATTERLE  
 ATTN: GERARD TAPPIUS  
 ADDRESS: 505 RINDG AVE-  
COLUMBIAS, OR 97201  
 CITY, STATE, ZIP

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TOTAL NO. OF CONTAINERS: \_\_\_\_\_  
 TURNAROUND REQUEST:  STD. 10-14 WORKING DAYS  
 24-48 HRS. (100% SUR)  
 72 HRS. (75% SUR)  
 5 DAYS (60% SUR)  
 OTHER: \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  N/A

RELINQUISHED BY (SIGN AND PRINT): Mark Maul  
 DATE: 9/4/07  
 RECEIVED BY (SIGN AND PRINT): Elizabeth S. Lopez  
 DATE: 9/5/07

**FORMS SUMMARY**

SDG JPL61

VOLATILES ANALYSIS

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-001  
 Lab File ID: B0914022.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 14:06  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.39	J
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-001  
 Lab File ID: B0914022.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 14:06  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-001  
 Lab File ID: B0914022.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 14:06  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-4

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin

SDG No.: JPL61 Run Sequence: R021555

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL61-002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0914023.D

Level: (LOW/MED) \_\_\_\_\_ Date Collected: 08/31/2007

% Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/14/2007 14:32

GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.75	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	1.6	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.44	J
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-4

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL61

Run Sequence: R021555

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL61-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914023.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/31/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/14/2007 14:32

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-002  
 Lab File ID: B0914023.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 14:32  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-003  
 Lab File ID: B0914024.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 14:58  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	4.5	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	1.2	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.57	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-003  
 Lab File ID: B0914024.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 14:58  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-3

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL61

Run Sequence: R021555

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL61-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914024.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/31/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/14/2007 14:58

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-004  
 Lab File ID: B0914025.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 15:23  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.53	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-004  
 Lab File ID: B0914025.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 15:23  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-004  
 Lab File ID: B0914025.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 15:23  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-005  
 Lab File ID: B0914026.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 15:49  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-005  
 Lab File ID: B0914026.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 15:49  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-005  
 Lab File ID: B0914026.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 15:49  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-9-8/31/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-006  
 Lab File ID: B0914027.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 16:16  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
75-71-8	Dichlorodifluoromethane	0.50		U
74-87-3	Chloromethane	0.50		U
75-01-4	Vinyl chloride	0.50		U
74-83-9	Bromomethane	0.50		U
75-00-3	Chloroethane	0.50		U
75-69-4	Trichlorofluoromethane	0.50		U
75-35-4	1,1-Dichloroethene	0.50		U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50		U
75-09-2	Methylene chloride	1.0		U
1634-04-4	Methyl tert-butyl ether	0.50		U
156-60-5	trans-1,2-Dichloroethene	0.50		U
75-34-3	1,1-Dichloroethane	0.50		U
594-20-7	2,2-Dichloropropane	0.50		U
156-59-2	cis-1,2-Dichloroethene	0.50		U
78-93-3	2-Butanone	5.0		U
74-97-5	Bromochloromethane	0.50		U
67-66-3	Chloroform	0.50		U
71-55-6	1,1,1-Trichloroethane	0.50		U
56-23-5	Carbon tetrachloride	0.50		U
563-58-6	1,1-Dichloropropene	0.50		U
71-43-2	Benzene	0.50		U
107-06-2	1,2-Dichloroethane	0.50		U
79-01-6	Trichloroethene	0.50		U
78-87-5	1,2-Dichloropropane	0.50		U
74-95-3	Dibromomethane	0.50		U
75-27-4	Bromodichloromethane	0.50		U
10061-01-	cis-1,3-Dichloropropene	0.50		U
108-10-1	4-Methyl-2-pentanone	5.0		U
108-88-3	Toluene	0.50		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-9-8/31/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-006  
 Lab File ID: B0914027.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 16:16  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-9-8/31/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL61

Run Sequence: R021555

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL61-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914027.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 08/31/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/14/2007 16:16

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	<u>ug/L</u>
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-9-8/31/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-007  
 Lab File ID: B0914028.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 16:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-9-8/31/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-007  
 Lab File ID: B0914028.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 16:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-9-8/31/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-007  
 Lab File ID: B0914028.D  
 Date Collected: 08/31/2007  
 Date/Time Analyzed: 09/14/2007 16:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-009  
 Lab File ID: B0914029.D  
 Date Collected: 09/04/2007  
 Date/Time Analyzed: 09/14/2007 17:07  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-009  
 Lab File ID: B0914029.D  
 Date Collected: 09/04/2007  
 Date/Time Analyzed: 09/14/2007 17:07  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-009  
 Lab File ID: B0914029.D  
 Date Collected: 09/04/2007  
 Date/Time Analyzed: 09/14/2007 17:07  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL61

Run Sequence: R021555

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL61-010

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914030.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/04/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/14/2007 17:33

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.49	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.84	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-2

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin

SDG No.: JPL61 Run Sequence: R021555

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL61-010

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0914030.D

Level: (LOW/MED) \_\_\_\_\_ Date Collected: 09/04/2007

% Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/14/2007 17:33

GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL61

Run Sequence: R021555

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL61-010

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914030.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/04/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/14/2007 17:33

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-1

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin

SDG No.: JPL61 Run Sequence: R021555

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL61-011

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0914031.D

Level: (LOW/MED) \_\_\_\_\_ Date Collected: 09/04/2007

% Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/14/2007 17:58

GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.70	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	4.4	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	5.8	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	1.5	
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-011  
 Lab File ID: B0914031.D  
 Date Collected: 09/04/2007  
 Date/Time Analyzed: 09/14/2007 17:58  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	4.5	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	1.7	
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	1.0	
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-011  
 Lab File ID: B0914031.D  
 Date Collected: 09/04/2007  
 Date/Time Analyzed: 09/14/2007 17:58  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-10-9/4/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-012  
 Lab File ID: B0914032.D  
 Date Collected: 09/04/2007  
 Date/Time Analyzed: 09/14/2007 18:24  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-10-9/4/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-012  
 Lab File ID: B0914032.D  
 Date Collected: 09/04/2007  
 Date/Time Analyzed: 09/14/2007 18:24  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-10-9/4/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL61

Run Sequence: R021555

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL61-012

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914032.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/04/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/14/2007 18:24

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-10-9/4/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL61-013  
 Lab File ID: B0917019.D  
 Date Collected: 09/04/2007  
 Date/Time Analyzed: 09/17/2007 14:10  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-10-9/4/07

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin

SDG No.: JPL61 Run Sequence: R021582

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL61-013

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0917019.D

Level: (LOW/MED) \_\_\_\_\_ Date Collected: 09/04/2007

% Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/17/2007 14:10

GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-10-9/4/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL61  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL61-013  
 Lab File ID: B0917019.D  
 Date Collected: 09/04/2007  
 Date/Time Analyzed: 09/17/2007 14:10  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

**FORMS SUMMARY**

**JPL61**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-12-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL61

Matrix (soil/water): Water

Lab Sample ID: JPL61-003

Level (low/med): LOW

Date Received: 09/05/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	12.3			M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-12-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL61

Matrix (soil/water): Water

Lab Sample ID: JPL61-004

Level (low/med): LOW

Date Received: 09/05/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	15.7			M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-12-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL61

Matrix (soil/water): Water

Lab Sample ID: JPL61-005

Level (low/med): LOW

Date Received: 09/05/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	16.6			M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-9-8/31/07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL61

Matrix (soil/water): Water

Lab Sample ID: JPL61-006

Level (low/med): LOW

Date Received: 09/05/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U		M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-24-4

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL61

Matrix (soil/water): Water

Lab Sample ID: JPL61-008

Level (low/med): LOW

Date Received: 09/05/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	8.71			M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-24-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL61

Matrix (soil/water): Water

Lab Sample ID: JPL61-009

Level (low/med): LOW

Date Received: 09/05/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	11.0			M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-24-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL61

Matrix (soil/water): Water

Lab Sample ID: JPL61-010

Level (low/med): LOW

Date Received: 09/05/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	13.1			M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-24-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL61

Matrix (soil/water): Water

Lab Sample ID: JPL61-011

Level (low/med): LOW

Date Received: 09/05/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	5.10			M	R021433

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_

Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-10-9/4/07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL61

Matrix (soil/water): Water

Lab Sample ID: JPL61-012

Level (low/med): LOW

Date Received: 09/05/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U		M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**FORMS SUMMARY**

**JPL61**

**Miscellaneous Inorganics**

Laucks Testing Laboratories, Inc.

Final Results

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL61  
**Sample Number:** MW-12-5 **Date/Time Collected:** 08/31/2007 07:29  
**Lab Sample ID:** JPL61-001 **Date/Time Received:** 09/05/2007 08:45  
**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/13/2007	09/14/2007	R021485

Laucks Testing Laboratories, Inc.

Final Results

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL61  
**Sample Number:** MW-12-4 **Date/Time Collected:** 08/31/2007 07:54  
**Lab Sample ID:** JPL61-002 **Date/Time Received:** 09/05/2007 08:45  
**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/13/2007	09/14/2007	R021485

Laucks Testing Laboratories, Inc.

Final Results

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL61  
**Sample Number:** MW-12-3 **Date/Time Collected:** 08/31/2007 08:17  
**Lab Sample ID:** JPL61-003 **Date/Time Received:** 09/05/2007 08:45  
**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/13/2007	09/14/2007	R021485

Laucks Testing Laboratories, Inc.

Final Results

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL61  
**Sample Number:** MW-12-2 **Date/Time Collected:** 08/31/2007 08:47  
**Lab Sample ID:** JPL61-004 **Date/Time Received:** 09/05/2007 08:45  
**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/13/2007	09/14/2007	R021485



Laucks Testing Laboratories, Inc.

Final Results

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL61  
**Sample Number:** MW-12-1 **Date/Time Collected:** 08/31/2007 09:12  
**Lab Sample ID:** JPL61-005 **Date/Time Received:** 09/05/2007 08:45  
**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/13/2007	09/14/2007	R021485

Laucks Testing Laboratories, Inc.

Final Results

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL61  
**Sample Number:** EB-9-8/31/07 **Date/Time Collected:** 08/31/2007 08:58  
**Lab Sample ID:** JPL61-006 **Date/Time Received:** 09/05/2007 08:45  
**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	09/13/2007	09/14/2007	R021485

Laucks Testing Laboratories, Inc.

Final Results

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL61  
**Sample Number:** MW-24-3 **Date/Time Collected:** 09/04/2007 08:24  
**Lab Sample ID:** JPL61-009 **Date/Time Received:** 09/05/2007 08:45  
**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/13/2007	09/14/2007	R021485

Laucks Testing Laboratories, Inc.

Final Results

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL61  
**Sample Number:** MW-24-2 **Date/Time Collected:** 09/04/2007 09:01  
**Lab Sample ID:** JPL61-010 **Date/Time Received:** 09/05/2007 08:45  
**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	35		2.0	0.28	09/13/2007	09/14/2007	R021485

**Laucks Testing Laboratories, Inc.**

**Final Results**

<b>Client:</b>	Battelle	<b>Project:</b>	JPL Groundwater Monitoring
<b>SDG Number:</b>	JPL61		
<b>Sample Number:</b>	MW-24-1	<b>Date/Time Collected:</b>	09/04/2007 09:51
<b>Lab Sample ID:</b>	JPL61-011	<b>Date/Time Received:</b>	09/05/2007 08:45
<b>Method:</b>	E300.0	<b>Unit:</b>	mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	2.0		0.040	0.055	09/05/2007	09/05/2007	R021196
Nitrite - N	14797-65-0	1	0.050	U	0.050	0.017	09/05/2007	09/05/2007	R021196
Sulfate as SO4	14808-79-8	10	31		10	1.7	09/05/2007	09/05/2007	R021196
Chloride	16887-00-6	10	33		2.0	0.76	09/05/2007	09/05/2007	R021196
Orthophosphate	7723-14-0	1	0.10	U	0.10	0.33	09/05/2007	09/05/2007	R021196

Laucks Testing Laboratories, Inc.

Final Results

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL61  
**Sample Number:** MW-24-1RX **Date/Time Collected:** 09/04/2007 09:51  
**Lab Sample ID:** JPL61-011 **Date/Time Received:** 09/05/2007 08:45  
**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	20	1300		20	2.8	09/17/2007	09/19/2007	R021577

Laucks Testing Laboratories, Inc.

Final Results

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL61  
**Sample Number:** EB-10-9/4/07 **Date/Time Collected:** 09/04/2007 09:38  
**Lab Sample ID:** JPL61-012 **Date/Time Received:** 09/05/2007 08:45  
**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	09/13/2007	09/14/2007	R021485

**TIC FORMS**

SDG JPL61

VOLATILES ANALYSIS



1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-12-5

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL61  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-001  
 Lab File ID: B0914022.D  
 Date Collected: 09/08/2007 *8/21/2007*  
 Date Analyzed: 09/14/2007 *9/17/07*  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-12-4

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL61  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-002  
 Lab File ID: B0914023.D  
 Date Collected: 09/05/2007 *8/31/07*  
 Date Analyzed: 09/14/2007 *9/17/07*  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-12-3

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL61  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-003  
 Lab File ID: B0914024.D  
 Date Collected: 09/05/2007 <sup>8/31/2007</sup> *J 9/17h*  
 Date Analyzed: 09/14/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-12-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL61  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-004  
 Lab File ID: B0914025.D  
 Date Collected: 09/05/2007 *8/21/2007*  
 Date Analyzed: 09/14/2007 *7/17/07*  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-12-1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL61  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-005  
 Lab File ID: B0914026.D  
 Date Collected: 09/05/2007 *8/31/2007*  
 Date Analyzed: 09/14/2007 *9/17/07*  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-9-8/31/07

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL61  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-006  
 Lab File ID: B0914027.D  
 Date Collected: 09/05/2007 *8/31/2007*  
 Date Analyzed: 09/14/2007 *9/17/07*  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-9-8/31/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL61

Run Sequence: R021555

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL61-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914028.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/05/2007 *8/31/07 & 9/17/07*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/14/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-24-3

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL61  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-009  
 Lab File ID: B0914029.D  
 Date Collected: 09/05/2007 *09/04/2007*  
 Date Analyzed: 09/14/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

01	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:



1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-24-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL61  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL61-010  
 Lab File ID: B0914030.D  
 Date Collected: 09/08/2007 *09/17/07*  
 Date Analyzed: 09/14/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-24-1

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL61

Run Sequence: R021555

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL61-011

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914031.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/08/2007 <sup>04</sup> *g 9/17/07*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/14/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-10-9/4/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL61

Run Sequence: R021555

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL61-012

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914032.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/05/2007 *of 9/17/07*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/14/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-10-9/4/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL61

Run Sequence: R021582

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL61-013

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917019.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/05/2007 *9/17/07*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/17/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B091407MVOWB1

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL61

Run Sequence: R021555

Matrix: (SOIL/WATER) Water

Lab Sample ID: B091407MVOWB1

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914020.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/14/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B091707MVOWB1

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL61

Run Sequence: R021582

Matrix: (SOIL/WATER) Water

Lab Sample ID: B091707MVOWB1

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917007.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/17/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG.: JPL62**

**OCTOBER 5, 2007**

# LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL62  
Date of Report: October 5, 2007

## SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

### Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Laucks Sample Identification</u>	<u>Testing Analytical Request</u>
MW-26-2	JPL62-001	VOA/MET/PER
MW-26-1	JPL62-002	VOA/MET/PER
EB-11-9/5/07	JPL62-003	VOA/MET/PER
TB-11-9/5/07	JPL62-004	VOA

### Analytical Request Key:

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)

### Sample Receipt Comments:

There were no anomalies associated with the receipt of these samples.

## GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

### Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M Manual integration due to irregular peak shape  
MS Manual integration due to split peak  
MR Manual integration due to retention time shift  
MI Manual integration of correct isomer



**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

MT Manual integration due to peak tailing  
MB Manual integration due to irregular baseline

**Holding Time Compliance:**

*Volatile Organic Compounds:*

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

**Volatiles Fraction:**

Continuing Calibration Verification (CCV):

In the CCV performed on 09/14/2007 the percent difference values for 2,2-dichloropropane exceeded 20% due to increased response. This analyte was not detected in any associated samples so no further action was taken.

Quality Control Analyses:

MS/MSD analyses were not performed on sample MW-26-1 due to insufficient sample volume. The blank spike analysis yielded high recovery for 2,2-dichloropropane. Because all other analytes were in control, no further action was taken.

**GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

**ICP Metals:**

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

**SPECIFIC REMARKS ON INORGANIC ANALYSES:**

Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None

### ICP-MS Metals:

The serial dilution for the element chromium did not agree within 10% of the original determination after correction for dilution for sample MW-26-1. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms 1 and 9.

### Miscellaneous Inorganics:

No comments.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
  - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
  - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
  - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
  - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
  - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
- E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
- N Spiked sample recovery not within control limits.
- \* Duplicate analysis not within control limits.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,

  
Kara Godineaux  
Project Manager

10/5/07  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

10/5/07  
(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

**LAUCKS TESTING LABORATORIES**  
940 S. Harney  
Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies

**LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG**

Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)	TurMet for 200.7/200.8 TurMet
JPL62-001	09/06/2007 08:30 AM	09/05/2007 08:13 AM	MW-26-2	IN	IN	IN	A-
*JPL62-002	09/06/2007 08:30 AM	09/05/2007 08:46 AM	MW-26-1	IN	IN	IN	A-
JPL62-003	09/06/2007 08:30 AM	09/05/2007 08:32 AM	EB-11-9/5/07	IN	IN	IN	A-
JPL62-004	09/06/2007 08:30 AM	09/05/2007 12:00 AM	TB-11-9/5/07			IN	

Approved By:

*[Signature]* On: *9/6/07*

Notes:

Samples identified with a '\*' client has requested QC for

LEGEND: -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged

FORM LTL-PM-8.0

THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

COMPANY: BATTLE  
 ADDRESS: 3990 OLD TRAIL AVE, C-205  
SAV DICKSON, CA 92110  
 ATTENTION: DAVID COVER  
 PROJECT NAME: SPL CIV NOV. 3007  
 PROJECT CONTACT: DAVID COVER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/P.O. NO.: 658699/210640

CHAIN OF CUSTODY RECORD  
 43070

SDG # SPL62  
 PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_

SUBMITTED AT:

940 South Hamner St, Seattle, WA 98108 (206) 767-5900 FAX 767-5100  
 1100 E. Odessa Ave., Valparaiso, IN 46385 (819) 254-4035 FAX 852-1265

TESTS TO PERFORM

MATRIX: WATER, SOIL OR SPECIFY  
 NO. OF CONTAINERS  
URC (574.2)  
TOTAL-CR (600.8)  
CUO4 - (314.0)

2

OBSERVATIONS,  
 COMMENTS, SPECIAL  
 INSTRUCTIONS

LAB SA#	SAMPLE ID / LOCATION	DATE	TIME	MATRIX	NO. OF CONTAINERS	RECEIVED BY (SIGN AND PRINT)	DATE	TIME	RECEIVED BY (SIGN AND PRINT)	DATE	TIME	TURNAROUND REQUEST
1	MW-26-2	9/15/07	813	W	5		9/15/07	1300		9/16/07		STD. 10-14 WORKING DAYS
2	MW-26-1		846	X	X							72 HRS. (75% SUR)
3	EB-11-9/5/07		832	X	X							24-48 HRS. (100% SUR)
4	TB-11-9/5/07			X	2							5 DAYS (60% SUR)
												OTHER:
												TEMP:
												CUSTODY SEAL: <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A

A. A standard turnaround time is assumed unless otherwise marked.

B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS:  
 1. USE ONE LINE PER SAMPLE.  
 2. BE SPECIFIC IN TEST REQUESTS.  
 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

NAME: BATTLE  
 ADDRESS: SDS 1512 1/2 AVE.  
 CITY, STATE, ZIP: COLUMBIAS, OH 43201

RELINQUISHED BY (SIGN AND PRINT): GERALD TANKERS  
 DATE: 9/15/07  
 TIME: 1300

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TOTAL NO. OF CONTAINERS: \_\_\_\_\_  
 TURNAROUND REQUEST: \_\_\_\_\_  
 STD. 10-14 WORKING DAYS  
 24-48 HRS. (100% SUR)  
 72 HRS. (75% SUR)  
 5 DAYS (60% SUR)  
 OTHER:  
 TEMP:  
 CUSTODY SEAL:  Y  N  N/A





# **FORMS SUMMARY**

SDG JPL62

VOLATILES ANALYSIS

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-26-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL62  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL62-001  
 Lab File ID: B0914033.D  
 Date Collected: 09/05/2007  
 Date/Time Analyzed: 09/14/2007 18:50  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-26-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL62  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL62-001  
 Lab File ID: B0914033.D  
 Date Collected: 09/05/2007  
 Date/Time Analyzed: 09/14/2007 18:50  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-26-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL62  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL62-001  
 Lab File ID: B0914033.D  
 Date Collected: 09/05/2007  
 Date/Time Analyzed: 09/14/2007 18:50  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-26-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL62  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL62-002  
 Lab File ID: B0914034.D  
 Date Collected: 09/05/2007  
 Date/Time Analyzed: 09/14/2007 19:16  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-26-1

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL62

Run Sequence: R021555

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL62-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914034.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/05/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/14/2007 19:16

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.47	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-26-1

Lab Name: \_\_\_\_\_

SDG No.: JPL62

Matrix: (SOIL/SED/WATER) Water

Sample wt/vol: 5.00 (g/mL) mL

Level: (LOW/MED) \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

GC Column: ZB-624 20m ID: 0.18 (mm)

Soil Extract Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin

Run Sequence: R021555

Lab Sample ID: JPL62-002

Lab File ID: B0914034.D

Date Collected: 09/05/2007

Date/Time Analyzed: 09/14/2007 19:16

Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-11-9/5/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL62  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL62-003  
 Lab File ID: B0914035.D  
 Date Collected: 09/05/2007  
 Date/Time Analyzed: 09/14/2007 19:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-11-9/5/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL62  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL62-003  
 Lab File ID: B0914035.D  
 Date Collected: 09/05/2007  
 Date/Time Analyzed: 09/14/2007 19:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-11-9/5/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL62  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL62-003  
 Lab File ID: B0914035.D  
 Date Collected: 09/05/2007  
 Date/Time Analyzed: 09/14/2007 19:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-11-9/5/07

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin

SDG No.: JPL62 Run Sequence: R021555

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL62-004

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0914036.D

Level: (LOW/MED) \_\_\_\_\_ Date Collected: 09/05/2007

% Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/14/2007 20:07

GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_\_(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-11-9/5/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL62

Run Sequence: R021555

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL62-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914036.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/05/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/14/2007 20:07

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-11-9/5/07

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin

SDG No.: JPL62 Run Sequence: R021555

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL62-004

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0914036.D

Level: (LOW/MED) \_\_\_\_\_ Date Collected: 09/05/2007

% Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/14/2007 20:07

GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

**FORMS SUMMARY**

**JPL62**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-26-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL62

Matrix (soil/water): Water

Lab Sample ID: JPL62-001

Level (low/med): LOW

Date Received: 09/06/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	14.4		E	M	R021394

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-26-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL62

Matrix (soil/water): Water

Lab Sample ID: JPL62-002

Level (low/med): LOW

Date Received: 09/06/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	14.3		E	M	R021394

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-11-9/5/07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL62

Matrix (soil/water): Water

Lab Sample ID: JPL62-003

Level (low/med): LOW

Date Received: 09/06/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U	E	M	R021394

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_

**FORMS SUMMARY**

**JPL62**

**Miscellaneous Inorganics**

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL62  
Sample Number: MW-26-2 Date/Time Collected: 09/05/2007 08:13  
Lab Sample ID: JPL62-001 Date/Time Received: 09/06/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/13/2007	09/14/2007	R021485

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL62  
Sample Number: MW-26-1 Date/Time Collected: 09/05/2007 08:46  
Lab Sample ID: JPL62-002 Date/Time Received: 09/06/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/13/2007	09/14/2007	R021485

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL62  
Sample Number: EB-11-9/5/07 Date/Time Collected: 09/05/2007 08:32  
Lab Sample ID: JPL62-003 Date/Time Received: 09/06/2007 08:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	09/13/2007	09/14/2007	R021485

**TIC FORMS**

SDG JPL62

VOLATILES ANALYSIS

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-26-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL62  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL62-001  
 Lab File ID: B0914033.D  
 Date Collected: 09/06/2007 *AS 8 9/24/07*  
 Date Analyzed: 09/14/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-26-1

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL62

Run Sequence: R021555

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL62-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914034.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/06/2007 *OS 9/24/07*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/14/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:



1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-11-9/5/07

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL62  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021555  
 Lab Sample ID: JPL62-003  
 Lab File ID: B0914035.D  
 Date Collected: 09/05/2007 *of 1/24/07*  
 Date Analyzed: 09/14/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-11-9/5/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL62

Run Sequence: R021555

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL62-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914036.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/26/2007 *vs 9/24/07*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/14/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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16					
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25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B091407MVOWB1

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL62

Run Sequence: R021555

Matrix: (SOIL/WATER) Water

Lab Sample ID: B091407MVOWB1

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0914020.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/14/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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25					
26					
27					
28					
29					
30					

Comments:

**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG.: JPL63**

**OCTOBER 5, 2007**

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL63  
Date of Report: October 5, 2007

**SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:**

**Sample Receipt and Identification:**

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<b><u>Client Sample Identification</u></b>	<b><u>Laucks Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-25-5	JPL63-001	VOA/MET/PER
MW-25-4	JPL63-002	VOA/MET/PER
MW-25-3	JPL63-003	VOA/MET/PER
MW-25-2	JPL63-004	VOA/MET/PER
MW-25-1	JPL63-005	VOA/MET/PER
EB-12-9/6/07	JPL63-006	VOA/MET/PER
TB-12-9/6/07	JPL63-007	VOA

**Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)

**Sample Receipt Comments:**

There were no anomalies associated with the receipt of these samples.

**GENERAL REMARKS ON ORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

**Manual Integrations:**

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

### **Holding Time Compliance:**

#### *Volatile Organic Compounds:*

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

### **Volatiles Fraction:**

#### Initial Calibration Verification (ICV) Standard:

Analysis of the the second source standard ICV090407MVOB1 performed on instrument 5973B yielded a % D value for dichlorodifluoromethane that exceeded 30%. A second source standard is used daily to prepare a blank spike. Because the recovery for this analyte was within the control limits in the blank spike S091707MVOWB1 and the analyte was not found in any associated sample analyses, no further action was taken.

#### Continuing Calibration Verification (CCV):

In the CCV performed on 9/17/07 the %D value for 2,2-dichloropropane exceeded 30% due to increased response. Because it was not detected in any associated samples, no further action was taken.

#### Quality Control Analyses:

MS/MSD analyses on sample MW-25-1 yielded a slightly high recovery value for 2,2-dichloropropane. Because all other recoveries were within control limits, no action was taken.

Analysis of the blank spike S091707MVOWB1 also yielded a high recovery value for 2,2-dichloropropane. Because this analyte was not detected in any associated samples and all other analyte recoveries were within the control limits, no further action was taken.

### **GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

#### **ICP Metals:**

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

**LAUCKS TESTING LABORATORIES**

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Seattle, WA 98108

**SPECIFIC REMARKS ON INORGANIC ANALYSES:**

Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None

ICP-MS Metals:

The scandium internal standard percent recovery for sample MW-25-1 fell outside of the suggested control limits of 30-120%. Chromium is associated with this internal standard. Therefore, results for chromium for sample MW-25-1 were reported from a 2 fold dilution where the scandium internal standard is within the control limits.

The serial dilution for the element chromium did not agree within 10% of the original determination after correction for dilution for sample MW-25-2. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms 1 and 9.

Miscellaneous Inorganics:

No comments.

## LAUCKS TESTING LABORATORIES

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Seattle, WA 98108

### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
- J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
- T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
- E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
- P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
- C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.



## LAUCKS TESTING LABORATORIES

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Seattle, WA 98108

### INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
- E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
- N Spiked sample recovery not within control limits.
- \* Duplicate analysis not within control limits.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,

  
Kara Godineaux  
Project Manager

10/5/07  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

10/5/07  
(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies

**LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG**

Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)	JPL TurMet for 200.7/200.8 TurMet
JPL63-001	09/07/2007 10:15 AM	09/06/2007 07:51 AM	MW-25-5	IN	IN	IN	IN
JPL63-002	09/07/2007 10:15 AM	09/06/2007 08:25 AM	MW-25-4	IN	IN	IN	IN
JPL63-003	09/07/2007 10:15 AM	09/06/2007 08:57 AM	MW-25-3	IN	IN	IN	IN
JPL63-004	09/07/2007 10:15 AM	09/06/2007 09:26 AM	MW-25-2	IN	IN	IN	IN
*JPL63-005	09/07/2007 10:15 AM	09/06/2007 09:59 AM	MW-25-1	IN	IN	IN	IN
JPL63-006	09/07/2007 10:15 AM	09/06/2007 09:44 AM	EB-12-9/6/07	IN	IN	IN	IN
JPL63-007	09/07/2007 10:15 AM	09/06/2007 12:00 AM	TB-12-9/6/07			IN	

Approved By:

*[Handwritten Signature]*

On:

*[Handwritten Signature]*

Samples identified with a '\*' client has requested QC for

**LEGEND:** -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged

**FORM LTL-PM-8.0**

COMPANY: BATELLE  
 ADDRESS: 3990 OLD TOWN AVE., C-205  
SAVANNAH, GA 31400  
 ATTENTION: DAVID CAVEN  
 PROJECT NAME: JPL Savannah 3007  
 PROJECT CONTACT: DAVID CAVEN  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/P.O. NO.: 6486090/210640

CHAIN OF CUSTODY RECORD  
 43071

SDG # JPL63  
 PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_

SUBMITTED AT: \_\_\_\_\_

TESTS TO PERFORM



MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
	<u>NO. (624.2)</u>	<u>2</u>
	<u>TOTAL G (200.8)</u>	
	<u>CLAY - (314.0)</u>	

LAB #/A #	SAMPLE ID / LOCATION	DATE	TIME																
1	MW-25-5	9/6/07	751	W	5	X	X	X											
2	MW-25-4		825			X	X	X											
3	MW-25-3		857			X	X	X											
4	MW-25-2		926			X	X	X											
5	MW-25-1		959		10	X	X	X											
6	EB-12-9/6/07		944		5	X	X	X											
7	TR-12-9/6/07				2	X													

A. A standard turnaround time is assumed unless otherwise marked.

B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

**INSTRUCTIONS:**

- USE ONE LINE PER SAMPLE
- BE SPECIFIC IN TEST REQUESTS.
- CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

**BILLING INFORMATION: DIFFERENT THAN ABOVE**

NAME: BATELLE ADDRESS: 505 RULK AVE.  
 ATTN: GEORGE TAYLOR CITY, STATE, ZIP: COLUMBUS OH 43201

RECEIVED BY (SIGN AND PRINT): Michael F. Elizabeth Solomon DATE: 9/17/07

RECEIVED BY (SIGN AND PRINT): [Signature] DATE: 9/16/07

**\* PUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL**

TURNAROUND REQUEST:  STD. 10-14 WORKING DAYS  
 24-48 HRS. (100% SUR)  
 72 HRS. (75% SUR)  
 5 DAYS (50% SUR)  
 OTHER: \_\_\_\_\_  
 TEMP: \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  N/A

FINAL REPORT COPY

# **FORMS SUMMARY**

**SDG# JPL63**

**Volatiles**

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL63  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-001  
 Lab File ID: B0917011.D  
 Date Collected: 09/06/2007  
 Date/Time Analyzed: 09/17/2007 10:45  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-5

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL63-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917011.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/06/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/17/2007 10:45

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-5

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL63-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917011.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/06/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/17/2007 10:45

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL63  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-002  
 Lab File ID: B0917012.D  
 Date Collected: 09/06/2007  
 Date/Time Analyzed: 09/17/2007 11:11  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-4

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL63-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917012.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/06/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/17/2007 11:11

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
10061-02-	trans-1,3-Dichloropropene	0.50		U
79-00-5	1,1,2-Trichloroethane	0.50		U
127-18-4	Tetrachloroethene	0.50		U
142-28-9	1,3-Dichloropropane	0.50		U
124-48-1	Dibromochloromethane	0.50		U
106-93-4	1,2-Dibromoethane	0.50		U
108-90-7	Chlorobenzene	0.50		U
100-41-4	Ethylbenzene	0.50		U
630-20-6	1,1,1,2-Tetrachloroethane	0.50		U
179601-23	m,p-Xylene	1.0		U
95-47-6	o-Xylene	0.50		U
100-42-5	Styrene	0.50		U
75-25-2	Bromoform	0.50		U
98-82-8	Isopropylbenzene	0.50		U
79-34-5	1,1,2,2-Tetrachloroethane	0.50		U
103-65-1	n-Propylbenzene	0.50		U
108-86-1	Bromobenzene	0.50		U
96-18-4	1,2,3-Trichloropropane	0.50		U
95-49-8	2-Chlorotoluene	0.50		U
108-67-8	1,3,5-Trimethylbenzene	0.50		U
106-43-4	4-Chlorotoluene	0.50		U
98-06-6	tert-Butylbenzene	0.50		U
95-63-6	1,2,4-Trimethylbenzene	0.50		U
135-98-8	sec-Butylbenzene	0.50		U
99-87-6	4-Isopropyltoluene	0.50		U
541-73-1	1,3-Dichlorobenzene	0.50		U
106-46-7	1,4-Dichlorobenzene	0.50		U
104-51-8	n-Butylbenzene	0.50		U
95-50-1	1,2-Dichlorobenzene	0.50		U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-4

Lab Name: \_\_\_\_\_  
 SDG No.: JPL63  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-002  
 Lab File ID: B0917012.D  
 Date Collected: 09/06/2007  
 Date/Time Analyzed: 09/17/2007 11:11  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL63  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-003  
 Lab File ID: B0917013.D  
 Date Collected: 09/06/2007  
 Date/Time Analyzed: 09/17/2007 11:36  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	1.1	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-3

Lab Name: \_\_\_\_\_  
 SDG No.: JPL63  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-003  
 Lab File ID: B0917013.D  
 Date Collected: 09/06/2007  
 Date/Time Analyzed: 09/17/2007 11:36  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-3

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL63-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917013.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/06/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/17/2007 11:36

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-2

Lab Name: \_\_\_\_\_  
 SDG No.: JPL63  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-004  
 Lab File ID: B0917014.D  
 Date Collected: 09/06/2007  
 Date/Time Analyzed: 09/17/2007 12:02  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL63-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917014.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/06/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/17/2007 12:02

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-2

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL63-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917014.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/06/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/17/2007 12:02

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-1

Lab Name: \_\_\_\_\_  
 SDG No.: JPL63  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-005  
 Lab File ID: B0917015.D  
 Date Collected: 09/06/2007  
 Date/Time Analyzed: 09/17/2007 12:27  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
75-71-8	Dichlorodifluoromethane	0.50		U
74-87-3	Chloromethane	0.50		U
75-01-4	Vinyl chloride	0.50		U
74-83-9	Bromomethane	0.50		U
75-00-3	Chloroethane	0.50		U
75-69-4	Trichlorofluoromethane	0.50		U
75-35-4	1,1-Dichloroethene	0.50		U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50		U
75-09-2	Methylene chloride	1.0		U
1634-04-4	Methyl tert-butyl ether	0.50		U
156-60-5	trans-1,2-Dichloroethene	0.50		U
75-34-3	1,1-Dichloroethane	0.50		U
594-20-7	2,2-Dichloropropane	0.50		U
156-59-2	cis-1,2-Dichloroethene	0.50		U
78-93-3	2-Butanone	5.0		U
74-97-5	Bromochloromethane	0.50		U
67-66-3	Chloroform	0.50		U
71-55-6	1,1,1-Trichloroethane	0.50		U
56-23-5	Carbon tetrachloride	0.50		U
563-58-6	1,1-Dichloropropene	0.50		U
71-43-2	Benzene	0.50		U
107-06-2	1,2-Dichloroethane	0.50		U
79-01-6	Trichloroethene	0.50		U
78-87-5	1,2-Dichloropropane	0.50		U
74-95-3	Dibromomethane	0.50		U
75-27-4	Bromodichloromethane	0.50		U
10061-01-	cis-1,3-Dichloropropene	0.50		U
108-10-1	4-Methyl-2-pentanone	5.0		U
108-88-3	Toluene	0.50		U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-1

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL63-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917015.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/06/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/17/2007 12:27

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-1

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL63-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917015.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/06/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/17/2007 12:27

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-12-9/6/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL63-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917016.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/06/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/17/2007 12:53

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-12-9/6/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL63  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-006  
 Lab File ID: B0917016.D  
 Date Collected: 09/06/2007  
 Date/Time Analyzed: 09/17/2007 12:53  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-12-9/6/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL63-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917016.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/06/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/17/2007 12:53

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-12-9/6/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL63-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917010.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/06/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/17/2007 10:19

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-12-9/6/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL63-007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917010.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/06/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/17/2007 10:19

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-12-9/6/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL63  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-007  
 Lab File ID: B0917010.D  
 Date Collected: 09/06/2007  
 Date/Time Analyzed: 09/17/2007 10:19  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-25-5

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL63  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-001  
 Lab File ID: B0917011.D  
 Date Collected: 09/17/2007  
 Date Analyzed: 09/17/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-25-4

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL63  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-002  
 Lab File ID: B0917012.D  
 Date Collected: 09/27/2007 *df*  
 Date Analyzed: 09/17/2007 *df*  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-25-3

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL63  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-003  
 Lab File ID: B0917013.D  
 Date Collected: 09/07/2007 *9/24/07*  
 Date Analyzed: 09/17/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-25-2

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL63-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917014.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/27/2007 *OK* *drufon*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/17/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-25-1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL63  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-005  
 Lab File ID: B0917015.D  
 Date Collected: 09/27/2007 *010 9/24/07*  
 Date Analyzed: 09/17/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
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Comments:



1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-12-9/6/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL63

Run Sequence: R021582

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL63-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0917016.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/07/2007 <sup>pk</sup> 9/24/07

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/17/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-12-9/6/07

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL63  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL)      mL  
 Level: (LOW/MED)       
 % Moisture: not dec.       
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume:      (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: JPL63-007  
 Lab File ID: B0917010.D  
 Date Collected: 09/09/2007 *09/24/07*  
 Date Analyzed: 09/17/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume:      (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
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03				
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Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B091707MVOWB1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL63  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021582  
 Lab Sample ID: B091707MVOWB1  
 Lab File ID: B0917007.D  
 Date Collected: \_\_\_\_\_  
 Date Analyzed: 09/17/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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Comments:

**FORMS SUMMARY**

**JPL63**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-25-5

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL63

Matrix (soil/water): Water

Lab Sample ID: JPL63-001

Level (low/med): LOW

Date Received: 09/07/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	5.39		E	M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-25-4

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL63

Matrix (soil/water): Water

Lab Sample ID: JPL63-002

Level (low/med): LOW

Date Received: 09/07/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	12.9		E	M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-25-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL63

Matrix (soil/water): Water

Lab Sample ID: JPL63-003

Level (low/med): LOW

Date Received: 09/07/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	13.1		E	M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-25-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL63

Matrix (soil/water): Water

Lab Sample ID: JPL63-004

Level (low/med): LOW

Date Received: 09/07/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	12.2		E	M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-25-1

Lab Name: Laucks LaboratoriesContract: JPL Groundwater MonitorinLab Code: LAUCKSSDG No.: JPL63Matrix (soil/water): WaterLab Sample ID: JPL63-005Level (low/med): LOWDate Received: 09/07/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	2.00	U		M	R021433

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-12-9/6/07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL63

Matrix (soil/water): Water

Lab Sample ID: JPL63-006

Level (low/med): LOW

Date Received: 09/07/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U	E	M	R021348

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**FORMS SUMMARY**

**JPL63**

**Miscellaneous Inorganics**

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL63  
Sample Number: MW-25-5 Date/Time Collected: 09/06/2007 07:51  
Lab Sample ID: JPL63-001 Date/Time Received: 09/07/2007 10:15  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	09/17/2007	09/19/2007	R021577

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL63  
Sample Number: MW-25-4 Date/Time Collected: 09/06/2007 08:25  
Lab Sample ID: JPL63-002 Date/Time Received: 09/07/2007 10:15  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2.5	2.5	U	2.5	0.35	09/17/2007	09/19/2007	R021577

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL63  
Sample Number: MW-25-3 Date/Time Collected: 09/06/2007 08:57  
Lab Sample ID: JPL63-003 Date/Time Received: 09/07/2007 10:15  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	10		4.0	0.56	09/17/2007	09/19/2007	R021577

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL63  
Sample Number: MW-25-2 Date/Time Collected: 09/06/2007 09:26  
Lab Sample ID: JPL63-004 Date/Time Received: 09/07/2007 10:15  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	14		4.0	0.56	09/17/2007	09/19/2007	R021577

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL63  
Sample Number: MW-25-1 Date/Time Collected: 09/06/2007 09:59  
Lab Sample ID: JPL63-005 Date/Time Received: 09/07/2007 10:15  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	6.3		4.0	0.56	09/17/2007	09/19/2007	R021577



Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL63  
Sample Number: EB-12-9/6/07 Date/Time Collected: 09/06/2007 09:44  
Lab Sample ID: JPL63-006 Date/Time Received: 09/07/2007 10:15  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	09/17/2007	09/19/2007	R021577

**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG.: JPL64**

**OCTOBER 5, 2007**

# LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL64  
Date of Report: October 5, 2007

## **SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:**

### **Sample Receipt and Identification:**

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<b><u>Client Sample Identification</u></b>	<b><u>Laucks Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-7	JPL64-001	VOA/MET/PER/ANIONS
MW-16	JPL64-002	VOA/MET/PER/ANIONS
DUPE-5-3607	JPL64-003	VOA/MET/PER/ANIONS
TB-14-9/11/07	JPL64-004	VOA

### **Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)  
ANIONS = Chloride, Nitrate, Nitrite, Sulfate, Ortho phosphorus (300.0)

### **Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.

Notification of these discrepancies was included in the sample receipt confirmation sent to the client on **September 12, 2007** via email.

One of two vials submitted for JPL64-004(TB-14-9/11/07) contained bubbles of less than 1/4 inch in size.

### **GENERAL REMARKS ON ORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

### Holding Time Compliance:

#### *Volatile Organic Compounds:*

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

### Volatiles Fraction:

#### Initial Calibration Verification:

Analysis of the second source standard yielded a % D value for dichlorodifluoromethane that exceeded 30%. A second source standard is used daily to prepare a blank spike. Because the recovery for this analyte was within the control limit in the blank spike; no further action was taken.

#### Continuing Calibration Verification (CCV):

In the CCV performed on 9/19/2007 the percent D value for 2,2-dichloropropane exceeded 20% due to increased response. This analyte was not detected in any associated samples; no further action was taken.

#### Method Blank

Analysis of the method blank performed on 9/19/2007 resulted in the detection of methylene chloride at the reporting limit. The presence of this analyte may be due to laboratory contamination since it is a common laboratory solvent. Because the blank was compliant; no further action was taken.

#### Quality Control Analyses:

Analysis of the blank spike S091907MVOWB1 yielded a high recovery for 2,2-dichloropropane and a low recovery for dichlorodifluoromethane. 2,2-dichloropropane was not detected in the samples. Because sample results were reported well below the reporting limit (RL) the chance of reporting any false negatives for dichlorodifluoromethane was negligible.

### **GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

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Seattle, WA 98108

## ICP Metals:

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

## **SPECIFIC REMARKS ON INORGANIC ANALYSES:**

### Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

### Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

### Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None
Chloride	28 days	None
Sulfate	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None

### ICP-MS Metals:

Samples in this SDG (JPL64) were prepared along with other client samples and sample-level QC was performed on a batch-level basis. Although samples from this SDG were not selected for sample-level QC, comments regarding matrix spike/matrix spike duplicate samples and serial dilution samples apply to all samples digested and analyzed together. Sample level QC and analytical time can be seen on Form 14. For QC results, see SDG JPL65 and JPL66.

### Miscellaneous Inorganics:

For run sequence R021479, the Initial Calibration Verification/Blank Spike recoveries were outside the established control limits for the nitrite analysis. All sample results were less than the reporting limit. Therefore, no further action was taken.

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### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
  - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
  - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
  - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
  - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
  - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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Seattle, WA 98108

INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
  - E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
  - N Spiked sample recovery not within control limits.
  - \* Duplicate analysis not within control limits.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**LAUCKS TESTING LABORATORIES**

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Seattle, WA 98108

RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,



Kara Godineaux  
Project Manager

10/5/07  
(DATE)



Harry Romberg  
Quality Assurance Officer

10/5/07  
(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.



**LAUCKS TESTING LABORATORIES**  
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Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies

**LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG**

Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	300.0 Low Level NO3, NO2, Cl, SO4, OPO4	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)
JPL64-001	09/12/2007 10:40 AM	09/11/2007 09:23 AM	MW-7	IN	IN	IN	IN
JPL64-002	09/12/2007 10:40 AM	09/11/2007 09:23 AM	MW-16	IN	IN	IN	IN
JPL64-003	09/12/2007 10:40 AM	09/11/2007 09:23 AM	DUPE-5-3607	IN	IN	IN	IN
JPL64-004	09/12/2007 10:40 AM	09/11/2007 09:23 AM	TB-14-9/11/07				IN

Approved By: *[Signature]* On: 9/12/07

Notes: *[Signature]*

LEGEND: -:Started, +:Completed, IN:Logged In, P:Preparation, A:Analysis, X:Cancelled, PL:Pre-logged  
 Samples identified with a \* client has requested QC for  
 FORM LTL-PM-8.0

THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

4095

COMPANY: BATELLE  
 ADDRESS: 3990 OLD TOWN AVE, C-205  
SAV DICE, CA 92110  
 ATTENTION: DAVID CONNER  
 PROJECT NAME: SPL GW MOB, 3907  
 PROJECT CONTACT: DAVID CONNER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/PO. NO.: CA486990/210 640

CHAIN OF CUSTODY RECORD  
 43085

SDG # JPL-64  
 PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_

SUBMITTED AT: \_\_\_\_\_

TESTS TO PERFORM

MATRIX: WATER, SOIL OR SPECIFY  
 NO. OF CONTAINERS  
VOL (574.2)  
TOTAL CR (200.8)  
ClO4 - (514.0)  
4-50% IN WATER  
D-PHOSPHATE (300.0)



940 South Tranny St, Seattle, WA 98108 (206) 757-5060 FAX 767-5063  
 1100 Lakeside Ave., Yuba City, WA 98902 (509) 266-4005 FAX 457-1265

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

LAB S/N	SAMPLE ID / LOCATION	DATE	TIME	MATRIX	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1	MW-7	9/11/07	923	W	5	X X X X X	
2	MW-16	9/11/07	1147	W	1	X X X X	DUPLICATE
3	DUP-5-31007	9/11/07	---	W	1	X X X X	DUPLICATE
4	TB-14-9/11/07	9/11/07	---	W	2	X X	TYPE BLANK

A. A standard turnaround time is assumed unless otherwise marked.

B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS:  
 1. USE ONE LINE PER SAMPLE.  
 2. BE SPECIFIC IN TEST REQUESTS.  
 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

NAME: BATELLE  
 ATTN: GERALD TARDYUS  
 ADDRESS: 505 141st AVE.  
 CITY, STATE, ZIP: COLUMBIA, OH 43201

BILLING INFORMATION (IF DIFFERENT THAN ABOVE)

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TURNAROUND REQUEST  
 STD. 10-14 WORKING DAYS  
 24-48 HRS. (100% SUR)  
 72 HRS. (75% SUR)  
 5 DAYS (50% SUR)  
 OTHER \_\_\_\_\_  
 TEMP \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  N/A

RELIQUISHED BY (SIGN AND PRINT): MARCO MENDONA  
 DATE: 9/11/07  
 TIME: 1230

RECEIVED BY (SIGN AND PRINT): \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 TIME: \_\_\_\_\_

Financial Charges and/or Collection Fees may be applied to delinquent accounts.

FINAL REPORT COPY

**FORM SUMMARY**

SDG # JPL64

Volatiles Analysis

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7

Lab Name: \_\_\_\_\_  
 SDG No.: JPL64  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021689  
 Lab Sample ID: JPL64-001  
 Lab File ID: B0919031.D  
 Date Collected: 09/11/2007  
 Date/Time Analyzed: 09/19/2007 20:17  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	2.0	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	3.7	
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.41	J

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7

Lab Name: \_\_\_\_\_  
 SDG No.: JPL64  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021689  
 Lab Sample ID: JPL64-001  
 Lab File ID: B0919031.D  
 Date Collected: 09/11/2007  
 Date/Time Analyzed: 09/19/2007 20:17  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	5.8	
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	6.1	
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7

Lab Name: \_\_\_\_\_  
 SDG No.: JPL64  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021689  
 Lab Sample ID: JPL64-001  
 Lab File ID: B0919031.D  
 Date Collected: 09/11/2007  
 Date/Time Analyzed: 09/19/2007 20:17  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-16

Lab Name: \_\_\_\_\_  
 SDG No.: JPL64  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021689  
 Lab Sample ID: JPL64-002  
 Lab File ID: B0919032.D  
 Date Collected: 09/11/2007  
 Date/Time Analyzed: 09/19/2007 20:43  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	2.4	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	22	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	5.1	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.53	



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-16

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin  
 SDG No.: JPL64 Run Sequence: R021689  
 Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL64-002  
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0919032.D  
 Level: (LOW/MED) \_\_\_\_\_ Date Collected: 09/11/2007  
 % Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/19/2007 20:43  
 GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.5	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-16

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL64

Run Sequence: R021689

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL64-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0919032.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/11/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/19/2007 20:43

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-5-3607

Lab Name: \_\_\_\_\_  
 SDG No.: JPL64  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021689  
 Lab Sample ID: JPL64-003  
 Lab File ID: B0919033.D  
 Date Collected: 09/11/2007  
 Date/Time Analyzed: 09/19/2007 21:08  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	2.1	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	21	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	5.1	
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.32	J
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.61	

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-5-3607

Lab Name: \_\_\_\_\_  
 SDG No.: JPL64  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021689  
 Lab Sample ID: JPL64-003  
 Lab File ID: B0919033.D  
 Date Collected: 09/11/2007  
 Date/Time Analyzed: 09/19/2007 21:08  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.4	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-5-3607

Lab Name: \_\_\_\_\_  
 SDG No.: JPL64  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021689  
 Lab Sample ID: JPL64-003  
 Lab File ID: B0919033.D  
 Date Collected: 09/11/2007  
 Date/Time Analyzed: 09/19/2007 21:08  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-14-9/11/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL64  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021689  
 Lab Sample ID: JPL64-004  
 Lab File ID: B0919022.D  
 Date Collected: 09/11/2007  
 Date/Time Analyzed: 09/19/2007 16:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-14-9/11/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL64  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021689  
 Lab Sample ID: JPL64-004  
 Lab File ID: B0919022.D  
 Date Collected: 09/11/2007  
 Date/Time Analyzed: 09/19/2007 16:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-14-9/11/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL64

Run Sequence: R021689

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL64-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0919022.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/11/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/19/2007 16:25

GC Column: ZE-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:



1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-7

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL64

Run Sequence: R021689

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL64-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0919031.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/19/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-16

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL64  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021689  
 Lab Sample ID: JPL64-002  
 Lab File ID: B0919032.D  
 Date Collected: 09/12/2007  
 Date Analyzed: 09/19/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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21				
22				
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24				
25				
26				
27				
28				
29				
30				

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUPE-5-3607

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL64

Run Sequence: R021689

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL64-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0919033.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/19/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-14-9/11/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL64

Run Sequence: R021689

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL64-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0919022.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/19/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
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28				
29				
30				

Comments:

**FORMS SUMMARY**

**JPL64**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-7

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL64

Matrix (soil/water): Water

Lab Sample ID: JPL64-001

Level (low/med): LOW

Date Received: 09/12/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	14.5			M	R021662

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-16

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL64

Matrix (soil/water): Water

Lab Sample ID: JPL64-002

Level (low/med): LOW

Date Received: 09/12/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	12.7			M	R021662

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-5-3607

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL64

Matrix (soil/water): Water

Lab Sample ID: JPL64-003

Level (low/med): LOW

Date Received: 09/12/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	13.0			M	R021662

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**FORMS SUMMARY**

**JPL64**

**Miscellaneous Inorganics**







**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG.: JPL65**

**OCTOBER 5, 2007**

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL65  
Date of Report: October 5, 2007

**SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:**

**Sample Receipt and Identification:**

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Laucks Sample Identification</u>	<u>Testing Analytical Request</u>
MW-5	JPL65-001	VOA/MET/PER
MW-15	JPL65-002	MET
DUPE-3-3Q07	JPL65-003	MET
TB-13-9/7/07	JPL65-004	VOA
MW-6	JPL65-005	VOA/MET/PER
DUPE-4-3Q07	JPL65-006	VOA/MET/PER

**Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.

Two of two volatiles bottles submitted for TB-13-9/7/07 contained bubbles of less than 1/4 inch in size. Two of three volatiles bottles submitted for MW-6 contained bubbles of less than 1/4 inch in size. One of three volatiles bottles submitted for DUPE-4-3Q07 contained bubbles of less than 1/4 inch in size.

**GENERAL REMARKS ON ORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

**Manual Integrations:**

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

### Holding Time Compliance:

#### *Volatile Organic Compounds:*

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

### Volatiles Fraction:

#### Initial Calibration Verification:

In the ICV, dichlorodifluoromethane exceeded 25% due to decreased response; no further action was taken.

#### Continuing Calibration Verification (CCV):

In the CCV performed on 9/19/2007 the percent D value for 2,2-dichloropropane exceeded 20% due to increased response. This analyte was not detected in any associated samples; no further action was taken.

In the CCV performed on 9/20/2007 the percent D value for 2,2-dichloropropane exceeded 20% due to increased response. This analyte was not detected in any associated samples so no further action was taken.

In the CCV performed on 9/21/2007 the percent D value for 2,2-dichloropropane exceeded 20% due to increased response. This analyte was not detected in any associated samples; no further action was taken. Analysis of the same CCV yielded percent D values for bromoform and hexachlorobutadiene that exceeded the control limit due to decreased response. Because sample results were reported well below the reporting limit (RL) the chance of reporting any false negatives for these compounds that recovered low at the RL was negligible.

#### Method Blank

Analysis of the method blank performed on 9/19/2007 resulted in the detection of methylene chloride at the reporting limit. The presence of this analyte may be due to laboratory contamination since it is a common laboratory solvent. Because the blank was compliant and because this analyte was not detected in the samples, no further action was taken.

#### Quality Control Analyses:

Analysis of the blank spike S091907MVOWB1 yielded a high recovery for 2,2-dichloropropane and a low recovery for dichlorodifluoromethane. 2,2-dichloropropane was not detected in the samples. Because sample results were reported well below the reporting limit (RL) the chance of reporting any false negatives for dichlorodifluoromethane was negligible.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

Analysis of the blank spike S092007MVOWB2 yielded a high recovery for 2,2-dichloropropane. This analyte was not detected in the samples; no further action was taken.

Analysis of the blank spike S092107MVOWB1 yielded a high recovery for 2,2-dichloropropane. This analyte was not detected in the samples; no further action was taken.

The MS/MSD analyses performed on sample MW-5 yielded low recoveries for two analytes. These analytes were in control in the associated blank spike analysis; no further action was taken.

### **GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

#### **ICP Metals:**

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

### **SPECIFIC REMARKS ON INORGANIC ANALYSES:**

#### **Holding Time Compliance:**

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

#### **Metals:**

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

#### **Miscellaneous:**

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None

#### **ICP-MS Metals:**

No comments.

#### **Miscellaneous Inorganics:**

No comments.



## LAUCKS TESTING LABORATORIES

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Seattle, WA 98108

### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
  - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
  - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
  - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
  - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
  - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

**LAUCKS TESTING LABORATORIES**

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Seattle, WA 98108

INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
  - E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
  - N Spiked sample recovery not within control limits.
  - \* Duplicate analysis not within control limits.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**LAUCKS TESTING LABORATORIES**

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Seattle, WA 98108

RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

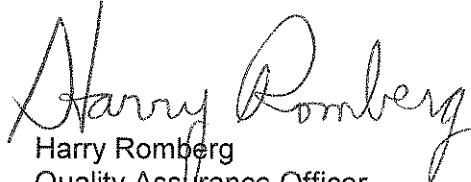
Respectfully submitted,



Kara Godineaux  
Project Manager

10/5/07

(DATE)



Harry Romberg  
Quality Assurance Officer

10/5/07

(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

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**ATTACHMENT A**

Chain-of-Custody Copies

**LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG**

Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)
*JPL65-001	09/12/2007 10:30 AM	09/07/2007 08:36 AM	MW-5	IN	IN	IN
JPL65-002	09/12/2007 10:30 AM	09/07/2007 10:05 AM	MW-15	IN		
JPL65-003	09/12/2007 10:30 AM	09/07/2007 12:00 AM	DUPE-3-3Q07	IN		
JPL65-004	09/12/2007 10:30 AM	09/07/2007 12:00 AM	TB-13-9/7/07			IN
JPL65-005	09/12/2007 10:30 AM	09/10/2007 10:28 AM	MW-6	IN	IN	IN
JPL65-006	09/12/2007 10:30 AM	09/10/2007 12:00 AM	DUPE-4-3Q07	IN	IN	IN

Approved By:

*[Signature]*

On:

*9/12/07*

Samples identified with a "\*" Client has requested QC for

LEGEND: -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged

FORM LTL-PM-8.0





**FORM SUMMARY**

SDG # JPL65

Volatiles Analysis



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL65  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021771  
 Lab Sample ID: JPL65-001  
 Lab File ID: B0920022.D  
 Date Collected: 09/07/2007  
 Date/Time Analyzed: 09/20/2007 16:55  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	1.2	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.5	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL65  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021771  
 Lab Sample ID: JPL65-001  
 Lab File ID: B0920022.D  
 Date Collected: 09/07/2007  
 Date/Time Analyzed: 09/20/2007 16:55  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.35	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-5

Lab Name: \_\_\_\_\_  
 SDG No.: JPL65  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021771  
 Lab Sample ID: JPL65-001  
 Lab File ID: B0920022.D  
 Date Collected: 09/07/2007  
 Date/Time Analyzed: 09/20/2007 16:55  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	<u>ug/L</u>	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-13-9/7/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL65

Run Sequence: R021689

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL65-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0919034.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/07/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/19/2007 21:34

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-13-9/7/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL65  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021689  
 Lab Sample ID: JPL65-004  
 Lab File ID: B0919034.D  
 Date Collected: 09/07/2007  
 Date/Time Analyzed: 09/19/2007 21:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-13-9/7/07

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin  
 SDG No.: JPL65 Run Sequence: R021689  
 Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL65-004  
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0919034.D  
 Level: (LOW/MED) \_\_\_\_\_ Date Collected: 09/07/2007  
 % Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/19/2007 21:34  
 GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-6

Lab Name: \_\_\_\_\_  
 SDG No.: JPL65  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021689  
 Lab Sample ID: JPL65-005  
 Lab File ID: B0919035.D  
 Date Collected: 09/10/2007  
 Date/Time Analyzed: 09/19/2007 22:00  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.79	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.69	
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.63	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.5	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-6

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL65

Run Sequence: R021689

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL65-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0919035.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/10/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/19/2007 22:00

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.4	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-6

Lab Name: \_\_\_\_\_  
 SDG No.: JPL65  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021689  
 Lab Sample ID: JPL65-005  
 Lab File ID: B0919035.D  
 Date Collected: 09/10/2007  
 Date/Time Analyzed: 09/19/2007 22:00  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-4-3Q07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL65

Run Sequence: R021771

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL65-006

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0920023.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/10/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/20/2007 17:21

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.85	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.65	
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.53	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.5	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-4-3Q07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL65  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021771  
 Lab Sample ID: JPL65-006  
 Lab File ID: B0920023.D  
 Date Collected: 09/10/2007  
 Date/Time Analyzed: 09/20/2007 17:21  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.4	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-4-3Q07

Lab Name: \_\_\_\_\_ Contract: JPL Groundwater Monitorin

SDG No.: JPL65 Run Sequence: R021771

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JPL65-006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: B0920023.D

Level: (LOW/MED) \_\_\_\_\_ Date Collected: 09/10/2007

% Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 09/20/2007 17:21

GC Column: ZB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-5

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL65

Run Sequence: R021771

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL65-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0920022.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/20/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-13-9/7/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL65

Run Sequence: R021689

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL65-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0919034.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/19/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
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23				
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25				
26				
27				
28				
29				
30				

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-6

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL65

Run Sequence: R021689

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL65-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0919035.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/19/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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14				
15				
16				
17				
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23				
24				
25				
26				
27				
28				
29				
30				

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUPE-4-3Q07

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL65  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021771  
 Lab Sample ID: JPL65-006  
 Lab File ID: B0920023.D  
 Date Collected: 09/12/2007  
 Date Analyzed: 09/20/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
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Comments:



**FORMS SUMMARY**

**JPL65**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-5

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL65

Matrix (soil/water): Water

Lab Sample ID: JPL65-001

Level (low/med): LOW

Date Received: 09/12/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	14.7			M	R021662

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-15

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL65

Matrix (soil/water): Water

Lab Sample ID: JPL65-002

Level (low/med): LOW

Date Received: 09/12/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	11.7			M	R021662

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-3-3Q07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL65

Matrix (soil/water): Water

Lab Sample ID: JPL65-003

Level (low/med): LOW

Date Received: 09/12/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	12.3			M	R021662

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-6

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL65

Matrix (soil/water): Water

Lab Sample ID: JPL65-005

Level (low/med): LOW

Date Received: 09/12/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	15.1			M	R021662

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-4-3Q07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL65

Matrix (soil/water): Water

Lab Sample ID: JPL65-006

Level (low/med): LOW

Date Received: 09/12/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	15.9			M	R021662

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**FORMS SUMMARY**

**JPL65**

**Miscellaneous Inorganics**

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL65  
Sample Number: MW-5 Date/Time Collected: 09/07/2007 08:36  
Lab Sample ID: JPL65-001 Date/Time Received: 09/12/2007 10:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	39		2.0	0.28	09/20/2007	09/21/2007	R021679



Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL65  
Sample Number: MW-6 Date/Time Collected: 09/10/2007 10:28  
Lab Sample ID: JPL65-005 Date/Time Received: 09/12/2007 10:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/20/2007	09/21/2007	R021679

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL65  
Sample Number: DUPE-4-3Q07 Date/Time Collected: 09/10/2007 00:00  
Lab Sample ID: JPL65-006 Date/Time Received: 09/12/2007 10:30  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/20/2007	09/21/2007	R021679

**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG.: JPL66**

**OCTOBER 5, 2007**

# LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL66  
Date of Report: October 5, 2007

## **SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:**

### **Sample Receipt and Identification:**

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<b><u>Client Sample Identification</u></b>	<b><u>Laucks Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-13	JPL66-001	VOA/MET/PER/ANIONS
MW-8	JPL66-002	VOA/MET/PER/ANIONS
DUPE-6-3Q07	JPL66-003	VOA/MET/PER/ANIONS
DUPE-7-3Q07	JPL66-004	VOA/MET/PER/ANIONS
TB-15-9/12/07	JPL66-005	VOA

### **Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)  
ANIONS = Chloride, Nitrate, Nitrite, Sulfate, Ortho phosphorus (300.0)

### **Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.

One of three volatiles bottles submitted for MW-13 contained bubbles of less than 1/4 inch in size.

One of three volatiles bottles submitted for MW-8 contained bubbles of less than 1/4 inch in size.

Two of three volatiles bottles submitted for DUPE-7-3Q07 contained bubbles of less than 1/4 inch in size.

The temperature blank was measured at a temperature below the control limit of  $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ .

Notification of these discrepancies was included in the sample receipt confirmation sent to the client on September 13, 2007 via email.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

#### Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

#### Holding Time Compliance:

##### *Volatile Organic Compounds:*

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

#### Volatiles Fraction:

##### Initial Calibration Verification (ICV) Standard:

Analysis of the the second source standard ICV090407MVOB1 performed on instrument 5973B yielded a % D value for dichlorodifluoromethane that exceeded 30%. A second source standard is used daily to prepare a blank spike. Because the recovery for this analyte was within the control limits in the blank spike S092107MVOWB1 and the analyte was not found in any associated sample analyses, no further action was taken.

##### Continuing Calibration Verification (CCV):

In the CCV performed on 9/21/07 the %D value for 2,2-dichloropropane exceeded 30% due to increased response. Because it was not detected in any associated samples, no further action was taken.

Also, in the CCV performed on 9/21/07 the %D values for bromoform and hexachlorobutadiene exceeded 30% due to decreased response. These analytes were not detected in any associated samples. Additionally, because sample results are reported well below the reporting limit (RL) the chance of reporting any false negatives for bromoform and hexachlorobutadiene at the RL was negligible.

##### Quality Control Analyses:

Analysis of the blank spike S092107MVOWB1 yielded a high recovery value for 2,2-dichloropropane. Because this analyte was not detected in any associated samples and all other analyte recoveries were within the control limits, no further action was taken.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

**GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

**ICP Metals:**

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

**SPECIFIC REMARKS ON INORGANIC ANALYSES:**

**Holding Time Compliance:**

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

**Metals:**

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

**Miscellaneous:**

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None
Chloride	28 days	None
Sulfate	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None

**ICP-MS Metals:**

No comments.

**Miscellaneous Inorganics:**

For run sequence R021479, the Initial Calibration Verification/Blank Spike recovery was outside the established control limits for the nitrite analysis. All sample results were less than the reporting limit. Therefore, no further action was taken.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

For run sequence R021479, the matrix spike and matrix spike duplicate recoveries were outside of the established control limits for the chloride, nitrate and sulfate analysis for sample MW-13. All other quality control elements were within control limits. Therefore, no further action was taken.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
- J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
- T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
- E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
- P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
- C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.



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INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
  - E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
  - N Spiked sample recovery not within control limits.
  - \* Duplicate analysis not within control limits.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

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RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,

  
Kara Godineaux  
Project Manager

  
Harry Romberg  
Quality Assurance Officer

10/5/07  
(DATE)

10/5/07  
(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

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**ATTACHMENT A**

Chain-of-Custody Copies

**LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG**

Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	300.0 Low Level NO3, NO2, Cl, SO4, OPO4	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)
*JPL66-001	09/13/2007 08:20 AM	09/12/2007 08:46 AM	MW-13	IN	A-	IN	IN
*JPL66-002	09/13/2007 08:20 AM	09/12/2007 10:38 AM	MW-8	IN	A-	IN	IN
JPL66-003	09/13/2007 08:20 AM	09/12/2007 12:00 AM	DUPE-6-3Q07	IN	A-	IN	IN
JPL66-004	09/13/2007 08:20 AM	09/12/2007 12:00 AM	DUPE-7-3Q07	IN	A-	IN	IN
JPL66-005	09/13/2007 08:20 AM	09/12/2007 12:00 AM	TB-15-9/12/07				IN

Approved By:

*[Signature]*

*[Signature]*

On:

*9/13/07*

Samples identified with a '\*' client has requested QC for

LEGEND: -:Started, +:Completed, IN:Logged In, P:Preparation, A:Analysis, X:Cancelled, PL:Pre-logged

FORM LTL-PM-8.0


THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

COMPANY: BOTTLE  
 ADDRESS: 3990 OLD TOWN AVE., C-205  
SAV DENO, CA 92110  
 ATTENTION: DAVID COVER  
 PROJECT NAME: SPL GW. MON. 3007  
 PROJECT CONTACT: DAVID COVER  
 TELEPHONE: 619-724-7311 FAX: \_\_\_\_\_  
 JOB/PO. NO.: 6486090/210640

CHAIN OF CUSTODY RECORD SDG # 5PL66  
 43086  
 WORK ORDER ID# \_\_\_\_\_  
 PAGE 1 OF 1

SUBMITTED AT: \_\_\_\_\_

TESTS TO PERFORM

Testing Laboratories, Inc.   
 940 South Liberty St., Seattle WA 98106 (206) 327-5300 FAX 767-5066  
 1100 University Ave., Federal WA 98002 (509) 285-9095 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
	<u>NO (524.2)</u> <u>TOTAL Cr (600.8)</u> <u>ClO<sub>4</sub> - (314.0)</u> <u>Cl<sup>-</sup>, SO<sub>4</sub><sup>-2</sup>, NITRATE, NITRITE</u> <u>0-1000 mg/L (300.0)</u>	

LAB #	SAMPLE ID / LOCATION	DATE	TIME	MATRIX	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1	MW-13	5/12/07	846	W	5 + + + + +		LEVEL IT OC
2	MW-8		1038	W	10 + + + + +		MS/MSD
3	DUPE-6-3007			W	5 + + + + +		DUPLICATE
4	DUPE-7-3007			W	5 + + + + +		DUPLICATE
5	TR-15-9/12/07			W	2 +		TOP GRADE

A. A standard turnaround time is assumed unless otherwise marked.  
 B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

**INSTRUCTIONS**

- USE ONE LINE PER SAMPLE
- BE SPECIFIC IN TEST REQUESTS.
- CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

**BILLING INFORMATION - DIFFERENT THAN ABOVE**

NAME: BOTTLE ADDRESS: 505 KULLA AVE.  
 ATTN: GERALD TAMPKILS CITY, STATE, ZIP: COLUMBUS, OH 43201

RELINQUISHED BY (SIGN AND PRINT): [Signature] DATE: 9/12/07  
 RECEIVED BY (SIGN AND PRINT): [Signature] DATE: 9/12/07

**\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL**

**TURNAROUND REQUEST**

STD. 10-14 WORKING DAYS  
 24-48 HRS. (100% SUR)  
 72 HRS. (75% SUR)  
 5 DAYS (60% SUR)  
 OTHER: \_\_\_\_\_  
 TEMP. \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  N/A

# **FORMS SUMMARY**

**SDG# JPL66**

**Volatiles**

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-13

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL66-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921013.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 11:25

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.75	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.83	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.44	J

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-13

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL66-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921013.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 11:25

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.42	J
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-13

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL66-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921013.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 11:25

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8

Lab Name: \_\_\_\_\_  
 SDG No.: JPL66  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021786  
 Lab Sample ID: JPL66-002  
 Lab File ID: B0921014.D  
 Date Collected: 09/12/2007  
 Date/Time Analyzed: 09/21/2007 11:51  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	1.1	
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.51	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.49	J
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.30	J

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL66-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921014.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 11:51

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.59	
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8

Lab Name: \_\_\_\_\_  
 SDG No.: JPL66  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021786  
 Lab Sample ID: JPL66-002  
 Lab File ID: B0921014.D  
 Date Collected: 09/12/2007  
 Date/Time Analyzed: 09/21/2007 11:51  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-6-3Q07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL66-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921015.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 12:17

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.76	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.83	
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.38	J

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-6-3Q07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL66-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921015.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 12:17

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
10061-02-	trans-1,3-Dichloropropene	0.50		U
79-00-5	1,1,2-Trichloroethane	0.50		U
127-18-4	Tetrachloroethene	0.43		J
142-28-9	1,3-Dichloropropane	0.50		U
124-48-1	Dibromochloromethane	0.50		U
106-93-4	1,2-Dibromoethane	0.50		U
108-90-7	Chlorobenzene	0.50		U
100-41-4	Ethylbenzene	0.50		U
630-20-6	1,1,1,2-Tetrachloroethane	0.50		U
179601-23	m,p-Xylene	1.0		U
95-47-6	o-Xylene	0.50		U
100-42-5	Styrene	0.50		U
75-25-2	Bromoform	0.50		U
98-82-8	Isopropylbenzene	0.50		U
79-34-5	1,1,2,2-Tetrachloroethane	0.50		U
103-65-1	n-Propylbenzene	0.50		U
108-86-1	Bromobenzene	0.50		U
96-18-4	1,2,3-Trichloropropane	0.50		U
95-49-8	2-Chlorotoluene	0.50		U
108-67-8	1,3,5-Trimethylbenzene	0.50		U
106-43-4	4-Chlorotoluene	0.50		U
98-06-6	tert-Butylbenzene	0.50		U
95-63-6	1,2,4-Trimethylbenzene	0.50		U
135-98-8	sec-Butylbenzene	0.50		U
99-87-6	4-Isopropyltoluene	0.50		U
541-73-1	1,3-Dichlorobenzene	0.50		U
106-46-7	1,4-Dichlorobenzene	0.50		U
104-51-8	n-Butylbenzene	0.50		U
95-50-1	1,2-Dichlorobenzene	0.50		U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-6-3Q07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL66-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921015.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 12:17

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-7-3Q07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL66-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921016.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 12:43

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.85	
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.48	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.29	J



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-7-3Q07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL66-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921016.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 12:43

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.58	
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-7-3Q07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL66-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921016.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 12:43

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-15-9/12/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL66-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921012.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 10:59

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-15-9/12/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL66-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921012.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 10:59

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-15-9/12/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL66-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921012.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/12/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 10:59

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-13

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL66  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021786  
 Lab Sample ID: JPL66-001  
 Lab File ID: B0921013.D  
 Date Collected: 09/23/2007 *9/21/07*  
 Date Analyzed: 09/21/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-8

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL66-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921014.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/23/2007 <sup>12-</sup> 9/24/07 *[Signature]*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/21/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUPE-6-3Q07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL66-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921015.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/23/2007 *9/21/07*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/21/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:



1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUPE-7-3Q07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL66-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921016.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/23/2007 9/24/07

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/21/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-15-9/12/07

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL66

Run Sequence: R021786

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL66-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921012.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/23/2007 <sup>13</sup> 9/24/07

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/21/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:

**FORMS SUMMARY**

**JPL66**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-13

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL66

Matrix (soil/water): Water

Lab Sample ID: JPL66-001

Level (low/med): LOW

Date Received: 09/13/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	83.2			M	R021662

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-8

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL66

Matrix (soil/water): Water

Lab Sample ID: JPL66-002

Level (low/med): LOW

Date Received: 09/13/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	18.4			M	R021662

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-6-3Q07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL66

Matrix (soil/water): Water

Lab Sample ID: JPL66-003

Level (low/med): LOW

Date Received: 09/13/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	85.7			M	R021662

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-7-3Q07

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL66

Matrix (soil/water): Water

Lab Sample ID: JPL66-004

Level (low/med): LOW

Date Received: 09/13/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	16.8			M	R021662

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**FORMS SUMMARY**

**JPL66**

**Miscellaneous Inorganics**











**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG.: JPL67**

**OCTOBER 5, 2007**

# LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL67  
Date of Report: October 5, 2007

## SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

### Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Laucks Sample Identification</u>	<u>Testing Analytical Request</u>
MW-10	JPL67-001	VOA/MET/PER
TB-16-9/13/07	JPL67-002	VOA

### Analytical Request Key:

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)

### Sample Receipt Comments:

The following discrepancies were noted in association with the receipt of these samples.

The temperature blank was measured at a temperature below the control limit of  $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ . One of three volatiles bottles submitted for MW-10 contained bubbles of less than 1/4 inch in size. The client was notified of this discrepancy on September 17, 2007 via email.

## GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

### Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M Manual integration due to irregular peak shape  
MS Manual integration due to split peak

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL67  
Date of Report: October 5, 2007

**SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:**

**Sample Receipt and Identification:**

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Laucks Sample Identification</u>	<u>Testing Analytical Request</u>
MW-10	JPL67-001	VOA/MET/PER
TB-16-9/13/07	JPL67-002	VOA

**Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.

The temperature blank was measured at a temperature below the control limit of 4°C ± 2°C. The client was notified of this discrepancy on September 17, 2007 via email.

**GENERAL REMARKS ON ORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

**Manual Integrations:**

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M Manual integration due to irregular peak shape  
MS Manual integration due to split peak  
MR Manual integration due to retention time shift

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

### **Holding Time Compliance:**

#### *Volatile Organic Compounds:*

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

### **Volatiles Fraction:**

#### Initial Calibration Verification (ICV) Standard:

Analysis of the the second source standard ICV090407MVOB1 performed on instrument 5973B yielded a % D value for dichlorodifluoromethane that exceeded 30%. A second source standard is used daily to prepare a blank spike. Because the recovery for this analyte was within the control limits in the blank spike S092107MVOWB1 and the analyte was not found in any associated sample analyses, no further action was taken.

#### Continuing Calibration Verification (CCV):

In the CCV performed on 9/21/07 the %D value for 2,2-dichloropropane exceeded 30% due to increased response. Because it was not detected in any associated samples, no further action was taken.

Also, in the CCV performed on 9/21/07 the %D values for bromoform and hexachlorobutadiene exceeded 30% due to decreased response. These analytes were not detected in any associated samples. Additionally, because sample results are reported well below the reporting limit (RL) the chance of reporting any false negatives for bromoform and hexachlorobutadiene at the RL was negligible.

#### Quality Control Analyses:

Analysis of the blank spike S092107MVOWB1 yielded a high recovery value for 2,2-dichloropropane. Because this analyte was not detected in any associated samples and all other analyte recoveries were within the control limits, no further action was taken.

### **GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

#### **ICP-MS Metals:**

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.



**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

**SPECIFIC REMARKS ON INORGANIC ANALYSES:**

Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Perchlorate	28 days	None

ICP-MS Metals:

No comments.

Miscellaneous Inorganics:

No comments.

## LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
  - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
  - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
  - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
  - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
  - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

## LAUCKS TESTING LABORATORIES

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Seattle, WA 98108

### INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
  - E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
  - N Spiked sample recovery not within control limits.
  - \* Duplicate analysis not within control limits.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

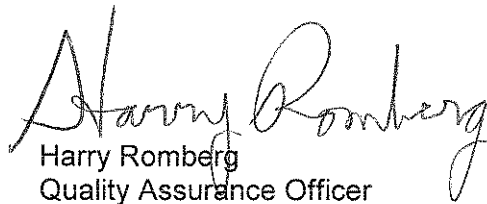
Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,

  
Kara Godineaux  
Project Manager

10/5/07  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

10/5/07  
(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies

**LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG**

Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	314.0 Perchlorate	524.2 Volatile Organics + TICs (JPL Special list)
JPL67-001	09/14/2007 08:15 AM	09/13/2007 08:55 AM	MW-10	IN	IN	IN
JPL67-002	09/14/2007 08:15 AM	09/13/2007 12:00 AM	TB-16-9/13/07			IN

Approved By:

*Maac* *Stedman* On: *9/17/07*

Notes:

Samples identified with a "\*" client has requested QC for

**LEGEND:** -:Started , +:Completed , IN:logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged

**FORM LTL-PM-8.0**



# **FORMS SUMMARY**

**SDG# JPL67**

**Volatiles**



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-10

Lab Name: \_\_\_\_\_  
 SDG No.: JPL67  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021786  
 Lab Sample ID: JPL67-001  
 Lab File ID: B0921017.D  
 Date Collected: 09/13/2007  
 Date/Time Analyzed: 09/21/2007 13:08  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
75-71-8	Dichlorodifluoromethane	0.50		U
74-87-3	Chloromethane	0.50		U
75-01-4	Vinyl chloride	0.50		U
74-83-9	Bromomethane	0.50		U
75-00-3	Chloroethane	0.50		U
75-69-4	Trichlorofluoromethane	0.50		U
75-35-4	1,1-Dichloroethene	0.50		U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50		U
75-09-2	Methylene chloride	1.0		U
1634-04-4	Methyl tert-butyl ether	0.50		U
156-60-5	trans-1,2-Dichloroethene	0.50		U
75-34-3	1,1-Dichloroethane	0.50		U
594-20-7	2,2-Dichloropropane	0.50		U
156-59-2	cis-1,2-Dichloroethene	0.50		U
78-93-3	2-Butanone	5.0		U
74-97-5	Bromochloromethane	0.50		U
67-66-3	Chloroform	0.70		
71-55-6	1,1,1-Trichloroethane	0.50		U
56-23-5	Carbon tetrachloride	0.50		U
563-58-6	1,1-Dichloropropene	0.50		U
71-43-2	Benzene	0.50		U
107-06-2	1,2-Dichloroethane	0.50		U
79-01-6	Trichloroethene	3.7		
78-87-5	1,2-Dichloropropane	0.50		U
74-95-3	Dibromomethane	0.50		U
75-27-4	Bromodichloromethane	0.50		U
10061-01-	cis-1,3-Dichloropropene	0.50		U
108-10-1	4-Methyl-2-pentanone	5.0		U
108-88-3	Toluene	0.36		J

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-10

Lab Name: \_\_\_\_\_  
 SDG No.: JPL67  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021786  
 Lab Sample ID: JPL67-001  
 Lab File ID: B0921017.D  
 Date Collected: 09/13/2007  
 Date/Time Analyzed: 09/21/2007 13:08  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.98	
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-10

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL67

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL67-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921017.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/13/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 13:08

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	0.50		U
120-82-1	1,2,4-Trichlorobenzene	0.50		U
87-68-3	Hexachlorobutadiene	0.50		U
91-20-3	Naphthalene	0.50		U
87-61-6	1,2,3-Trichlorobenzene	0.50		U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-16-9/13/07

Lab Name: \_\_\_\_\_

Contract: JPL Groundwater Monitorin

SDG No.: JPL67

Run Sequence: R021786

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL67-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921011.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/13/2007

% Moisture: not dec. \_\_\_\_\_

Date/Time Analyzed: 09/21/2007 10:34

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
75-09-2	Methylene chloride	1.0	U
1634-04-4	Methyl tert-butyl ether	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-16-9/13/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL67  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021786  
 Lab Sample ID: JPL67-002  
 Lab File ID: B0921011.D  
 Date Collected: 09/13/2007  
 Date/Time Analyzed: 09/21/2007 10:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
142-28-9	1,3-Dichloropropane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
179601-23	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	4-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-16-9/13/07

Lab Name: \_\_\_\_\_  
 SDG No.: JPL67  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021786  
 Lab Sample ID: JPL67-002  
 Lab File ID: B0921011.D  
 Date Collected: 09/13/2007  
 Date/Time Analyzed: 09/21/2007 10:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-10

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL67

Run Sequence: R021786

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL67-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: B0921017.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 09/14/2007 *9/24/07*

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/21/2007

GC Column: ZB-624 20m ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs Found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-16-9/13/07

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL67  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: ZB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R021786  
 Lab Sample ID: JPL67-002  
 Lab File ID: B0921011.D  
 Date Collected: 09/14/2007 *9/24/07 cm*  
 Date Analyzed: 09/21/2007  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
 (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Comments:



**FORMS SUMMARY**

**JPL67**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-10

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL67

Matrix (soil/water): Water

Lab Sample ID: JPL67-001

Level (low/med): LOW

Date Received: 09/14/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	19.5			M	R021889

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**FORMS SUMMARY**

**JPL67**

**Miscellaneous Inorganics**

Laucks Testing Laboratories, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL67  
Sample Number: MW-10 Date/Time Collected: 09/13/2007 08:55  
Lab Sample ID: JPL67-001 Date/Time Received: 09/14/2007 08:15  
Method: E314.0 Unit: ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	09/20/2007	09/21/2007	R021679

CAS CSR #P0700763

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Hexavalent Chromium Raw Data..... 30-48

August 27, 2007

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

**RE: JPL Groundwater Monitoring 3Q07/Project #G486090**

Dear David:

Enclosed are the results of the samples submitted to our laboratory on August 21-23, 2007. For your reference, these analyses have been assigned our service request number P0700763.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 48 pages.

Columbia Analytical Services is certified for environmental analyses by NELAP (certificate number: 02115CA) and Arizona Department of Health Services (License number: AZ0694).

If you have any questions, please call me at (805) 577-2086.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Chemist

SA

# Columbia Analytical Services, Inc.

## Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl- <i>tert</i> -Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	<i>Standard Methods for the Examination of Water and Wastewater</i> , 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	<i>Test Methods for Evaluating Solid Waste, Physical/Chemical Methods</i> , SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

## Qualifiers

U	Undetected at or above MDL/MRL (PQL).
J	Estimated concentration. Analyte detected above MDL, but below MRL (PQL).
B	Hit above MRL (PQL) also found in Method Blank.
E	Analyte concentration above high point of ICAL.
N	Presumptive evidence of compound.
D	Result from dilution.
X	See case narrative.

**COLUMBIA ANALYTICAL SERVICES, INC.**

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 3Q07/G486090  
**Sample Matrix:** Water  
**Service Request No.:** P07000763  
**Date Received:** 8/21-23/07

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

**Sample Receipt**

The samples were received for analysis at Columbia Analytical Services on 7/21-23/07. All discrepancies were noted upon initial sample inspection and recorded on the Cooler Receipt and Client Notification Form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at 4°C upon receipt at the laboratory.

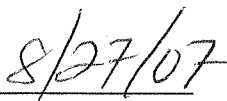
**Hexavalent Chromium by EPA Method 7196A**

No anomalies were encountered during this analysis.

Approved by



Date





Client: Battelle  
Project: JPL Groundwater Monitoring 3Q07/G486090

Service Request: P0700763

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0700763-001	MW-21-5	08/21/07	11:23
P0700763-002	MW-21-4	08/21/07	12:00
P0700763-003	MW-21-3	08/21/07	12:30
P0700763-004	MW-21-2	08/21/07	13:04
P0700763-005	MW-21-1	08/21/07	13:36
P0700763-006	EB-1-8/21/07	08/21/07	13:23
P0700763-007	MW-14-3	08/22/07	08:41
P0700763-008	MW-14-2	08/22/07	09:08
P0700763-009	MW-14-1	08/22/07	09:40
P0700763-010	EB-2-8/22/07	08/22/07	09:23
P0700763-011	MW-17-4	08/23/07	07:56
P0700763-012	MW-17-3	08/23/07	08:29
P0700763-013	MW-17-2	08/23/07	09:02
P0700763-014	EB-3-08/23/07	08/23/07	08:48
P0700763-015	MW-18-4	08/23/07	10:36
P0700763-016	MW-18-3	08/23/07	11:06
P0700763-017	MW-18-2	08/23/07	11:40









**DIVIDER SHEET**

**ANALYTICAL DATA**

**FOR**

**Hexavalent Chromium**

---

**ANALYSIS**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client :** Battelle  
**Project Name :** JPL Groundwater Monitoring 3Q07  
**Project Number :** G486090  
**Sample Matrix :** WATER

**Service Request :** P0700763  
**Date Collected :** 08/21-23/07  
**Date Received :** 08/21-24/07

Chromium, Hexavalent

**Prep Method :** None  
**Analysis Method :** 7196A  
**Test Notes :**

**Units :** mg/L (ppm)  
**Basis :** NA

Sample Name	Lab Code	PQL	MDL	Dilution Factor	Date Extracted	Date/Time Analyzed	Result	Result Notes
MW-21-5	P0700763-001	0.01	0.005	1	NA	08/21/07 16:50	0.005	J
MW-21-4	P0700763-002	0.01	0.005	1	NA	08/21/07 16:50	ND	
MW-21-3	P0700763-003	0.01	0.005	1	NA	08/21/07 16:50	ND	
MW-21-2	P0700763-004	0.01	0.005	1	NA	08/21/07 16:50	ND	
MW-21-1	P0700763-005	0.01	0.005	1	NA	08/21/07 16:50	ND	
EB-1-8/21/07	P0700763-006	0.01	0.005	1	NA	08/21/07 16:50	ND	
MW-14-3	P0700763-007	0.01	0.005	1	NA	08/22/07 13:55	ND	
MW-14-2	P0700763-008	0.01	0.005	1	NA	08/22/07 13:55	ND	
MW-14-1	P0700763-009	0.01	0.005	1	NA	08/22/07 13:55	ND	
EB-2-8/22/07	P0700763-010	0.01	0.005	1	NA	08/22/07 13:55	ND	
MW-17-4	P0700763-011	0.01	0.005	1	NA	08/23/07 15:10	ND	
MW-17-3	P0700763-012	0.01	0.005	1	NA	08/23/07 15:10	ND	
MW-17-2	P0700763-013	0.01	0.005	1	NA	08/23/07 15:10	ND	
EB-3-08/23/07	P0700763-014	0.01	0.005	1	NA	08/23/07 15:10	ND	
MW-18-4	P0700763-015	0.01	0.005	1	NA	08/24/07 09:30	ND	
MW-18-3	P0700763-016	0.01	0.005	1	NA	08/23/07 15:10	ND	
MW-18-2	P0700763-017	0.01	0.005	1	NA	08/23/07 15:10	ND	
Method Blank	P0700763-MB	0.01	0.005	1	NA	08/21/07 16:50	ND	
Method Blank	P0700763-MB	0.01	0.005	1	NA	08/22/07 13:55	ND	
Method Blank	P0700763-MB	0.01	0.005	1	NA	08/23/07 15:10	ND	
Method Blank	P0700763-MB	0.01	0.005	1	NA	08/24/07 09:30	ND	

J Estimated concentration. The result is less than the PQL but greater than the MDL.

Approved By 

Date : 8/27/07

CAS CSR #P0700775

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Hexavalent Chromium Raw Data..... 40-62



September 14, 2007

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

**RE: JPL Groundwater Monitoring 3Q07/Project #G486090**

Dear David:

Enclosed are the results of the samples submitted to our laboratory on August 27-31, 2007. For your reference, these analyses have been assigned our service request number P0700775.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 62 pages.

Columbia Analytical Services is certified for environmental analyses by NELAP (certificate number: 02115CA) and Arizona Department of Health Services (License number: AZ0694).

If you have any questions, please call me at (805) 577-2086.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Chemist

SA

# Columbia Analytical Services, Inc.

## Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
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CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl- <i>tert</i> -Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	<i>Standard Methods for the Examination of Water and Wastewater</i> , 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	<i>Test Methods for Evaluating Solid Waste, Physical/Chemical Methods</i> , SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

## Qualifiers

U	Undetected at or above MDL/MRL (PQL).
J	Estimated concentration. Analyte detected above MDL, but below MRL (PQL).
B	Hit above MRL (PQL) also found in Method Blank.
E	Analyte concentration above high point of ICAL.
N	Presumptive evidence of compound.
D	Result from dilution.
X	See case narrative.

COLUMBIA ANALYTICAL SERVICES, INC.

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 3Q07/G486090  
**Sample Matrix:** Water  
**Service Request No.:** P07000775  
**Date Received:** 8/27-31/07

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

**Sample Receipt**

The samples were received for analysis at Columbia Analytical Services on 8/27-31/07. All discrepancies were noted upon initial sample inspection and recorded on the Cooler Receipt and Client Notification Form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at 4°C upon receipt at the laboratory.

**Hexavalent Chromium by EPA Method 7196A**

The Matrix Spikes for MW-20-5 were outside of the acceptance limits for the 8/27/07 run. A 2x dilution was performed to confirm that the initial result was not significantly affected by the reduced recovery. The data has been flagged accordingly.

Approved by



Date

9/14/07

Client: Battelle  
Project: JPL Groundwater Monitoring 3Q07/G486090

Service Request: P0700775

### SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0700775-001	MW-20-5	08/27/07	08:16
P0700775-002	MW-20-4	08/27/07	08:49
P0700775-003	MW-20-3	08/27/07	09:21
P0700775-004	MW-20-2	08/27/07	09:50
P0700775-005	MW-20-1	08/27/07	10:20
P0700775-006	EB-5-8/27/07	08/27/07	10:07
P0700775-007	MW-4-3	08/28/07	07:50
P0700775-008	MW-4-2	08/28/07	08:15
P0700775-009	MW-4-1	08/28/07	08:49
P0700775-010	DUPE-1-3Q07	08/28/07	00:00
P0700775-011	EB-6-8/28/07	08/28/07	08:32
P0700775-012	MW-3-4	08/28/07	10:11
P0700775-013	MW-3-3	08/28/07	10:41
P0700775-014	MW-3-2	08/28/07	11:12
P0700775-015	MW-23-4	08/29/07	07:32
P0700775-016	MW-23-3	08/29/07	07:54
P0700775-017	MW-23-2	08/29/07	08:20
P0700775-018	MW-23-1	08/29/07	09:06
P0700775-019	DUPE-2-3Q07	08/29/07	00:00
P0700775-020	EB-7-8/29/07	08/29/07	08:54
P0700775-021	MW-22-3	08/30/07	08:17
P0700775-022	MW-22-2	08/30/07	08:43
P0700775-023	MW-22-1	08/30/07	09:10
P0700775-024	EB-8-8/30/07	08/30/07	08:58
P0700775-025	MW-11-3	08/30/07	10:38
P0700775-026	MW-11-2	08/30/07	11:03
P0700775-027	MW-11-1	08/30/07	11:36
P0700775-028	MW-12-3	08/31/07	08:17
P0700775-029	MW-12-2	08/31/07	08:47
P0700775-030	MW-12-1	08/31/07	09:12
P0700775-031	EB-9-8/31/07	08/31/07	08:58





2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

# Water & Soil - Chain of Custody Record & Analytical Service Request

Requested Turnaround Time in Business Days (Surcharges) please circle  
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

CAS Project No. 10700775  
 CAS Contact:

Company Name & Address (Reporting Information)		Project Name		Analysis Method and/or Analytes		Preservative Code		Preservative Key	
<b>BATELLE</b> 3990 OLD TOWN AVE., C-205 SAN DIEGO, CA 92110		SPL GW MON. 3807 Project Number 6486090		TPH Gas 8015B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/> TPH Diesel 8015B <input type="checkbox"/> (Subcontracted) TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted) TPH FC <input type="checkbox"/> 8015M (Subcontracted) Semi-Volatile Organics GC/MS <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		0 1 HCL 2 HNO3 3 H2SO4 4 NaOH 5 Zn Acetate 6 Asc Acid 7 Other		Project Requirements (MRLs, QAPP)	
Project Manager		PO # / Billing Information		Volatiles Organics GC/MS		624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>		Remarks	
DAVID CONNER Phone 619-726-7311 Fax		# 210643 ATN: GERALD TOMPKINS 505 KING AVE. COLUMBUS, OH 43201		624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/> TPH Gas 8015B <input type="checkbox"/> BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/> TPH Diesel 8015B <input type="checkbox"/> (Subcontracted) TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)		624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/> TPH Gas 8015B <input type="checkbox"/> BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/> TPH Diesel 8015B <input type="checkbox"/> (Subcontracted) TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)		0 1 HCL 2 HNO3 3 H2SO4 4 NaOH 5 Zn Acetate 6 Asc Acid 7 Other	
Email Address for Result Reporting		Sampler (Print & Sign)		Time Collected		Date Collected		Laboratory ID Number	
MARKS MENDOZA <i>Mark</i>		MARKS MENDOZA		750 W		8/18/17		7	
Client Sample ID		Matrix		Time Collected		Date Collected		Laboratory ID Number	
MW-4-3		W		750		8/18/17		7	
MW-4-2				815				8	
MW-4-1				849				9	
DUPE-1-3007				-				10	
EB-6-8/18/17				832				11	
MW-4-3		W		750		8/18/17		7	
MW-4-2				815				8	
MW-4-1				849				9	
DUPE-1-3007				-				10	
EB-6-8/18/17				832				11	
MW-4-3		W		750		8/18/17		7	
MW-4-2				815				8	
MW-4-1				849				9	
DUPE-1-3007				-				10	
EB-6-8/18/17				832				11	

Report Tier Levels - please select  
 Tier I - (Results/Default if not specified) \_\_\_  
 Tier II - (Results + QC) \_\_\_  
 Tier III - (Data Validation Package) 10% Surcharge \_\_\_  
 Tier V - (client specified) \_\_\_

MRL required Yes / No  /   
 MDL / PQL / J required Yes / No  /  /

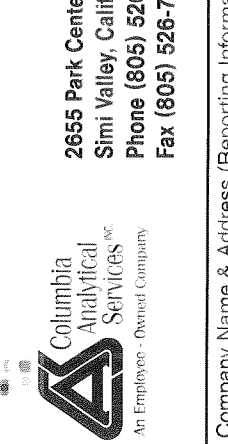
EDD required Yes / No  /   
 Type: Geotracker

Relinquished by: (Signature) [Signature] Date: 8/28/17 Time: 1300  
 Relinquished by: (Signature) [Signature] Date: 8/17/17 Time: 1045  
 Relinquished by: (Signature) [Signature] Date: 8/18/17 Time: 1345

Project Requirements (MRLs, QAPP)

Cooler / Blank / Ice / No Ice      
 Temperature 3 °C

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270



Company Name & Address (Reporting Information)		Project Name		Requested Turnaround Time in Business Days (Surcharges) please circle		CAS Project No.	
BATTLE 3990 OLD TOWN AVE. 1 C-205 SAN DIEGO, CA. 92110		JPL GW MON. 3807		1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard		10700775	
Project Manager		Project Number		Analysis Method and/or Analytes		CAS Contact:	
DAVID COLLIER		6486090		Preservative Code		Preservative Key	
Phone: 619-726-7311		PO # / Billing Information		Volatile Organics GC/MS		0 None	
Fax:		210643		624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>		1 HCL	
Email Address for Result Reporting		ATTN: GERRARD TOMPKINS		TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)		2 HNO3	
MARCO MENDOZA		505 KING AVE.		TPH FC <input type="checkbox"/> 8015M (Subcontracted)		3 H2SO4	
Sampler (Print & Sign)		COLUMBUS, OH 43201		Semi-Volatile Organics GC/MS		4 NaOH	
Laboratory ID Number		Date Collected		625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		5 Zn Acetate	
MW-3-4		8/28/07		TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)		6 Asc Acid	
MW-3-3		1041		BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/>		7 Other	
MW-3-2		1112		TPH Gas 8015B <input type="checkbox"/>		Remarks	
				TPH Gas 8015B <input type="checkbox"/>		MS/MSD / LEVEL II QC	
				TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)			
				TPH FC <input type="checkbox"/> 8015M (Subcontracted)			
				Semi-Volatile Organics GC/MS			
				625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)			
				Volatile Organics GC/MS			
				624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>			
				TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)			
				TPH FC <input type="checkbox"/> 8015M (Subcontracted)			
				Semi-Volatile Organics GC/MS			
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				Volatile Organics GC/MS			
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				Volatile Organics GC/MS			
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				TPH FC <input type="checkbox"/> 8015M (Subcontracted)			
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				TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)			
				TPH FC <input type="checkbox"/> 8015M (Subcontracted)			
				Semi-Volatile Organics GC/MS			
				625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)			
				Volatile Organics GC/MS			



2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**Requested Turnaround Time in Business Days (Surcharges) please circle**  
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

CAS Project No. PO700775  
 CAS Contact:

Company Name & Address (Reporting Information)		Project Name		Analysis Method and/or Analytes		Preservative Key			
BATTLE 3990 OLD TOWN AVE., C-205 SAN DIEGO, CA 92110		SPL GW MON. 3007 Project Number G486090		Volatile Organics GC/MS 624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/> TPH Gas 8015B <input type="checkbox"/> BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/> TPH Diesel 8015B <input type="checkbox"/> (Subcontracted) TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted) TPH FC <input type="checkbox"/> 8015M (Subcontracted) Semi-Volatile Organics GC/MS 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		0 None 1 HCL 2 HNO3 3 H2SO4 4 NaOH 5 Zn Acetate 6 Asc Acid 7 Other			
Project Manager		Project Number		Preservative Code		Remarks			
DAVID CONNELL Phone 619-726-7311 Email Address for Result Reporting		PO.# / Billing Information #210643 ATTN: GERALD TOMPKINS 505 KING AVE. COLUMBUS, OH 43201		0 (718) G V		Remarks			
Client Sample ID		Date Collected		Time Collected		Matrix		Number of Containers	
MW-23-4 MW-23-3 MW-23-2 MW-23-1 DUPE-2-3007 EB-7-8/29/07 FB-7-8/29/07		8/28/07             		0732 0754 820 906 — 854 —		W             		1             	
						X		DUPLICATE	
						X		EDUP. BLANK	
						X		(circled symbol)	

**Report Tier Levels - please select**  
 Tier I - (Results/Default if not specified) \_\_\_\_\_  
 Tier II - (Results + QC) \_\_\_\_\_  
 Tier III - (Data Validation Package) 10% Surcharge \_\_\_\_\_  
 Tier V - (client specified) \_\_\_\_\_

MRL required Yes / No \_\_\_\_\_  
 MPL / PQL / J required Yes / No \_\_\_\_\_  
 EDD required Yes / No \_\_\_\_\_  
 Type: \_\_\_\_\_

Requested by: (Signature) \_\_\_\_\_ Date: 8/29/07 Time: 11:45  
 Received by: (Signature) \_\_\_\_\_ Date: 8/29/07 Time: 13:00  
 Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Project Requirements (MRLs, QAPP) \_\_\_\_\_  
 Cooler / Blank / Ice / No Ice \_\_\_\_\_  
 Temperature \_\_\_\_\_ °C





2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

CAS Project No. B0700775  
 CAS Contact:

Requested Turnaround Time in Business Days (Surcharges) please circle  
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

Company Name & Address (Reporting Information)		Project Name		Analysis Method and/or Analytes		Preservative Code		Preservative Key			
BATTLE 3990 OLD TOWN AVE., C-205 SAN DIEGO, CA 92110		SPL Ground. 3807 Project Number G486090		TPH Gas 8015B <input type="checkbox"/> BTEX 8021B <input type="checkbox"/> MTEB 8021B <input type="checkbox"/> TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted) TPH FC <input type="checkbox"/> 8015M (Subcontracted) Semi-Volatile Organics GC/MS 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		0 (9612)		0 None 1 HCL 2 HNO3 3 H2SO4 4 NaOH 5 Zn Acetate 6 Asc Acid 7 Other			
Project Manager DAVID CONNER Phone 619-726-7311 Fax		P.O. # / Billing Information #210643 ATTN: GERALD TOMPKINS 505 KING AVE. COLUMBUS, OH 43201		Volatile Organics GC/MS 624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>		(C-VI) (7196)					
Email Address for Result Reporting				Sampler (Print & Sign)				Remarks			
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers						
MW-22-3	21	8/30/07	817	W	1	LEVEL IV QC					
MW-22-2	22	8/30/07	843	W	1						
MW-22-1	23	8/30/07	910	W	1						
EB-8-8/30/07	24	8/30/07	858	W	1	EQVIP-BLANK					

**Report Tier Levels - please select**

Tier I - (Results/Default if not specified) \_\_\_\_\_  
 Tier II - (Results + QC) \_\_\_\_\_  
 Tier III - (Data Validation Package) 10% Surcharge \_\_\_\_\_  
 Tier V - (client specified) \_\_\_\_\_

MRL required Yes (No) \_\_\_\_\_  
 MDL / PQL / J required Yes/No \_\_\_\_\_  
 EDD required Yes/No \_\_\_\_\_  
 Type: Geotracker

Relinquished by (Signature) \_\_\_\_\_ Date: 8/30/07 Time: 12:55  
 Relinquished by (Signature) \_\_\_\_\_ Date: 8/30/07 Time: 13:55  
 Relinquished by (Signature) \_\_\_\_\_ Date: 8/30/07 Time: 13:55

Project Requirements (MRLs, QAPP) \_\_\_\_\_  
 Cooler/Blank / (CS) / No. Ice \_\_\_\_\_  
 Temperature 3 °C





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Requested Turnaround Time in Business Days (Surcharges) please circle  
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

CAS Project No. PO700075  
 CAS Contact:

Company Name & Address (Reporting Information)			Project Name		Analysis Method and/or Analytes							Preservative Key	
BATELLE 3990 OLD TOWN AVE., C-205 SAN DIEGO, CA 92110			JPL GW MON. 3807 Project Number G 486090		TPH Gas 8015B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/> 624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>		TPH Diesel 8015B <input type="checkbox"/> (Subcontracted) TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)		TPH FC <input type="checkbox"/> 8015M (Subcontracted) Semi-Volatile Organics GCMS 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		0 None 1 HCL 2 HNO3 3 H2SO4 4 NaOH 5 Zn Acetate 6 Asc Acid 7 Other		Remarks
Project Manager			PO.# / Billing Information		Preservative Code								
DAVID CONNELL Phone 619-726-7311 Fax			210683 ATTN: GERALD TOMPKINS 505 KING AVE. COLUMBUS, OH 43201		0 (719)							Remarks	
Email Address for Result Reporting			Sampler (Print & Sign)		Analysis Method and/or Analytes								
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers								
MW-12-3	28	8/31/07	817	W	1	<input checked="" type="checkbox"/> X (719)							TIME COLLECTED 817
MW-12-2	29		847		1	<input checked="" type="checkbox"/> X							
MW-12-1	30		912		1	<input checked="" type="checkbox"/> X							
EB-9-8/31/07	31		858		1	<input checked="" type="checkbox"/> X							COUP BLANK

Report Tier Levels - please select  
 Tier I - (Results/Default if not specified) \_\_\_\_\_  
 Tier II - (Results + QC) \_\_\_\_\_  
 Tier III - (Data Validation Package) 10% Surcharge \_\_\_\_\_  
 Tier V - (client specified) \_\_\_\_\_

MRL required Yes / No Yes  
 MDL / PQL / J required Yes / No No  
 EDD required Yes / No No  
 Type: GC/MS

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date: <u>8/31/07</u>	Time: <u>14:11</u>	Received by: (Signature)	Date: <u>8/31/07</u>	Time: <u>14:55</u>
Relinquished by: (Signature)	Date: <u>8/31/07</u>	Time: <u>14:55</u>	Received by: (Signature)	Date: <u>8/31/07</u>	Time: <u>14:55</u>
Relinquished by: (Signature)	Date: _____	Time: _____	Received by: (Signature)	Date: _____	Time: _____

Cooler / Blank / Ice / No Ice 3  
 Temperature \_\_\_\_\_ °C

**DIVIDER SHEET**

**ANALYTICAL DATA**

**FOR**

**Hexavalent Chromium**

---

**ANALYSIS**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client :** Battelle  
**Project Name :** JPL Groundwater Monitoring 3Q07  
**Project Number :** G486090  
**Sample Matrix :** WATER

**Service Request :** P0700775  
**Date Collected :** 08/27-31/07  
**Date Received :** 08/27-31/07

Chromium, Hexavalent

Prep Method : None  
 Analysis Method 7196A  
 Test Notes :

Units : mg/L (ppm)  
 Basis : NA

Sample Name	Lab Code	PQL	MDL	Dilution Factor	Date Extracted	Date/Time Analyzed	Result	Result Notes
MW-20-5	P0700775-001	0.01	0.005	1	NA	08/27/07 14:11	ND	
MW-20-4	P0700775-002	0.01	0.005	1	NA	08/27/07 14:11	ND	
MW-20-3	P0700775-003	0.01	0.005	1	NA	08/27/07 14:11	ND	
MW-20-2	P0700775-004	0.01	0.005	1	NA	08/27/07 14:11	ND	
MW-20-1	P0700775-005	0.01	0.005	1	NA	08/27/07 14:11	ND	
EB-5-8/27/07	P0700775-006	0.01	0.005	1	NA	08/27/07 14:11	ND	
MW-4-3	P0700775-007	0.01	0.005	1	NA	08/28/07 15:20	ND	
MW-4-2	P0700775-008	0.01	0.005	1	NA	08/28/07 15:20	ND	
MW-4-1	P0700775-009	0.01	0.005	1	NA	08/28/07 15:20	ND	
DUPE-1-3Q07	P0700775-010	0.01	0.005	1	NA	08/28/07 15:20	ND	
EB-6-8/28/07	P0700775-011	0.01	0.005	1	NA	08/28/07 15:20	ND	
MW-3-4	P0700775-012	0.01	0.005	1	NA	08/28/07 15:20	ND	
MW-3-3	P0700775-013	0.01	0.005	1	NA	08/28/07 15:20	ND	
MW-3-2	P0700775-014	0.01	0.005	1	NA	08/28/07 15:20	ND	
MW-23-4	P0700775-015	0.01	0.005	1	NA	08/29/07 15:00	ND	
MW-23-3	P0700775-016	0.01	0.005	1	NA	08/29/07 15:00	ND	
MW-23-2	P0700775-017	0.01	0.005	1	NA	08/29/07 15:00	ND	
MW-23-1	P0700775-018	0.01	0.005	1	NA	08/29/07 15:00	ND	
DUPE-2-3Q07	P0700775-019	0.01	0.005	1	NA	08/29/07 15:00	ND	
EB-7-8/29/07	P0700775-020	0.01	0.005	1	NA	08/29/07 15:00	ND	
MW-22-3	P0700775-021	0.01	0.005	1	NA	08/30/07 15:35	ND	
MW-22-2	P0700775-022	0.01	0.005	1	NA	08/30/07 15:35	ND	
MW-22-1	P0700775-023	0.01	0.005	1	NA	08/30/07 15:35	ND	
EB-8-8/30/07	P0700775-024	0.01	0.005	1	NA	08/30/07 15:35	ND	
MW-11-3	P0700775-025	0.01	0.005	1	NA	08/30/07 15:35	ND	
MW-11-2	P0700775-026	0.01	0.005	1	NA	08/30/07 15:35	ND	
MW-11-1	P0700775-027	0.01	0.005	1	NA	08/30/07 15:35	ND	
MW-12-3	P0700775-028	0.01	0.005	1	NA	08/31/07 15:50	ND	
MW-12-2	P0700775-029	0.01	0.005	1	NA	08/31/07 15:50	ND	

Approved By   
 22

Date : 9/14/07

CAS CSR #P0700798

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September 18, 2007

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

**RE: JPL Groundwater Monitoring 3Q07/Project #G486090**

Dear David:

Enclosed are the results of the samples submitted to our laboratory on September 4-7, 2007. For your reference, these analyses have been assigned our service request number P0700798.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 48 pages.

Columbia Analytical Services is certified for environmental analyses by NELAP (certificate number: 02115CA) and Arizona Department of Health Services (License number: AZ0694).

If you have any questions, please call me at (805) 577-2086.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Chemist

SA

# Columbia Analytical Services, Inc.

## Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl- <i>tert</i> -Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	<i>Standard Methods for the Examination of Water and Wastewater</i> , 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	<i>Test Methods for Evaluating Solid Waste, Physical/Chemical Methods</i> , SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

## Qualifiers

U	Undetected at or above MDL/MRL (PQL).
J	Estimated concentration. Analyte detected above MDL, but below MRL (PQL).
B	Hit above MRL (PQL) also found in Method Blank.
E	Analyte concentration above high point of ICAL.
N	Presumptive evidence of compound.
D	Result from dilution.
X	See case narrative.



COLUMBIA ANALYTICAL SERVICES, INC.

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 3Q07/G486090  
**Sample Matrix:** Water  
**Service Request No.:** P07000798  
**Date Received:** 9/4-7/07

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank results have been reported with each analytical test.


Sample Receipt

The samples were received for analysis at Columbia Analytical Services on 9/4-7/07. All discrepancies were noted upon initial sample inspection and recorded on the Cooler Receipt and Client Notification Form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at 4°C upon receipt at the laboratory.

Hexavalent Chromium by EPA Method 7196A

No anomalies were encountered during this analysis.

Approved by

 3

Date

9/18/07

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 3Q07/G486090

**Service Request:** P0700798

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0700798-001	MW-24-4	09/04/07	07:58
P0700798-002	MW-24-3	09/04/07	08:24
P0700798-003	MW-24-2	09/04/07	09:01
P0700798-004	MW-24-1	09/04/07	09:51
P0700798-005	EB-10-9/4/07	09/04/07	09:38
P0700798-006	MW-26-2	09/05/07	08:13
P0700798-007	MW-26-1	09/05/07	08:40
P0700798-008	EB-11-9/5/07	09/05/07	08:32
P0700798-009	MW-25-5	09/06/07	07:51
P0700798-010	MW-25-4	09/06/07	08:25
P0700798-011	MW-25-3	09/06/07	08:57
P0700798-012	MW-25-2	09/06/07	09:26
P0700798-013	MW-25-1	09/06/07	09:59
P0700798-014	EB-12-9/6/07	09/06/07	09:44
P0700798-015	MW-5	09/07/07	08:36
P0700798-016	MW-15	09/07/07	10:05
P0700798-017	DUPE-3-3Q07	09/07/07	00:00

# Water & Soil - Chain of Custody Record & Analytical Service Request



2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**Requested Turnaround Time in Business Days (Surcharges) please circle**  
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

CAS Project No. P0700798  
 CAS Contact:

<b>Company Name &amp; Address (Reporting Information)</b> BATTLE 3990 OLD TOWN AVE, C-205 SAN DIEGO, CA 92110			<b>Project Name</b> JPL GW MON. 3807			<b>Analysis Method and/or Analytes</b> Preservative Code		
<b>Project Manager</b> DAVID COWLER Phone: 619-726-7311 Fax:			<b>Project Number</b> 6496090			0		
<b>PO # / Billing Information</b> # 210643 ATTN: GERALD THOMPINS 505 KING AVE. COLUMBUS, OH 43201			<b>Sampler (Print &amp; Sign)</b>			Volatile Organics GC/MS 624 <input type="checkbox"/> 82608 <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>		
<b>Email Address for Result Reporting</b>			<b>Date Collected</b>			TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted) BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/>		
<b>Laboratory ID Number</b>			<b>Time Collected</b>			TPH FC <input type="checkbox"/> 8015M (Subcontracted) Semi-Volatile Organics GC/MS 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		
<b>Client Sample ID</b>			<b>Matrix</b>			TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)		
MW-24-4			W			TPH Gas 8015B <input type="checkbox"/>		
MW-24-3						TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)		
MW-24-2						BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/>		
MW-24-1						TPH FC <input type="checkbox"/> 8015M (Subcontracted)		
EB-10-9/4/07						Semi-Volatile Organics GC/MS 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		
(71%)			X			TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)		
Ms/Asd			X			BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/>		
LEVEL IV GC			X			TPH FC <input type="checkbox"/> 8015M (Subcontracted)		
EQUIP. BLANK			X			Semi-Volatile Organics GC/MS 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		
Remarks			Number of Containers			TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)		
0 None			1			BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/>		
1 HCL			1			TPH Gas 8015B <input type="checkbox"/>		
2 HNO3			2			TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)		
3 H2SO4			1			TPH FC <input type="checkbox"/> 8015M (Subcontracted)		
4 NaOH			1			Semi-Volatile Organics GC/MS 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		
5 Zn Acetate			1			TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)		
6 Asc Acid			1			BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/>		
7 Other			1			TPH Gas 8015B <input type="checkbox"/>		

**Report Tier Levels - please select**  
 Tier I - (Results/Default if not specified) \_\_\_\_\_  
 Tier II - (Results + QC) \_\_\_\_\_  
 Tier III - (Data Validation Package) 10% Surcharge \_\_\_\_\_  
 Tier V - (client specified) \_\_\_\_\_

MRL required Yes / No \_\_\_\_\_  
 MDL / PQL / J required Yes / No \_\_\_\_\_  
 EDD required Yes / No \_\_\_\_\_  
 Type: grabber

Relinquished by (Signature)	Date: <u>9/4/07</u>	Time: <u>12:07</u>	Received by (Signature)	Date: <u>9/4/07</u>	Time: <u>12:07</u>
Relinquished by (Signature)	Date: <u>9/4/07</u>	Time: <u>13:00</u>	Received by (Signature)	Date: <u>9/4/07</u>	Time: <u>13:00</u>
Relinquished by (Signature)	Date: _____	Time: _____	Received by (Signature)	Date: _____	Time: _____

Project Requirements (MRLs, GAPP)  
 Cooler: Blank / Ice / No Ice 3  
 Temperature: \_\_\_\_\_ °C





2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**Requested Turnaround Time in Business Days (Surcharges) please circle**  
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

CAS Project No. 20700798  
 CAS Contact:

Company Name & Address (Reporting Information) <b>BATTELLE</b> 3990 OLD TOWN AVE., C-205 SAN DIEGO, CA 92110		Project Name <u>SPL CW MON. 3007</u>	
Project Manager <b>DAVID CONNER</b> Phone <u>619-726-7311</u> Fax		Project Number <u>6486090</u>	
PO # / Billing Information <u>210643</u> ATTN: GERALD TOMPKINS 505 KING AVE. COLUMBUS, OH 43201		Analysis Method and/or Analytes Preservative Code	
Email Address for Result Reporting Sampler (Print & Sign)			

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Analysis Method and/or Analytes							Remarks
						Volatile Organics GC/MS 624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>	TPH Gas 8015B <input type="checkbox"/>	BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/>	TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)	TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)	TPH FC <input type="checkbox"/> 8015M (Subcontracted)	Semi-Volatile Organics GC/MS 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)	
MW-25-5	19	9/16/07	751	W	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	
MW-25-4	210	825			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
MW-25-3	311	857			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
MW-25-2	412	926			2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
MW-25-1	513	959			2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	MS/MSD
EB-12-916107	614	944			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5	EQUIP. ISLAND
												6	
												7	

**Report Tier Levels - please select**  
 Tier I - (Results/Default, if not specified) \_\_\_\_\_  
 Tier II - (Results + QC) \_\_\_\_\_  
 Tier III - (Data Validation Package) 10% Surcharge \_\_\_\_\_  
 Tier V - (Client specified) \_\_\_\_\_

MFL required Yes/No Yes EDD required Yes/No Yes  
 MDL / POC required Yes/No Yes Type: Spot/Filter

Relinquished by: (Signature) [Signature] Date: 9/16/07 Time: 11:30  
 Relinquished by: (Signature) [Signature] Date: 9/16/07 Time: 12:15  
 Relinquished by: (Signature) [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_

Project Requirements (MRLs, GAPP)  
 Cooler/Blank/ice No/ice 3  
 Temperature \_\_\_\_\_ °C



2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

Company Name & Address (Reporting Information)  
**BATTELLE**  
 3990 OLD TOWN AVE., C-205  
 SAN DIEGO, CA 92110

Project Manager  
**DAVID COLLIER**

Phone: 619-726-7311  
 Fax:

Project Name  
**SPL GW MON. 3807**

Project Number  
**G486090**

P.O. # / Billing Information  
**# 210643**  
**ATTN: GERARD TOMPKINS**  
**505 KING AVE**  
**COLUMBUS, OH 43201**

Requested Turnaround Time in Business Days (Surcharges) please circle  
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

Analysis Method and/or Analytes

Preservative Code

Preservative Key

0 None  
 1 HCL  
 2 HNO3  
 3 H2SO4  
 4 NaOH  
 5 Zn Acetate  
 6 Asc Acid  
 7 Other

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Analysis Method and/or Analytes							Remarks	
						Volatiles Organics GC/MS 64 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>	TPH Gas 8015B BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/>	TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)	TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)	TPH FC 8015M <input type="checkbox"/> (Subcontracted)	Semi-Volatile Organics GC/MS 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)	Preservative Code		Preservative Key
MW-5	15	9/7/07	836	W	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			MISMSD
MW-15	16	1005			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
DUPE-3-3007	17				1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			DUPLICATE

Report Tier Levels - please select  
 Tier I - (Results/Default if not specified) \_\_\_\_\_  
 Tier II - (Results + QC) \_\_\_\_\_  
 Tier III - (Data Validation Package) 10% Surcharge \_\_\_\_\_  
 Tier V - (client specified) \_\_\_\_\_

MRL required Yes/No  No  
 MDL / PQL / J required Yes/No  No

EDD required Yes/No  No  
 Type: Geo-Tracker

Relinquished by (Signature) \_\_\_\_\_ Date: 9/7/07 Time: 11:01  
 Relinquished by (Signature) \_\_\_\_\_ Date: 9/7/07 Time: 11:50  
 Relinquished by (Signature) \_\_\_\_\_ Date: 9/7/07 Time: 11:50

Project Requirements (MRLs, QAPP)  
 Cooler / Blank / Ice / No Ice  
 Temperature 3 °C

CAS Project No.  
**P0700798**  
 CAS Contact:

**DIVIDER SHEET**

**ANALYTICAL DATA**

**FOR**

**Hexavalent Chromium**

---

**ANALYSIS**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client :** Battelle  
**Project Name :** JPL Groundwater Monitoring 3Q07  
**Project Number :** G486090  
**Sample Matrix :** WATER

**Service Request :** P0700798  
**Date Collected :** 09/04-07/07  
**Date Received :** 09/04-07/07

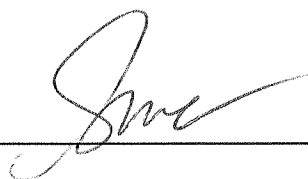
Chromium, Hexavalent

**Prep Method :** None  
**Analysis Method :** 7196A  
**Test Notes :**

**Units :** mg/L (ppm)  
**Basis :** NA

Sample Name	Lab Code	PQL	MDL	Dilution Factor	Date Extracted	Date/Time Analyzed	Result	Result Notes
MW-24-4	P0700798-001	0.01	0.005	1	NA	09/04/07 14:10 ✓	ND ✓	
MW-24-3	P0700798-002	0.01	0.005	1	NA	09/04/07 14:10 ✓	ND ✓	
MW-24-2	P0700798-003	0.01	0.005	1	NA	09/04/07 14:10 ✓	ND ✓	
MW-24-1	P0700798-004	0.01	0.005	1	NA	09/04/07 14:10 ✓	ND ✓	
EB-10-9/4/07	P0700798-005	0.01	0.005	1	NA	09/04/07 14:10 ✓	ND ✓	
MW-26-2	P0700798-006	0.01	0.005	1	NA	09/05/07 14:05 ✓	ND ✓	
MW-26-1	P0700798-007	0.01	0.005	1	NA	09/05/07 14:05 ✓	ND ✓	
EB-11-9/5/07	P0700798-008	0.01	0.005	1	NA	09/05/07 14:05 ✓	ND ✓	
MW-25-5	P0700798-009	0.01	0.005	1	NA	09/06/07 14:01 ✓	ND ✓	
MW-25-4	P0700798-010	0.01	0.005	1	NA	09/06/07 14:01 ✓	ND ✓	
MW-25-3	P0700798-011	0.01	0.005	1	NA	09/06/07 14:01 ✓	ND ✓	
MW-25-2	P0700798-012	0.01	0.005	1	NA	09/06/07 14:01 ✓	ND ✓	
MW-25-1	P0700798-013	0.01	0.005	1	NA	09/06/07 14:01 ✓	ND ✓	
EB-12-9/6/07	P0700798-014	0.01	0.005	1	NA	09/06/07 14:01 ✓	ND ✓	
MW-5	P0700798-015	0.01	0.005	1	NA	09/07/07 13:30 ✓	ND ✓	
MW-15	P0700798-016	0.01	0.005	1	NA	09/07/07 13:30 ✓	ND ✓	
DUPE-3-3Q07	P0700798-017	0.01	0.005	1	NA	09/07/07 13:30 ✓	ND ✓	
Method Blank	P0700798-MB	0.01	0.005	1	NA	09/04/07 14:10 ✓	ND ✓	
Method Blank	P0700798-MB	0.01	0.005	1	NA	09/05/07 14:05 ✓	ND ✓	
Method Blank	P0700798-MB	0.01	0.005	1	NA	09/06/07 14:01 ✓	ND ✓	
Method Blank	P0700798-MB	0.01	0.005	1	NA	09/07/07 13:30 ✓	ND ✓	

Approved By \_\_\_\_\_



**16** Date : \_\_\_\_\_

9/18/07



CAS CSR #P0700818

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September 18, 2007

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

**RE: JPL Groundwater Monitoring 3Q07/Project #G486090**

Dear David:

Enclosed are the results of the samples submitted to our laboratory on September 10-13, 2007. For your reference, these analyses have been assigned our service request number P0700818.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 47 pages.

Columbia Analytical Services is certified for environmental analyses by NELAP (certificate number: 02115CA) and Arizona Department of Health Services (License number: AZ0694).

If you have any questions, please call me at (805) 577-2086.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Chemist

SA

# Columbia Analytical Services, Inc.

## Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl- <i>tert</i> -Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	<i>Standard Methods for the Examination of Water and Wastewater</i> , 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	<i>Test Methods for Evaluating Solid Waste, Physical/Chemical Methods</i> , SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

## Qualifiers

U	Undetected at or above MDL/MRL (PQL).
J	Estimated concentration. Analyte detected above MDL, but below MRL (PQL).
B	Hit above MRL (PQL) also found in Method Blank.
E	Analyte concentration above high point of ICAL.
N	Presumptive evidence of compound.
D	Result from dilution.
X	See case narrative.

**COLUMBIA ANALYTICAL SERVICES, INC.**

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 3Q07/G486090  
**Sample Matrix:** Water

**Service Request No.:** P07000818  
**Date Received:** 9/10-13/07

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

**Sample Receipt**

The samples were received for analysis at Columbia Analytical Services on 9/10-13/07. All discrepancies were noted upon initial sample inspection and recorded on the Cooler Receipt and Client Notification Form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at 4°C upon receipt at the laboratory.

**Hexavalent Chromium by EPA Method 7196A**

No anomalies were encountered during this analysis.

Approved by

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Date

9/18/07

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 3Q07/G486090

**Service Request:** P0700818

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0700818-001	MW-6	09/10/07	10:28
P0700818-002	DUPE-4-3Q07	09/10/07	00:00
P0700818-003	MW-7	09/11/07	09:23
P0700818-004	MW-16	09/11/07	11:47
P0700818-005	DUPE-5-3Q07	09/11/07	00:00
P0700818-006	MW-13	09/12/07	08:46
P0700818-007	MW-8	09/12/07	10:38
P0700818-008	DUPE-6-3Q07	09/12/07	00:00
P0700818-009	DUPE-7-3Q07	09/12/07	00:00
P0700818-010	MW-10	09/13/07	08:55





Columbia Analytical Services, Inc.  
An Employee-Owned Company

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# Water & Soil - Chain of Custody Record & Analytical Service Request

CAS Project No. P0700818  
CAS Contact:

Requested Turnaround Time in Business Days (Surcharges) please circle  
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

Company Name & Address (Reporting Information) <b>BATELLE</b> 3990 OLD TOWN AVE., C-205 SAN DIEGO, CA 92110		Project Name <u>SPL GW MON. 3807</u>	
Project Manager <b>DAVID COMPTER</b>	Phone 619-726-7311	Project Number <u>G486090</u>	Analysis Method and/or Analytes
P.O. # / Billing Information <u>#210668</u> ATTN: GEDWARD THOMPINS 505 KING AVE. COLUMBUS, OH 43201		Preservative Code	
Email Address for Result Reporting		Preservative Key	
Sampler (Print & Sign)		0 None 1 HCL 2 HNO3 3 H2SO4 4 NaOH 5 Zn Acetate 6 Asc Acid 7 Other	

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Analysis Method and/or Analytes							Remarks						
						624 <input type="checkbox"/> 82608 <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>	TPH Gas 8015B <input type="checkbox"/>	BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/>	TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)	TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)	TPH FC 8015M <input type="checkbox"/> (Subcontracted)	Sem-Volatile Organics GC/MS <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		Preservative Code					
MW-7	3	9/11/07	923	W	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DUPLICATE
MW-16	4	1147				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DUPE-5-3007	5					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Report Tier Levels - please select Tier I - (Results/Default if not specified) _____ Tier II - (Results + QC) _____		Tier III - (Data Validation Package) 10% Surcharge _____ Tier V - (client specified) _____		MRL required Yes/No <input checked="" type="checkbox"/> / <input type="checkbox"/>	EDD required Yes/No <input checked="" type="checkbox"/> / <input type="checkbox"/>	Project Requirements (MRLs, QAPP)	
Relinquished by: (Signature) <u>[Signature]</u>	Date: <u>9/11/07</u>	Time: <u>1317</u>	Received by: (Signature) <u>[Signature]</u>	Date: <u>9/11/07</u>	Time: <u>1317</u>	Cooler/ Blank/ Ice/ No Ice	
Relinquished by: (Signature) <u>[Signature]</u>	Date: <u>9/11/07</u>	Time: <u>1408</u>	Received by: (Signature) <u>[Signature]</u>	Date: <u>9/11/07</u>	Time: <u>1408</u>	Temperature <u>3</u> °C	

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<b>Company Name &amp; Address (Reporting Information)</b> BATTLE 3990 OLD TOWN AVE., C-205 SAN DIEGO, CA 92110		<b>Project Name</b> SRL GW MON. 3907		<b>Requested Turnaround Time in Business Days (Surcharges) please circle</b> 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard		CAS Project No. P0700818	
<b>Project Manager</b> DAVID CONNER		<b>Project Number</b> G486090		<b>Analysis Method and/or Analytes</b>		CAS Contact:	
<b>PO # / Billing Information</b> #210643 ATTN: GRAND TOMPKINS 505 KING AVE. COLUMBUS, OH 43201		<b>Sampler (Print &amp; Sign)</b>		<b>Preservative Code</b>		<b>Preservative Key</b> 0 None 1 HCL 2 HNO3 3 H2SO4 4 NaOH 5 Zn Acetate 6 Asc Acid 7 Other	
<b>Phone</b> 619-726-7311		<b>Matrix</b>		TPH Gas 8015B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/> TPH Diesel 8015B <input type="checkbox"/> (Subcontracted) TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted) TPH FC <input type="checkbox"/> 8015M (Subcontracted) Semi-Volatile Organics GC/MS <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		<b>Remarks</b>	
<b>Email Address for Result Reporting</b>		<b>Date Collected</b>		BTEX 8021B <input type="checkbox"/> TPH Gas <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>		LEVEL IV QC	
<b>Laboratory ID Number</b>		<b>Time Collected</b>		624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>		Ms/MsD	
MW-13		6 9/26/07 846		625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		DUPLICATE	
MW-8		7 1038		626 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		DUPLICATE	
DUPE-6-3007		8		627 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		DUPLICATE	
DUPE-7-3007		9		628 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		DUPLICATE	

**Report Tier Levels - please select**  
 Tier I - (Results/Default if not specified) \_\_\_\_\_  
 Tier II - (Results + QC) \_\_\_\_\_  
 Tier III - (Data Validation Package) 10% Surcharge \_\_\_\_\_  
 Tier V - (client specified) \_\_\_\_\_

**MRL required Yes / No**  
 MDL (POL / J required) Yes / No  
 EDD required (Yes / No)  
 Type: Contractor

**Relinquished by (Signature)**  
 Relinquished by (Signature)  
 Relinquished by (Signature)

**Date**  
 Date: 9/26/07 Time: 11:30  
 Date: 9/26/07 Time: 12:30  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

**Project Requirements (MRLs, QAPP)**  
 Project Requirements (MRLs, QAPP)  
 Temperature \_\_\_\_\_ °C





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Company Name & Address (Reporting Information) <b>BATTELLE</b> 3990 OLD TOWN AVE., C-205 SAN DIEGO, CA 92110		Project Name <b>JPL GW MON. 3407</b>		Project Number <b>G 486090</b>		Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard		CAS Project No. <b>20700918</b>	
Project Manager <b>DAVID COLLIER</b>		P.O. # / Billing Information <b># 210643</b> <b>ATTN: GERALD TOMPKINS</b> <b>505 KING AVE.</b> <b>COLUMBUS, OH 43201</b>		Project Address for Result Reporting Sampler (Print & Sign)		Analysis Method and/or Analytes		CAS Contact:	
Client Sample ID <b>MW-10</b>		Laboratory ID Number <b>10</b>		Date Collected <b>9/13/07</b>		Time Collected <b>8:55</b>		Matrix <b>W</b>	
Number of Containers <b>1</b>		Volatile Organics GC/MS 624 <input type="checkbox"/> 82608 <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>		TPH Gas 8015B <input type="checkbox"/>		BTEX 80218 <input type="checkbox"/> MTBE 80215 <input type="checkbox"/>		TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)	
TPH FC 8015M <input type="checkbox"/> (Subcontracted)		Sem-Volatile Organics GC/MS 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		X <b>GC/MS (7196)</b>		Preservative Code		Preservative Key	
Remarks		Preservative Key 0 None 1 HCL 2 HNO3 3 H2SO4 4 NaOH 5 Zn Acetate 6 Asc Acid 7 Other							

**Report Tier Levels - please select**

Tier I - (Results/Default if not specified) \_\_\_\_\_  
 Tier II - (Results + QC) \_\_\_\_\_  
 Tier III - (Data Validation Package) 10% Surcharge  
 Tier V - (client specified) \_\_\_\_\_

MRL required Yes No  
 MDL / PQL / J required Yes No  
 EDD required Yes No

Relinquished by: (Signature) \_\_\_\_\_ Date: 9/13/07 Time: 10:55  
 Relinquished by: (Signature) \_\_\_\_\_ Date: 9/13/07 Time: 11:38  
 Relinquished by: (Signature) \_\_\_\_\_ Date: 9/13/07 Time: 11:38

Project Requirements (MRLs, QAPP)  
 Cooler / Blank Ice / No Ice  
 Temperature \_\_\_\_\_ °C

**DIVIDER SHEET**

**ANALYTICAL DATA**  
**FOR**

**Hexavalent Chromium**

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**ANALYSIS**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client :** Battelle  
**Project Name :** JPL Groundwater Monitoring 3Q07  
**Project Number :** G486090  
**Sample Matrix :** WATER


**Service Request :** P0700818  
**Date Collected :** 09/10-13/07  
**Date Received :** 09/10-13/07

Chromium, Hexavalent

Prep Method : None  
 Analysis Method 7196A  
 Test Notes :

Units : mg/L (ppm)  
 Basis : NA

Sample Name	Lab Code	PQL	MDL	Dilution Factor	Date Extracted	Date/Time Analyzed	Result	Result Notes
MW-6	P0700818-001	0.01	0.005	1	NA	09/10/07 13:54	ND	
DUPE-4-3Q07	P0700818-002	0.01	0.005	1	NA	09/10/07 13:54	ND	
MW-7	P0700818-003	0.01	0.005	1	NA	09/11/07 15:25	ND	
MW-16	P0700818-004	0.01	0.005	1	NA	09/11/07 15:25	ND	
DUPE-5-3Q07	P0700818-005	0.01	0.005	1	NA	09/11/07 15:25	ND	
MW-13	P0700818-006	0.01	0.005	1	NA	09/12/07 14:20	0.07	
MW-8	P0700818-007	0.01	0.005	1	NA	09/12/07 14:20	ND	
DUPE-6-3Q07	P0700818-008	0.01	0.005	1	NA	09/12/07 14:20	0.06	
DUPE-7-3Q07	P0700818-009	0.01	0.005	1	NA	09/12/07 14:20	ND	
MW-10	P0700818-010	0.01	0.005	1	NA	09/13/07 13:23	ND	
Method Blank	P0700818-MB	0.01	0.005	1	NA	09/10/07 13:54	ND	
Method Blank	P0700818-MB	0.01	0.005	1	NA	09/11/07 15:25	ND	
Method Blank	P0700818-MB	0.01	0.005	1	NA	09/12/07 14:20	ND	
Method Blank	P0700818-MB	0.01	0.005	1	NA	09/13/07 13:23	ND	

Approved By  **15** Date : 9/18/07