

### **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.

**PACE ANALYTICAL SERVICES, INC.**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL85**

**February 28, 2008**



**Pace Analytical Services, Inc.**  
 940 S. Harney  
 Seattle, WA 98108

To: Battelle  
 Project Name: JPL Groundwater  
 SDG No.: JPL85  
 Date of Report: February 28, 2008

**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>Pace Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-21-5	JPL85-001	VOA/MET/PER
MW-21-4	JPL85-002	VOA/MET/PER
MW-21-3	JPL85-003	VOA/MET/PER
MW-21-2	JPL85-004	VOA/MET/PER
MW-21-1	JPL85-005	VOA/MET/PER
EB-1-1/23/08	JPL85-006	VOA/MET/PER
TB-1-1/23/08	JPL85-007	VOA

**Analytical Request Key:**

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

Summary of NELAC test accreditation

<b>Determination</b>	<b>NELAC approved</b>
200.8 Total Cr	YES
314.0 Perchlorate	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.  
 Three of six volatiles bottles submitted for MW-21-3 contained bubbles of less than 1/4 inch in size.  
 One of three volatile bottles submitted for MW-21-1 contained bubbles of less than 1/4 inch in size.  
 One of three volatile bottles submitted for EB-1-1/23/08 contained bubbles of less than 1/4 inch in size.  
 One of two volatile bottles submitted for TB-1-1/23/08 contained bubbles of greater 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.

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 performed on 1/18/2008 dichlorodifluoromethane exceeded 25% due to decreased response. Because analysis of the daily second source S012507MVOWY1 yielded a recovery that was within the 25%, 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:

Pace 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:

Sample EB-1-1/23/08 has a chromium result of 1.13 ug/L, which is greater than the PQL of 1.0 ug/L. Pace recognizes that client sample identifications beginning with "EB-", may be client equipment blanks. The client action level for chromium is 10 ug/L. Since sample EB-1-1/23/08 result for chromium is less than ½ the client action level, no further action was required. Data have been reported as is for sample EB-1-1/23/08. Data have not been flagged for this event.

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.
  - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- 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.
- Z Denotes data deemed unusable by the analyst.

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

Pace Analytical Services, Inc. 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

2/28/08  
(DATE)

  
Harry Rombertg  
Quality Assurance Officer

2/28/08  
(DATE)

*HOW TO CONTACT US:*

All Pace Analytical Services, Inc 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, Pace 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**

Met/Sample ID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr-314.0	Perchlorate	524.2 Volatile Organics + TICS (JPL Special list)
WD JPL85-001		01/24/2008 08:20 AM	01/23/2008 08:45 AM	MW-21-5	IN	IN
WD JPL85-002		01/24/2008 08:20 AM	01/23/2008 09:12 AM	MW-21-4	IN	IN
WD *JPL85-003		01/24/2008 08:20 AM	01/23/2008 09:42 AM	MW-21-3	IN	IN
WD JPL85-004		01/24/2008 08:20 AM	01/23/2008 10:33 AM	MW-21-2	IN	IN
WD JPL85-005		01/24/2008 08:20 AM	01/23/2008 11:05 AM	MW-21-1	IN	IN
WD JPL85-006		01/24/2008 08:20 AM	01/23/2008 10:52 AM	EB-1-1/23/08	IN	IN
WD JPL85-007		01/24/2008 08:20 AM	01/23/2008 12:00 AM	TB-1-1/23/08	IN	IN

Approved By:

On:

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

Matrices: Water=WD

FORM LTL-PM-8.0



**FORM SUMMARY**

SDG # JPL85

Volatiles Analysis

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21-5

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL85

Run Sequence: R025367

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL85-001

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

Lab File ID: Y0125011.D

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

Date Collected: 01/23/2008

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

Date Analyzed: 01/25/2008

GC Column: DB-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

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  
 SDG No.: JPL85  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-002  
 Lab File ID: Y0125012.D  
 Date Collected: 01/23/2008  
 Date Analyzed: 01/25/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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

Contract: JPL Groundwater Monitorin

SDG No.: JPL85

Run Sequence: R025367

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL85-003

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

Lab File ID: Y0125013.D

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

Date Collected: 01/23/2008

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

Date Analyzed: 01/25/2008

GC Column: DB-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

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.: JPL85  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-004  
 Lab File ID: Y0125014.D  
 Date Collected: 01/23/2008  
 Date Analyzed: 01/25/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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

Contract: JPL Groundwater Monitorin

SDG No.: JPL85

Run Sequence: R025367

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL85-005

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

Lab File ID: Y0125015.D

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

Date Collected: 01/23/2008

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

Date Analyzed: 01/25/2008

GC Column: DB-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

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-1-1/23/08

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL85  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-006  
 Lab File ID: Y0125016.D  
 Date Collected: 01/23/2008  
 Date Analyzed: 01/25/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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.

TB-1-1/23/08

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL85  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-007  
 Lab File ID: Y0125010.D  
 Date Collected: 01/23/2008  
 Date Analyzed: 01/25/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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.

B012508MVOWY1

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL85

Run Sequence: R025367

Matrix: (SOIL/WATER) Water

Lab Sample ID: B012508MVOWY1

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

Lab File ID: Y0125008.D

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

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

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

Date Analyzed: 01/25/2008

GC Column: DB-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

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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL85  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-001  
 Lab File ID: Y0125011.D  
 Date Collected: 01/23/2008  
 Date/Time Analyzed: 01/25/2008 11:24  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.26	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	4.2	
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	0.50	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-21-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL85  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-001  
 Lab File ID: Y0125011.D  
 Date Collected: 01/23/2008  
 Date/Time Analyzed: 01/25/2008 11:24  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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-21-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL85  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-001  
 Lab File ID: Y0125011.D  
 Date Collected: 01/23/2008  
 Date/Time Analyzed: 01/25/2008 11:24  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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-21-4

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL85

Run Sequence: R025367

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL85-002

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

Lab File ID: Y0125012.D

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

Date Collected: 01/23/2008

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

Date/Time Analyzed: 01/25/2008 11:49

GC Column: DB-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:	
		<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	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	5.4	
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-21-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL85  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-002  
 Lab File ID: Y0125012.D  
 Date Collected: 01/23/2008  
 Date/Time Analyzed: 01/25/2008 11:49  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	2.3	
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-21-4

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL85

Run Sequence: R025367

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL85-002

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

Lab File ID: Y0125012.D

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

Date Collected: 01/23/2008

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

Date/Time Analyzed: 01/25/2008 11:49

GC Column: DB-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:	
		<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-21-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL85  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-003  
 Lab File ID: Y0125013.D  
 Date Collected: 01/23/2008  
 Date/Time Analyzed: 01/25/2008 12:14  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	Q
		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	0.73	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	1.7	
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	0.90	
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: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL85  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-003  
 Lab File ID: Y0125013.D  
 Date Collected: 01/23/2008  
 Date/Time Analyzed: 01/25/2008 12:14  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	3.8	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-3

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL85

Run Sequence: R025367

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL85-003

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

Lab File ID: Y0125013.D

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

Date Collected: 01/23/2008

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

Date/Time Analyzed: 01/25/2008 12:14

GC Column: DB-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:	
		<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-21-2

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL85

Run Sequence: R025367

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL85-004

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

Lab File ID: Y0125014.D

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

Date Collected: 01/23/2008

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

Date/Time Analyzed: 01/25/2008 12:38

GC Column: DB-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:	
		<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	0.53	
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	0.50	
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-21-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL85  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-004  
 Lab File ID: Y0125014.D  
 Date Collected: 01/23/2008  
 Date/Time Analyzed: 01/25/2008 12:38  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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-21-2

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL85

Run Sequence: R025367

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL85-004

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

Lab File ID: Y0125014.D

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

Date Collected: 01/23/2008

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

Date/Time Analyzed: 01/25/2008 12:38

GC Column: DB-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:	
		<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-21-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL85  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-005  
 Lab File ID: Y0125015.D  
 Date Collected: 01/23/2008  
 Date/Time Analyzed: 01/25/2008 13:03  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.33	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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL85  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-005  
 Lab File ID: Y0125015.D  
 Date Collected: 01/23/2008  
 Date/Time Analyzed: 01/25/2008 13:03  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL85  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-005  
 Lab File ID: Y0125015.D  
 Date Collected: 01/23/2008  
 Date/Time Analyzed: 01/25/2008 13:03  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</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.

EB-1-1/23/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL85

Run Sequence: R025367

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL85-006

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

Lab File ID: Y0125016.D

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

Date Collected: 01/23/2008

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

Date/Time Analyzed: 01/25/2008 13:28

GC Column: DB-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:	
		<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-1-1/23/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL85

Run Sequence: R025367

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL85-006

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

Lab File ID: Y0125016.D

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

Date Collected: 01/23/2008

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

Date/Time Analyzed: 01/25/2008 13:28

GC Column: DB-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:	
		<u>ug/L</u>	<u>Q</u>
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-1-1/23/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL85

Run Sequence: R025367

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL85-006

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

Lab File ID: Y0125016.D

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

Date Collected: 01/23/2008

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

Date/Time Analyzed: 01/25/2008 13:28

GC Column: DB-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:	
		<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-1-1/23/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL85  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-007  
 Lab File ID: Y0125010.D  
 Date Collected: 01/23/2008  
 Date/Time Analyzed: 01/25/2008 10:59  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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-1-1/23/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL85  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025367  
 Lab Sample ID: JPL85-007  
 Lab File ID: Y0125010.D  
 Date Collected: 01/23/2008  
 Date/Time Analyzed: 01/25/2008 10:59  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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-1-1/23/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL85

Run Sequence: R025367

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL85-007

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

Lab File ID: Y0125010.D

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

Date Collected: 01/23/2008

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

Date/Time Analyzed: 01/25/2008 10:59

GC Column: DB-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:	
		<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**

**JPL85**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-5

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL85

Matrix (soil/water): Water

Lab Sample ID: JPL85-001

Level (low/med): LOW

Date Received: 01/24/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	7.20			M	R025489

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

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

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

Date Printed: 2/1/2008 12:04



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-4

Lab Name: Laucks Laboratories Contract: JPL Groundwater Monitorin  
 Lab Code: LAUCKS SDG No.: JPL85  
 Matrix (soil/water): Water Lab Sample ID: JPL85-002  
 Level (low/med): LOW Date Received: 01/24/2008  
 % Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	7.08			M	R025489

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

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

Date Printed: 2/1/2008 12:04

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL85

Matrix (soil/water): Water

Lab Sample ID: JPL85-003

Level (low/med): LOW

Date Received: 01/24/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.90			M	R025489

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

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

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

Date Printed: 2/1/2008 12:04

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-2

Lab Name: Laucks Laboratories Contract: JPL Groundwater Monitorin  
 Lab Code: LAUCKS SDG No.: JPL85  
 Matrix (soil/water): Water Lab Sample ID: JPL85-004  
 Level (low/med): LOW Date Received: 01/24/2008  
 % Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.98			M	R025489

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

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

Date Printed: 2/1/2008 12:04

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-21-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL85

Matrix (soil/water): Water

Lab Sample ID: JPL85-005

Level (low/med): LOW

Date Received: 01/24/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	7.84			M	R025489

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

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

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

Date Printed: 2/1/2008 12:04

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-1-1/23/08

Lab Name: Laucks Laboratories Contract: JPL Groundwater Monitorin  
 Lab Code: LAUCKS SDG No.: JPL85  
 Matrix (soil/water): Water Lab Sample ID: JPL85-006  
 Level (low/med): LOW Date Received: 01/24/2008  
 % Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.13			M	R025489

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

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

Date Printed: 2/1/2008 12:04

**FORMS SUMMARY**

**JPL85**

**Miscellaneous Inorganics**

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL85  
Sample Number: MW-21-5 Date/Time Collected: 01/23/2008 08:45  
Lab Sample ID: JPL85-001 Date/Time Received: 01/24/2008 08:20  
Method/Qbatch\*: E314.0/26860 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	02/07/2008	02/11/2008	R025724

\*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 2/27/2008 9:10

**SUM - 86**

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL85  
Sample Number: MW-21-4 Date/Time Collected: 01/23/2008 09:12  
Lab Sample ID: JPL85-002 Date/Time Received: 01/24/2008 08:20  
Method/Qbatch\*: E314.0/26860 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	3	3.0	U	3.0	0.42	02/07/2008	02/11/2008	R025724

\*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 2/27/2008 9:10

**SUM - 87**



Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL85  
Sample Number: MW-21-3 Date/Time Collected: 01/23/2008 09:42  
Lab Sample ID: JPL85-003 Date/Time Received: 01/24/2008 08:20  
Method/Qbatch\*: E314.0/26860 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	5	5.0	U	5.0	0.70	02/07/2008	02/11/2008	R025724

\*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 2/27/2008 9:10

**SUM - 88**

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL85  
Sample Number: MW-21-2 Date/Time Collected: 01/23/2008 10:33  
Lab Sample ID: JPL85-004 Date/Time Received: 01/24/2008 08:20  
Method/Qbatch\*: E314.0/26860 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	5	5.0	U	5.0	0.70	02/07/2008	02/12/2008	R025724

\*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL85  
Sample Number: MW-21-1 Date/Time Collected: 01/23/2008 11:05  
Lab Sample ID: JPL85-005 Date/Time Received: 01/24/2008 08:20  
Method/Qbatch\*: E314.0/27244 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	4.0	U	4.0	0.56	02/22/2008	02/23/2008	R026092

\*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 2/27/2008 9:10

**SUM - 90**

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL85  
Sample Number: EB-1-1/23/08 Date/Time Collected: 01/23/2008 10:52  
Lab Sample ID: JPL85-006 Date/Time Received: 01/24/2008 08:20  
Method/Qbatch\*: E314.0/27244 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	02/22/2008	02/23/2008	R026092

\*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 2/27/2008 9:10

**SUM - 91**

**PACE ANALYTICAL SERVICES, INC.**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL86**

**March 17, 2008**

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL86  
Date of Report: March 17, 2008

**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>Pace Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-12-5	JPL86-001	VOA/PER
MW-12-4	JPL86-002	VOA/PER
MW-12-3	JPL86-003	VOA/MET/PER
MW-12-2	JPL86-004	VOA/MET/PER
MW-12-1	JPL86-005	VOA/MET/PER
EB-2-01/28/08	JPL86-006	VOA/MET/PER
TB-2-01/28/08	JPL86-007	VOA

**Analytical Request Key:**

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

Summary of NELAC test accreditation

<b>Determination</b>	<b>NELAC approved</b>
TurMet for 200.7/200.8 TurMet	NO
200.8 Total Cr	YES
314.0 Perchlorate	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.  
Two of three volatiles bottles submitted for MW-12-5 contained bubbles of less than 1/4 inch in size.  
Three of three volatiles bottles submitted for MW-12-4 contained bubbles of less than 1/4 inch in size.  
One of three volatiles bottles submitted for MW-12-3 contained bubbles of greater than 1/4 inch in size.  
One of two volatiles bottles submitted for TB-2-01/28/08 contained bubbles of less than 1/4 inch in size.

**Pace Analytical Services, Inc.**

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:

Method Blank

Analysis of the method blank performed on 02/01/2008 resulted in the detection of naphthalene at a concentration level less than the reporting limit. This analyte was not detected in any associated samples, so no further action was taken.

All other 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 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.

**Pace Analytical Services, Inc.**  
940 S. Harney  
Seattle, WA 98108

**SPECIFIC REMARKS ON INORGANIC ANALYSES:**

Holding Time Compliance:

Pace 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	EB-2-01/28/08

EB-2-01/28/08 was originally analyzed for perchlorate within holding time, but was reanalyzed due to instrument failures on original run.

ICP-MS Metals:

No comments.

Miscellaneous Inorganics:

No comments.



**Pace Analytical Services, Inc.**

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.
  - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

**Pace Analytical Services, Inc.**

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.
  - Z Denotes data deemed unusable by the analyst.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**Pace Analytical Services, Inc.**  
940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. 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

3/18/08  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

3/18/08  
(DATE)

*HOW TO CONTACT US:*

All Pace Analytical Services, Inc. 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, Pace 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.

**Pace Analytical Services, Inc.**  
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
WD JPL86-001	01/29/2008 09:20 AM	01/28/2008 08:15 AM	MW-12-5		IN	IN	
WD JPL86-002	01/29/2008 09:20 AM	01/28/2008 08:39 AM	MW-12-4		IN	IN	
WD JPL86-003	01/29/2008 09:20 AM	01/28/2008 09:21 AM	MW-12-3	IN	IN	IN	IN
WD JPL86-004	01/29/2008 09:20 AM	01/28/2008 09:58 AM	MW-12-2	IN	IN	IN	IN
WD *JPL86-005	01/29/2008 09:20 AM	01/28/2008 10:27 AM	MW-12-1	IN	IN	IN	IN
WD JPL86-006	01/29/2008 09:20 AM	01/28/2008 10:22 AM	EB-2- 01/28/08	IN	IN	IN	IN
WD JPL86-007	01/29/2008 09:20 AM	01/28/2008 12:00 AM	TB-2- 01/28/08			IN	

On:

Approved By:  
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  
Matrices: Water=WD

FORM LTL-PM-8.0

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

GOOD W/ 6046

COMPANY: BATTLE  
 ADDRESS: 3770 OLD TOWN AVE., G-205  
SAV DIEDO, CA 94110  
 ATTENTION: DAVID CONNER  
 PROJECT NAME: SPL GEN MOD 1808  
 PROJECT CONTACT: DAVID CONNER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/PO. NO.: 6486050 / 214319

CHAIN OF CUSTODY RECORD

43097

JPL 816 SDG # EPHANT 100


PAGE 1 OF 1

WORK ORDER ID#

SUBMITTED AT:

900 South Terry St. Seattle, WA 98108 (206) 767-5000 FAX 767-5063  
 1100 Ludwick Ave. Yakima, WA 98902 (509) 256-4935 FAX 452-1265

TESTS TO PERFORM

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	TESTS TO PERFORM
	VOC (524.0)	
	TOTAL CR (600.0)	
	ClO4-(314.0)	

LAB S/N	SAMPLE ID / LOCATION	DATE	TIME	W	Y	X	X	X	TESTS TO PERFORM
1	MV-12-5	1/26/08	0815		X		X		
2	MV-12-4		0839		X		X		
3	MV-12-3		0921		X	X	X		
4	MV-12-2		0958		X	X	X		
5	MV-12-1		1027		X	X	X		MS/MSD
6	EB-2-01/28/08		1022		X	X	X		ETAMPMENT-BLANK
7	7B-2-01/28/08		-		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: BATTLE ADDRESS: 505 BIRKING AVE.  
 ATTN: CORNALD THOMAS CITY, STATE, ZIP: COLUMBUS, OH 43201

RECEIVED BY (SIGN AND PRINT): Kristin Klein DATE/TIME: 1-29-08 0930

LABORATORY APPROVAL

RECEIVED BY (SIGN AND PRINT): [Signature] DATE/TIME: 01/28/08 1300

RECEIVED BY (SIGN AND PRINT): [Signature] DATE/TIME: 01/29/08 0930

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



**FORMS SUMMARY**

SDG JPL86

VOLATILES ANALYSIS

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-001  
 Lab File ID: M0201018.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 15:28  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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	0.39	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



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-001  
 Lab File ID: M0201018.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 15:28  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-001  
 Lab File ID: M0201018.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 15:28  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-12-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-002  
 Lab File ID: M0201019.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 15:54  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.83	
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	0.53	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-002  
 Lab File ID: M0201019.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 15:54  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-002  
 Lab File ID: M0201019.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 15:54  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-12-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-003  
 Lab File ID: M0201020.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 16:21  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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	5.2	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.27	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	0.54	
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-003  
 Lab File ID: M0201020.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 16:21  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-003  
 Lab File ID: M0201020.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 16:21  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-12-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-004  
 Lab File ID: M0201021.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 16:47  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.33	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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-004  
 Lab File ID: M0201021.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 16:47  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-004  
 Lab File ID: M0201021.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 16:47  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-12-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-005  
 Lab File ID: M0201022.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 17:14  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-005  
 Lab File ID: M0201022.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 17:14  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-005  
 Lab File ID: M0201022.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 17:14  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

EB-2-01/28/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-006  
 Lab File ID: M0201023.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 17:40  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-2-01/28/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-006  
 Lab File ID: M0201023.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 17:40  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-2-01/28/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL86

Run Sequence: R025582

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL86-006

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0201023.D

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

Date Collected: 01/28/2008

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

Date/Time Analyzed: 02/01/2008 17:40

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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-2-01/28/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-007  
 Lab File ID: M0201017.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 15:01  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-2-01/28/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-007  
 Lab File ID: M0201017.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 15:01  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-2-01/28/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL86  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-007  
 Lab File ID: M0201017.D  
 Date Collected: 01/28/2008  
 Date/Time Analyzed: 02/01/2008 15:01  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-12-5

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL86  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-001  
 Lab File ID: M0201018.D  
 Date Collected: 01/28/2008  
 Date Analyzed: 02/01/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
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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.: JPL86  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-002  
 Lab File ID: M0201019.D  
 Date Collected: 01/28/2008  
 Date Analyzed: 02/01/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
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29				
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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

Contract: JPL Groundwater Monitorin

SDG No.: JPL86

Run Sequence: R025582

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL86-003

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0201020.D

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

Date Collected: 01/28/2008

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

Date Analyzed: 02/01/2008

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
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29				
30				

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.: JPL86  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025582  
 Lab Sample ID: JPL86-004  
 Lab File ID: M0201021.D  
 Date Collected: 01/28/2008  
 Date Analyzed: 02/01/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
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29				
30				

Comments:



1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-12-1

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL86

Run Sequence: R025582

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL86-005

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0201022.D

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

Date Collected: 01/28/2008

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

Date Analyzed: 02/01/2008

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

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

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-2-01/28/08

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL86

Run Sequence: R025582

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL86-006

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0201023.D

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

Date Collected: 01/28/2008

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

Date Analyzed: 02/01/2008

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

	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-2-01/28/08

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL86

Run Sequence: R025582

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL86-007

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0201017.D

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

Date Collected: 01/28/2008

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

Date Analyzed: 02/01/2008

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
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29					
30					

Comments:

**FORMS SUMMARY**

**JPL86**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-12-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL86

Matrix (soil/water): Water

Lab Sample ID: JPL86-003

Level (low/med): LOW

Date Received: 01/29/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.18			M	R025605

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

Color After: Colorless Clarity After: Clear Artifacts: No

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

Date Printed: 2/4/2008 10:18

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-12-2

Lab Name: Laucks LaboratoriesContract: JPL Groundwater MonitorinLab Code: LAUCKSSDG No.: JPL86Matrix (soil/water): WaterLab Sample ID: JPL86-004Level (low/med): LOWDate Received: 01/29/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.05			M	R025605

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: NoComment \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date Printed: 2/4/2008 10:18

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-12-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL86

Matrix (soil/water): Water

Lab Sample ID: JPL86-005

Level (low/med): LOW

Date Received: 01/29/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	2.23			M	R025605

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

Color After: Colorless Clarity After: Clear Artifacts: No

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

Date Printed: 2/4/2008 10:18

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-2-01/28/08

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL86

Matrix (soil/water): Water

Lab Sample ID: JPL86-006

Level (low/med): LOW

Date Received: 01/29/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U		M	R025605

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

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

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

Date Printed: 2/4/2008 10:18



**FORMS SUMMARY**

**JPL86**

**Miscellaneous Inorganics**

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL86  
Sample Number: MW-12-5 Date/Time Collected: 01/28/2008 08:15  
Lab Sample ID: JPL86-001 Date/Time Received: 01/29/2008 09:20  
Method/Qbatch\*: E314.0/27244 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.1		2.0	0.28	02/22/2008	02/23/2008	R026092

\*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 3/13/2008 9:38

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL86  
Sample Number: MW-12-4 Date/Time Collected: 01/28/2008 08:39  
Lab Sample ID: JPL86-002 Date/Time Received: 01/29/2008 09:20  
Method/Qbatch\*: E314.0/27244 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	4.2		2.0	0.28	02/22/2008	02/23/2008	R026092

\*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 3/13/2008 9:38

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL86  
Sample Number: MW-12-3 Date/Time Collected: 01/28/2008 09:21  
Lab Sample ID: JPL86-003 Date/Time Received: 01/29/2008 09:20  
Method/Qbatch\*: E314.0/27244 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	02/22/2008	02/23/2008	R026092

\*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 3/13/2008 9:38

**SUM - 91**

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL86  
Sample Number: MW-12-2 Date/Time Collected: 01/28/2008 09:58  
Lab Sample ID: JPL86-004 Date/Time Received: 01/29/2008 09:20  
Method/Qbatch\*: E314.0/27244 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.8		2.0	0.28	02/22/2008	02/23/2008	R026092

\*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 3/13/2008 9:38

SUM - 92

**Pace Analytical Services, Inc.**

**Final Results**

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL86  
**Sample Number:** MW-12-1 **Date/Time Collected:** 01/28/2008 10:27  
**Lab Sample ID:** JPL86-005 **Date/Time Received:** 01/29/2008 09:20  
**Method/Qbatch\*:** E314.0/27244 **Unit:** ug/L  
**Instrument:** Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	02/22/2008	02/23/2008	R026092

\*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL86  
Sample Number: EB-2-01/28/08 Date/Time Collected: 01/28/2008 10:22  
Lab Sample ID: JPL86-006 Date/Time Received: 01/29/2008 09:20  
Method/Qbatch\*: E314.0/27597 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	03/05/2008	03/05/2008	R026449

\*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 3/13/2008 9:38

**PACE ANALYTICAL SERVICES, INC.**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL87**

**March 27, 2008**



**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL87  
Date of Report: March 27, 2008

**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>Pace Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-11-4	JPL87-001	VOA/PER
MW-11-3	JPL87-002	VOA/MET/PER
MW-11-2	JPL87-003	VOA/MET/PER
MW-11-1	JPL87-004	VOA/MET/PER/ANIONS
DUPE-1-IQ08	JPL87-005	VOA/MET/PER/ANIONS
MW-22-3	JPL87-006	VOA/MET/SUB
MW-22-2	JPL87-007	VOA/MET/SUB
MW-22-1	JPL87-008	VOA/MET/SUB
EB-3-01/29/08	JPL87-009	VOA/MET/SUB
TB-3-01/29/08	JPL87-010	VOA

**Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0)  
SUB = Perchlorate (314.0) Subcontracted to Weck Laboratories  
ANIONS = Chloride, Nitrate, Nitrite, Sulfate, Ortho phosphorus (300.0)

Summary of NELAC test accreditation

<b>Determination</b>	<b>NELAC approved</b>
TurMet for 200.7/200.8 TurMet	NO
200.8 Total Cr	YES
300.0 Low Level NO3, NO2, Cl, SO4, OPO4	YES
314.0 Perchlorate	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

**Sample Receipt Comments:**

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

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

One of three volatiles bottles submitted for MW-11-3 contained bubbles of less than 1/4 inch in size. Two of three volatiles bottles submitted for DUPE-1-IQ08 contained bubbles of less than 1/4 inch in size. One of three volatiles bottles submitted for MW-22-1 contained bubbles of greater 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.

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 02/05/2008 resulted in the detection of 1,2,3-trichlorobenzene at a concentration level above the reporting limit. Because this analyte was not detected in any associated samples, no further action was taken.

Quality Control Analyses:

MS/MSD analyses were not performed due to insufficient sample volume. All spiking analytes in the blank spike analysis recovered within control limits.

All other 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."

Pace Analytical Services, Inc.  
940 S. Harney  
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:

Pace 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

Samples MW-11-1 and DUPE-1-IQ08 were analyzed past the 48 hour holding time for the nitrate, nitrite and ortho phosphorus analysis due to instrumentation issues.

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-11-1. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms 1 and 9.

Miscellaneous Inorganics:

For run sequence R025814, the matrix spike and matrix spike duplicate recovered low for the chloride, orthophosphate and sulfate analysis. All other quality control elements were within control limits. Therefore, no further action was taken.

## Pace Analytical Services, Inc.

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.
  - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

**Pace Analytical Services, Inc.**  
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.
  - Z Denotes data deemed unusable by the analyst.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. 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

3/27/08  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

3/27/08  
(DATE)

*HOW TO CONTACT US:*

All Pace Analytical Services, Inc. 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, Pace 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.

**Pace Analytical Services, Inc.**  
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 <b>9</b> 200.7/200.8 TurMet
WD JPL87-001	01/30/2008 08:50 AM	01/29/2008 10:24 AM	MW-11-4	IN		IN	IN	IN
WD JPL87-002	01/30/2008 08:50 AM	01/29/2008 10:50 AM	MW-11-3	IN		IN	IN	IN
WD JPL87-003	01/30/2008 08:50 AM	01/29/2008 11:20 AM	MW-11-2	IN		IN	IN	IN
WD *JPL87-004	01/30/2008 08:50 AM	01/29/2008 12:03 PM	MW-11-1	IN	IN	IN	IN	IN
WD JPL87-005	01/30/2008 08:50 AM	01/29/2008 12:00 AM	DUPE-1- IQ08	IN	IN	IN	IN	IN
WD JPL87-006	01/30/2008 08:50 AM	01/29/2008 07:51 AM	MW-22-3	IN		IN	IN	IN
WD JPL87-007	01/30/2008 08:50 AM	01/29/2008 08:27 AM	MW-22-2	IN		IN	IN	IN
WD JPL87-008	01/30/2008 08:50 AM	01/29/2008 09:01 AM	MW-22-1	IN		IN	IN	IN
WD JPL87-009	01/30/2008 08:50 AM	01/29/2008 08:20 AM	EB-3- 01/29/08	IN		IN	IN	IN
WD JPL87-010	01/30/2008 08:50 AM	01/29/2008 12:00 AM	TB-3- 01/29/08				IN	IN

Approved By:  
Notes:

On:

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

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

Matrices: Water=WD

FORM LTL-PM-8.0



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

6074

COMPANY: **BATTLE**  
 ADDRESS: **3790 OLD TOWN AVE., C-205**  
**SAN DIEGO, CA 92110**  
 ATTENTION: **DAVID COULDER**  
 PROJECT NAME: **SPL CIV MAN. 1008**  
 PROJECT CONTACT: **DAVID COULDER**  
 TELEPHONE: **619-726-7311** FAX: \_\_\_\_\_  
 JOB/P.O. NO.: **6486090/214219**

CHAIN OF CUSTODY RECORD

43096

SDG # JPL 87

PAGE 1 OF 1

WORK ORDER ID#

SUBMITTED AT:

**Laucks**  
 Testing Laboratories, Inc.  
 940 South Hanney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063  
 1106 Ledwith Ave., Yakima, WA 98902 (509) 248-4695 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY  
 NO. OF CONTAINERS  
 VOL (524.2)  
 TOTAL CG (200.8)  
 CHLOR - (314.0)  
 C, S, P, N, NH4, NI, NITR (300.0)  
 D-PLAS PLATE

TESTS TO PERFORM

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

LAB SAM	SAMPLE ID / LOCATION	DATE	TIME	W	Y	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1	MW-11-4	01/29/08	1024																		
2	MW-11-3		1050																		
3	MW-11-2		1126																		
4	MW-11-1		1203																		
5	DURE - 1 - 1008																				

LEVEL III RC  
 DUPLICATE

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.

REINQUISHED BY / SIGN AND PRINT: **CHASE BROGDON**

NAME: **BATTLE**  
 ATTN: **GERALD TAYMANS**

ADDRESS: **505 BINKS AVE.**  
 CITY, STATE, ZIP: **COLUMBUS, OH 43201**

DATE: **01/29/08**  
 TIME: **1400**

RECEIVED BY / SIGN AND PRINT: **K Klein**

\* 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

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

COMPANY: BATTLE  
ADDRESS: 3770 OLD TOWN AVE. C-205  
SAN DIEGO, CA 92110

ATTENTION: DAVID CONNER

PROJECT NAME: SPL CIVIL 1008

PROJECT CONTACT: DAVID CONNER

TELEPHONE: 619-726-7311 FAX: 619-726-7311

JOB/PO. NO.: 4488090/214319

CHAIN OF CUSTODY RECORD

44224

SDG # JPL 87

WORK ORDER ID#

PAGE 1 OF 1  
SUBMITTED AT:

940 South Harvey St, Seattle, WA 98108 (206) 767-5060 FAX 767-5063  
1106 Lockvich Ave, Yakima, WA 98902 (509) 248-4495 FAX 452-1265



MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
	VOL (524.2) TOTAL W (200.8) CLAY (314.0)	2	

LAB #	SAMPLE ID / LOCATION	DATE	TIME						
4	MW-22-3	01/29/08	0751	3	5	X	X	X	
7	MW-22-2		0827			X	X	X	
8	MW-22-1		0901			X	X	X	
9	EB-3-01/29/08		0820			X	X	X	EQUIP BLANK
10	TR-3-01/29/08		-			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.

- 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)

DATE TIME

RECEIVED BY (SIGN AND PRINT)

DATE TIME

INSTRUCTIONS BILLING INFORMATION (IF DIFFERENT THAN ABOVE)

NAME: BATTLE  
ADDRESS: SDS BUNDA 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 (50% SUR)  
 OTHER:  
 TEMP.  
 CUSTODY SEAL:  Y  N  N/A

RELINQUISHED BY (SIGN AND PRINT): [Signature] CHASE BORTZ  
 DATE TIME: 01/29/08 1400  
 RECEIVED BY (SIGN AND PRINT): [Signature] M. Klein  
 DATE TIME: 1-30-08 0850

**FORMS SUMMARY**

SDG JPL87

VOLATILES ANALYSIS

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-4

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-001

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205013.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 12:36

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:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-4

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-001

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205013.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 12:36

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:	
		<u>ug/L</u>	<u>Q</u>
108-88-3	Toluene	0.50	U
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	1,1,1,2-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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-4

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-001

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205013.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 12:36

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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-11-3

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-002

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205014.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 13:03

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:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-002  
 Lab File ID: M0205014.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 13:03  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-002  
 Lab File ID: M0205014.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 13:03  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-11-2

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-003

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205015.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 13:33

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:	
		<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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-2

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-003

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205015.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 13:33

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:	
		<u>ug/L</u>	<u>Q</u>
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-003  
 Lab File ID: M0205015.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 13:33  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-11-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-004  
 Lab File ID: M0205016.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 14:00  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-1

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-004

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205016.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 14:00

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:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-004  
 Lab File ID: M0205016.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 14:00  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

DUPE-1-IQ08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-005

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205017.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 14:26

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:	
		<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



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-1-IQ08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-005

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205017.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 14:26

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:	
		<u>ug/L</u>	<u>Q</u>
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-1-IQ08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-005  
 Lab File ID: M0205017.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 14:26  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-22-3

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-006

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205018.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 14:53

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	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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-3

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-006

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205018.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 14:53

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:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-3

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-006

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205018.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 14:53

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:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-22-2

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-007

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205019.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 15:20

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:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-007  
 Lab File ID: M0205019.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 15:20  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-007  
 Lab File ID: M0205019.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 15:20  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-22-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-008  
 Lab File ID: M0205020.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 15:47  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.35	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	0.34	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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-1

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-008

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205020.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 15:47

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:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.81	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22-1

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-008

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205020.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 15:47

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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

EB-3-01/29/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-009  
 Lab File ID: M0205010.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 11:12  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-3-01/29/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-009  
 Lab File ID: M0205010.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 11:12  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-3-01/29/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-009  
 Lab File ID: M0205010.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 11:12  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		ug/L	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-3-01/29/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-010  
 Lab File ID: M0205009.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 10:45  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-3-01/29/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL87

Run Sequence: R025647

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL87-010

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: M0205009.D

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

Date Collected: 01/29/2008

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

Date/Time Analyzed: 02/05/2008 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:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-3-01/29/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL87  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025647  
 Lab Sample ID: JPL87-010  
 Lab File ID: M0205009.D  
 Date Collected: 01/29/2008  
 Date/Time Analyzed: 02/05/2008 10:45  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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**

**JPL87**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-11-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL87

Matrix (soil/water): Water

Lab Sample ID: JPL87-002

Level (low/med): LOW

Date Received: 01/30/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	7.99		E	M	R025605

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

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

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

Date Printed: 2/4/2008 10:20

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-11-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL87

Matrix (soil/water): Water

Lab Sample ID: JPL87-003

Level (low/med): LOW

Date Received: 01/30/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	7.75		E	M	R025605

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

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

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

Date Printed: 2/4/2008 10:20

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-11-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL87

Matrix (soil/water): Water

Lab Sample ID: JPL87-004

Level (low/med): LOW

Date Received: 01/30/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.52		E	M	R025605

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

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

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

Date Printed: 2/4/2008 10:20

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-1-IQ08

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL87

Matrix (soil/water): Water

Lab Sample ID: JPL87-005

Level (low/med): LOW

Date Received: 01/30/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	8.61		E	M	R025605

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

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

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

Date Printed: 2/4/2008 10:20

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-22-3

Lab Name: Laucks LaboratoriesContract: JPL Groundwater MonitorinLab Code: LAUCKSSDG No.: JPL87Matrix (soil/water): WaterLab Sample ID: JPL87-006Level (low/med): LOWDate Received: 01/30/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.81		E	M	R025605

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

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

Comment \_\_\_\_\_

\_\_\_\_\_

Date Printed: 2/4/2008 10:20

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-22-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL87

Matrix (soil/water): Water

Lab Sample ID: JPL87-007

Level (low/med): LOW

Date Received: 01/30/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	8.73		E	M	R025605

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

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

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

Date Printed: 2/4/2008 10:20



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-22-1

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL87

Matrix (soil/water): Water

Lab Sample ID: JPL87-008

Level (low/med): LOW

Date Received: 01/30/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	11.6		E	M	R025605

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

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

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

Date Printed: 2/4/2008 10:20

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-3-01/29/08

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL87

Matrix (soil/water): Water

Lab Sample ID: JPL87-009

Level (low/med): LOW

Date Received: 01/30/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U	E	M	R025605

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

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

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

Date Printed: 2/4/2008 10:20

**FORMS SUMMARY**

**JPL87**

**Miscellaneous Inorganics**

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL87  
Sample Number: MW-11-4 Date/Time Collected: 01/29/2008 10:24  
Lab Sample ID: JPL87-001 Date/Time Received: 01/30/2008 08:50  
Method/Qbatch\*: E314.0/27597 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	03/05/2008	03/05/2008	R026449

\*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 3/21/2008 15:10

**SUM - 81**

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL87  
Sample Number: MW-11-3 Date/Time Collected: 01/29/2008 10:50  
Lab Sample ID: JPL87-002 Date/Time Received: 01/30/2008 08:50  
Method/Qbatch\*: E314.0/27597 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	03/05/2008	03/05/2008	R026449

\*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL87  
Sample Number: MW-11-2 Date/Time Collected: 01/29/2008 11:20  
Lab Sample ID: JPL87-003 Date/Time Received: 01/30/2008 08:50  
Method/Qbatch\*: E314.0/27597 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	03/05/2008	03/05/2008	R026449

\*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 3/21/2008 15:10

**SUM - 83**

**Pace Analytical Services, Inc.**

**Final Results**

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL87  
**Sample Number:** MW-11-1 **Date/Time Collected:** 01/29/2008 12:03  
**Lab Sample ID:** JPL87-004 **Date/Time Received:** 01/30/2008 08:50

**Method/Qbatch\*:** E300.0/26951 **Unit:** mg/L  
**Instrument:** Ion Chromatograph (2) **File:** R025814\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	1.0		0.040	0.055	02/08/2008	02/08/2008	R025814
Nitrite - N	14797-65-0	1	0.050	U	0.050	0.017	02/08/2008	02/08/2008	R025814
Sulfate as SO4	14808-79-8	10	48		10	1.7	02/08/2008	02/08/2008	R025814
Chloride	16887-00-6	10	21		2.0	0.76	02/08/2008	02/08/2008	R025814
Orthophosphate	7723-14-0	1	0.10	U	0.10	0.33	02/08/2008	02/08/2008	R025814

**Method/Qbatch\*:** E314.0/27597 **Unit:** ug/L  
**Instrument:** Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	03/05/2008	03/05/2008	R026449

\*QBatch=QC/Preparation Batch  
 FORM LTL-RSR-27.0

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL87  
Sample Number: DUPE-1-IQ08 Date/Time Collected: 01/29/2008 00:00  
Lab Sample ID: JPL87-005 Date/Time Received: 01/30/2008 08:50  
Method/Qbatch\*: E300.0/26951 Unit: mg/L  
Instrument: Ion Chromatograph (2) File: R025814\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	1.1		0.040	0.055	02/08/2008	02/08/2008	R025814
Nitrite - N	14797-65-0	1	0.050	U	0.050	0.017	02/08/2008	02/08/2008	R025814
Sulfate as SO4	14808-79-8	10	48		10	1.7	02/08/2008	02/08/2008	R025814
Chloride	16887-00-6	10	21		2.0	0.76	02/08/2008	02/08/2008	R025814
Orthophosphate	7723-14-0	1	0.10	U	0.10	0.33	02/08/2008	02/08/2008	R025814

Method/Qbatch\*: E314.0/27597 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	03/05/2008	03/05/2008	R026449

\*QBatch=QC/Preparation Batch



**Perchlorate Subcontractor Data**

**SDG.: JPL87**

**(Subcontracted to Weck Laboratories)**

8031803

Page: 1 of 2  
1195514

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>Pace</u>		Report To: <u>Kara Godineaux</u>		Attention:	
Address: <u>9405. Harney St. Seattle WA 98108</u>		Copy To:		Company Name:	
Email To:		Purchase Order No.:		REGULATORY AGENCY: <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Phone: <u>206-747-5060</u> Fax: <u>206-747-5063</u>		Project Name:		Site Location	
Requested Due Date/TAT: <u>Stand.</u>		Project Number:		STATE:	

ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	MATRIX CODE (See Matrix Codes on pg 1)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES						Analysis Test ↓ <u>Pack 0204</u>	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl				
1	EPTM 22-001	WT							X										
2	EPTM 22-003																		
3	EPTM 22-004																		
4	EPTM 22-005																		
5	EPTM 23-001																		
6	EPTM 23-003																		
7	EPTM 23-004																		
8	EPTM 23-005																		
9	JPL 87-004																		
10	JPL 87-007																		
11	JPL 87-008																		
12	JPL 87-009																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>Kristin Kline/Pace</u>	<u>3/17/08</u>	<u>1500</u>	<u>Jamie Gmber</u>	<u>3/18/08</u>	<u>9:15</u>	
				<u>2.24</u>			

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Seal/ Cooler (Y/N)	Sample intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:					

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

8031803

Page: 2 of 2  
1195512

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>Pace</u>		Report To: <u>Kara Godineaux</u>		Attention:	
Address: <u>9405. Harney St. Seattle WA 98108</u>		Copy To:		Company Name:	
Email To:		Purchase Order No.:		REGULATORY AGENCY: <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Phone: <u>206-747-5060</u> Fax: <u>206-747-5063</u>		Project Name:		Site Location	
Requested Due Date/TAT: <u>Stand.</u>		Project Number:		STATE:	

ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	MATRIX CODE (See Matrix Codes on pg 1)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES						Analysis Test ↓ <u>Pack 0204</u>	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl				
1	EPTM 21-001	WT							X										
2	EPTM 21-003																		
3	EPTM 21-004																		
4	EPTM 21-008																		
5	EPTM 21-009																		
6	EPTM 21-010																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>Kristin Kline/Pace</u>	<u>3/17/08</u>	<u>1500</u>	<u>Jamie Gmber</u>	<u>3/18/08</u>	<u>9:15</u>	
				<u>2.24</u>			

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Seal/ Cooler (Y/N)	Sample intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:					

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

SUB - 2



Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

14859 E. Clark Ave., Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634  
info@wecklabs.com www.wecklabs.com

### CERTIFICATE OF ANALYSIS

**Client:** Pace Analytical Services  
940 South Harney Street  
Seattle, WA 98108  
Attention: Kara Godineaux

**Report Date:** 03/25/08 17:05  
**Received Date:** 03/18/08 09:15  
**Turn Around:** Normal

**Work Order #:** 8031803

Phone: (206) 957-2422  
Fax: (206) 767-5063

**Client Project:** Laucks Testing

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Kara Godineaux :

Enclosed are the results of analyses for samples received 03/18/08 09:15 with the Chain of Custody document. The samples were received in good condition. The samples were received at 2.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

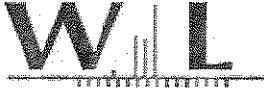
Reviewed by:

Kim G Tu

Project Manager

Page 1 of 23





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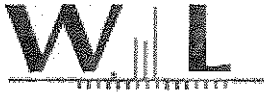
Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8031803  
Project ID: Laucks Testing

Date Received: 03/18/08 09:15  
Date Reported: 03/25/08 17:05

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
EPTM22-001	Client		8031803-01	Water	03/05/08 16:20
EPTM22-003	Client		8031803-02	Water	03/05/08 16:30
EPTM22-004	Client		8031803-03	Water	03/05/08 16:30
EPTM22-005	Client		8031803-04	Water	03/05/08 16:40
EPTM23-001	Client		8031803-05	Water	03/11/08 16:00
EPTM23-003	Client		8031803-06	Water	03/11/08 16:10
EPTM23-004	Client		8031803-07	Water	03/11/08 16:10
EPTM23-005	Client		8031803-08	Water	03/11/08 16:20
JPL87-006	Client		8031803-09	Water	01/29/08 07:51
JPL87-007	Client		8031803-10	Water	01/29/08 08:27
JPL87-008	Client		8031803-11	Water	01/29/08 09:01
JPL87-009	Client		8031803-12	Water	01/29/08 08:20
EPTM21-001	Client		8031803-13	Water	02/26/08 15:15
EPTM21-003	Client		8031803-14	Water	02/26/08 15:45
EPTM21-004	Client		8031803-15	Water	02/26/08 15:45
EPTM21-008	Client		8031803-16	Water	02/26/08 14:50
EPTM21-009	Client		8031803-17	Water	02/26/08 15:00
EPTM21-010	Client		8031803-18	Water	02/26/08 15:00



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Seattle WA, 98108

Report ID: 8031803  
Project ID: Laucks Testing

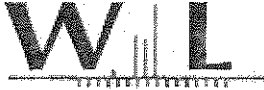
Date Received: 03/18/08 09:15  
Date Reported: 03/25/08 17:05

EPTM22-001 8031803-01 (Water)

Date Sampled: 03/05/08 16:20

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	330	4.5	ug/l	20	10	EPA 314.0	W8C0994	03/24/08	03/24/08	mac	



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Seattle WA, 98108

Report ID: 8031803  
Project ID: Laucks Testing

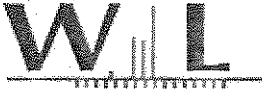
Date Received: 03/18/08 09:15  
Date Reported: 03/25/08 17:05

EPTM22-003 8031803-02 (Water)

Date Sampled: 03/05/08 16:30

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	9.8	0.45	ug/l	2.0	1	EPA 314.0	W8C0867	03/20/08	03/20/08	mac	



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Seattle WA, 98108

Report ID: 8031803  
Project ID: Laucks Testing

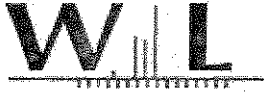
Date Received: 03/18/08 09:15  
Date Reported: 03/25/08 17:05

EPTM22-004 8031803-03 (Water)

Date Sampled: 03/05/08 16:30

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	8.8	0.45	ug/l	2.0	1	EPA 314.0	W8C0994	03/24/08	03/24/08	mac	



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Seattle WA, 98108

Report ID: 8031803  
Project ID: Laucks Testing

Date Received: 03/18/08 09:15  
Date Reported: 03/25/08 17:05

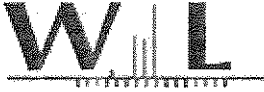
EPTM22-005 8031803-04 (Water)

Date Sampled: 03/05/08 16:40

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0867	03/20/08	03/20/08	mac	





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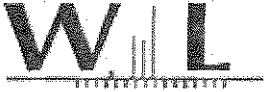
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8031803 Project ID: Laucks Testing	Date Received: 03/18/08 09:15 Date Reported: 03/25/08 17:05
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EPTM23-001 8031803-05 (Water)

Date Sampled: 03/11/08 16:00

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	290	4.5	ug/l	20	10	EPA 314.0	W8C0994	03/24/08	03/24/08	mac	



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Seattle WA, 98108

Report ID: 8031803  
Project ID: Laucks Testing

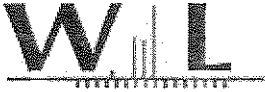
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Date Reported: 03/25/08 17:05

EPTM23-003 8031803-06 (Water)

Date Sampled: 03/11/08 16:10

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	87	0.90	ug/l	4.0	2	EPA 314.0	W8C0994	03/24/08	03/24/08	mac	



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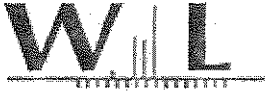
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8031803 Project ID: Laucks Testing	Date Received: 03/18/08 09:15 Date Reported: 03/25/08 17:05
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EPTM23-004 8031803-07 (Water)

Date Sampled: 03/11/08 16:10

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	91	0.90	ug/l	4.0	2	EPA 314.0	W8C0994	03/24/08	03/24/08	mac	



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Seattle WA, 98108

Report ID: 8031803  
Project ID: Laucks Testing

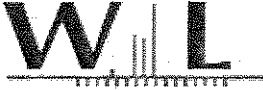
Date Received: 03/18/08 09:15  
Date Reported: 03/25/08 17:05

EPTM23-005 8031803-08 (Water)

Date Sampled: 03/11/08 16:20

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0994	03/24/08	03/24/08	mac	



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Seattle WA, 98108

Report ID: 8031803  
Project ID: Laucks Testing

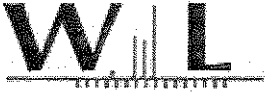
Date Received: 03/18/08 09:15  
Date Reported: 03/25/08 17:05

JPL87-006 8031803-09 (Water)

Date Sampled: 01/29/08 07:51

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.3	0.45	ug/l	2.0	1	EPA 314.0	W8C0994	03/24/08	03/24/08	mac	



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Seattle WA, 98108

Report ID: 8031803  
Project ID: Laucks Testing

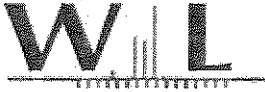
Date Received: 03/18/08 09:15  
Date Reported: 03/25/08 17:05

JPL87-007 8031803-10 (Water)

Date Sampled: 01/29/08 08:27

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.3	0.45	ug/l	2.0	1	EPA 314.0	W8C0994	03/24/08	03/24/08	mac	



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940 South Harney Street  
Seattle WA, 98108

Report ID: 8031803  
Project ID: Laucks Testing

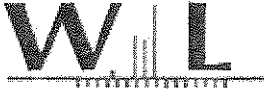
Date Received: 03/18/08 09:15  
Date Reported: 03/25/08 17:05

JPL87-008 8031803-11 (Water)

Date Sampled: 01/29/08 09:01

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.1	0.45	ug/l	2.0	1	EPA 314.0	W8C0994	03/24/08	03/24/08	mac	



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 Industry, CA 91745  
 Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8031803 Project ID: Laucks Testing	Date Received: 03/18/08 09:15 Date Reported: 03/25/08 17:05
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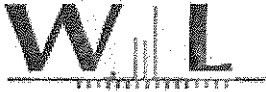
JPL87-009 8031803-12 (Water)

Date Sampled: 01/29/08 08:20

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0994	03/24/08	03/24/08	mac	





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 Industry, CA 91745  
 Phone 626.336.2139 Fax 626.336.2634

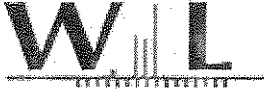
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8031803 Project ID: Laucks Testing	Date Received: 03/18/08 09:15 Date Reported: 03/25/08 17:05
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EPTM21-001 8031803-13 (Water)

Date Sampled: 02/26/08 15:15

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	270	4.5	ug/l	20	10	EPA 314.0	W8C0994	03/24/08	03/25/08	mac	



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Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

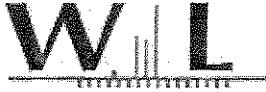
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8031803 Project ID: Laucks Testing	Date Received: 03/18/08 09:15 Date Reported: 03/25/08 17:05
--	--	--

EPTM21-003 8031803-14 (Water)

Date Sampled: 02/26/08 15:45

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	260	4.5	ug/l	20	10	EPA 314.0	W8C0994	03/24/08	03/25/08	mac	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8031803 Project ID: Laucks Testing	Date Received: 03/18/08 09:15 Date Reported: 03/25/08 17:05
--	--	--

EPTM21-004 8031803-15 (Water)

Date Sampled: 02/26/08 15:45

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	260	4.5	ug/l	20	10	EPA 314.0	W8C0994	03/24/08	03/25/08	mac	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8031803  
Project ID: Laucks Testing

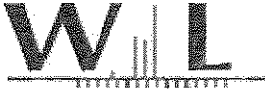
Date Received: 03/18/08 09:15  
Date Reported: 03/25/08 17:05

EPTM21-008 8031803-16 (Water)

Date Sampled: 02/26/08 14:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	430	4.5	ug/l	20	10	EPA 314.0	W8C0994	03/24/08	03/25/08	mac	



Weck Laboratories, Inc.  
 14859 E. Clark Ave.  
 Industry, CA 91745  
 Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
 940 South Harney Street  
 Seattle WA, 98108

Report ID: 8031803  
 Project ID: Laucks Testing

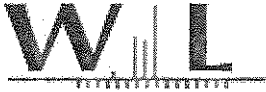
Date Received: 03/18/08 09:15  
 Date Reported: 03/25/08 17:05

EPTM21-009 8031803-17 (Water)

Date Sampled: 02/26/08 15:00

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.1	0.45	ug/l	2.0	1	EPA 314.0	W8C0994	03/24/08	03/24/08	mac	



Weck Laboratories, Inc.  
 14859 E. Clark Ave.  
 Industry, CA 91745  
 Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8031803 Project ID: Laucks Testing	Date Received: 03/18/08 09:15 Date Reported: 03/25/08 17:05
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EPTM21-010 8031803-18 (Water)

Date Sampled: 02/26/08 15:00

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	50	0.45	ug/l	2.0	1	EPA 314.0	W8C0994	03/24/08	03/24/08	mac	

**PACE ANALYTICAL SERVICES, INC.**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL88**

**March 5, 2008**

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL88  
Date of Report: March 5, 2008

**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>Pace Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-20-5	JPL88-001	VOA/MET/PER
MW-20-4	JPL88-002	VOA/MET/PER
MW-20-3	JPL88-003	VOA/MET/PER
MW-20-2	JPL88-004	VOA/MET/PER
MW-20-1	JPL88-005	VOA/MET/PER
EB-4-01/30/08	JPL88-006	VOA/MET/PER
TB-4-01/30/08	JPL88-007	VOA

**Analytical Request Key:**

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

Summary of NELAC test accreditation

<b>Determination</b>	<b>NELAC approved</b>
TurMet for 200.7/200.8 TurMet	NO
200.8 Total Cr	YES
314.0 Perchlorate	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.  
One of three volatiles bottles submitted for MW-20-3 contained bubbles of less than 1/4 inch in size.  
Two of three volatiles bottles submitted for MW-20-2 contained bubbles of less than 1/4 inch in size.  
Two of six volatiles bottles submitted for MW-20-1 contained bubbles of less than 1/4 inch in size. Two  
of two volatiles bottles submitted for TB-4-01/30/08 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.

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:

Quality Control Analyses:

Due to an instrument error, no data was produced for the MS/MSD analyses on sample MW-20-1. Because the remaining sample volume was only enough for an MS analysis, no MSD analysis could be performed. All analytes in the MS analysis recovered within the control limits.

All other 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 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.

Pace Analytical Services, Inc.  
940 S. Harney  
Seattle, WA 98108

**SPECIFIC REMARKS ON INORGANIC ANALYSES:**

Holding Time Compliance:

Pace 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 Comment.

**Pace Analytical Services, Inc.**

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.
- ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

**Pace Analytical Services, Inc.**  
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.
  - Z Denotes data deemed unusable by the analyst.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. 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

3/6/08  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

3/6/08  
(DATE)

*HOW TO CONTACT US:*

All Pace Analytical Services, Inc. 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, Pace 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.

**Pace Analytical Services, Inc.**  
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 200.7/2008 TurMet
WD JPL88-001	01/31/2008 09:30 AM	01/30/2008 08:07 AM	MW-20-5	IN	IN	IN	IN
WD JPL88-002	01/31/2008 09:30 AM	01/30/2008 08:57 AM	MW-20-4	IN	IN	IN	IN
WD JPL88-003	01/31/2008 09:30 AM	01/30/2008 09:32 AM	MW-20-3	IN	IN	IN	IN
WD JPL88-004	01/31/2008 09:30 AM	01/30/2008 10:05 AM	MW-20-2	IN	IN	IN	IN
WD *JPL88-005	01/31/2008 09:30 AM	01/30/2008 10:45 AM	MW-20-1	IN	IN	IN	IN
WD JPL88-006	01/31/2008 09:30 AM	01/30/2008 10:30 AM	EB-4- 01/30/08	IN	IN	IN	IN
WD JPL88-007	01/31/2008 09:30 AM	01/30/2008 12:00 AM	TB-4- 01/30/08			IN	

Approved By:  
Notes:

On:

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

**LEGENDS:** -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged  
Matrices: Water=WD

FORM LTI-PM-8.0

6095

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

COMPANY: BATTLE  
 ADDRESS: 3920 OLD TOWN AVE C-205  
SAV DIEGO, CA 92110  
 ATTENTION: DAVID COOPER  
 PROJECT NAME: SPL GW MDL 1808  
 PROJECT CONTACT: DAVID COOPER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/P.O. NO.: 6436090/24319

CHAIN OF CUSTODY RECORD  
 44222

SDG # JP L 88  
 PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_

SUBMITTED AT: \_\_\_\_\_

TESTS TO PERFORM

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS
	<u>LOC (524.0)</u>
	<u>TOTAL CR (200.8)</u>
	<u>CLAY (314.0)</u>
<u>2</u>	

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

LAB SAM	SAMPLE ID / LOCATION	DATE	TIME											
1	MW-20-5	1/30/08	0807	5	X	X	X							
2	MW-20-4		0857		X	X	X							
3	MW-20-3		0932		X	X	X							
4	MW-20-2		1005		X	X	X							
5	MW-20-1		1045	10	X	X	X							
6	EB-4-01/30/08		1030	5	X	X	X							
7	TR-4-01/30/08			2	X									

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.

- A. A standard turnaround time is assumed unless otherwise marked.
1. USE ONE LINE PER SAMPLE.
  2. BE SPECIFIC IN TEST REQUESTS.
  3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

INSTRUCTIONS

NAME: BATTLE  
 ADDRESS: 505 HINCK 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 (50% SUR)

OTHER: \_\_\_\_\_

TEMP: \_\_\_\_\_

CUSTODY SEAL:  Y  N  N/A

RELINQUISHED BY (SIGN AND PRINT)

DATE

RECEIVED BY (SIGN AND PRINT)

DATE

Charles Boardman 01/30/08

Klein Kristin Klein

1.31.08 0930

**Laucks**  
 Testing Laboratories, Inc.  
 940 South Harbor St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063  
 1106 Ledwith Ave., Yakima, WA 98902 (509) 248-4695 FAX 452-1265



**FORM SUMMARY**

SDG # JPL88

Volatiles Analysis

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-5

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL88

Run Sequence: R025729

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL88-001

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

Lab File ID: Y0207016.D

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

Date Collected: 01/30/2008

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

Date/Time Analyzed: 02/07/2008 13:00

GC Column: DB-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:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-5

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL88

Run Sequence: R025729

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL88-001

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

Lab File ID: Y0207016.D

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

Date Collected: 01/30/2008

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

Date/Time Analyzed: 02/07/2008 13:00

GC Column: DB-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:	
		<u>ug/L</u>	<u>Q</u>
108-88-3	Toluene	0.50	U
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	0.26	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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-5

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL88

Run Sequence: R025729

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL88-001

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

Lab File ID: Y0207016.D

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

Date Collected: 01/30/2008

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

Date/Time Analyzed: 02/07/2008 13:00

GC Column: DB-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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-20-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-002  
 Lab File ID: Y0207017.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 13:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-002  
 Lab File ID: Y0207017.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 13:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-002  
 Lab File ID: Y0207017.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 13:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-20-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-003  
 Lab File ID: Y0207018.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 13:50  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-003  
 Lab File ID: Y0207018.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 13:50  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.37	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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-003  
 Lab File ID: Y0207018.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 13:50  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-20-2

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL88

Run Sequence: R025729

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL88-004

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

Lab File ID: Y0207019.D

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

Date Collected: 01/30/2008

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

Date/Time Analyzed: 02/07/2008 14:15

GC Column: DB-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	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	0.29	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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-004  
 Lab File ID: Y0207019.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 14:15  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-004  
 Lab File ID: Y0207019.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 14:15  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-20-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-005  
 Lab File ID: Y0207020.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 14:39  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-1

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL88

Run Sequence: R025729

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL88-005

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

Lab File ID: Y0207020.D

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

Date Collected: 01/30/2008

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

Date/Time Analyzed: 02/07/2008 14:39

GC Column: DB-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:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-005  
 Lab File ID: Y0207020.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 14:39  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

EB-4-01/30/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-006  
 Lab File ID: Y0207021.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 15:04  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-4-01/30/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-006  
 Lab File ID: Y0207021.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 15:04  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-4-01/30/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL88

Run Sequence: R025729

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL88-006

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

Lab File ID: Y0207021.D

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

Date Collected: 01/30/2008

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

Date/Time Analyzed: 02/07/2008 15:04

GC Column: DB-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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-4-01/30/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL88

Run Sequence: R025729

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL88-007

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

Lab File ID: Y0207014.D

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

Date Collected: 01/30/2008

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

Date/Time Analyzed: 02/07/2008 12:11

GC Column: DB-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:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-4-01/30/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-007  
 Lab File ID: Y0207014.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 12:11  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-4-01/30/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL88  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-007  
 Lab File ID: Y0207014.D  
 Date Collected: 01/30/2008  
 Date/Time Analyzed: 02/07/2008 12:11  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-20-5

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL88  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-001  
 Lab File ID: Y0207016.D  
 Date Collected: 01/30/2008  
 Date Analyzed: 02/07/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-20-4

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL88

Run Sequence: R025729

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL88-002

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

Lab File ID: Y0207017.D

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

Date Collected: 01/30/2008

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

Date Analyzed: 02/07/2008

GC Column: DB-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

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.

MW-20-3

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL88  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-003  
 Lab File ID: Y0207018.D  
 Date Collected: 01/30/2008  
 Date Analyzed: 02/07/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
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29					
30					

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-20-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL88  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-004  
 Lab File ID: Y0207019.D  
 Date Collected: 01/30/2008  
 Date Analyzed: 02/07/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
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29				
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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.: JPL88  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-005  
 Lab File ID: Y0207020.D  
 Date Collected: 01/30/2008  
 Date Analyzed: 02/07/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
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28				
29				
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EB-4-01/30/08

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL88  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-006  
 Lab File ID: Y0207021.D  
 Date Collected: 01/30/2008  
 Date Analyzed: 02/07/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
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29				
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Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-4-01/30/08

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL88  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL88-007  
 Lab File ID: Y0207014.D  
 Date Collected: 01/30/2008  
 Date Analyzed: 02/07/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
ug/L

01	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
02					
03					
04					
05					
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29					
30					

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B020708MVOWY1

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL88

Run Sequence: R025729

Matrix: (SOIL/WATER) Water

Lab Sample ID: B020708MVOWY1

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

Lab File ID: Y0207013.D

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

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

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

Date Analyzed: 02/07/2008

GC Column: DB-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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
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28				
29				
30				

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B020808MVOWY1

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL88

Run Sequence: R025745

Matrix: (SOIL/WATER) Water

Lab Sample ID: B020808MVOWY1

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

Lab File ID: Y0208015.D

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

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

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

Date Analyzed: 02/08/2008

GC Column: DB-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

	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**

**JPL88**

**Metals Data**



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-5

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL88

Matrix (soil/water): Water

Lab Sample ID: JPL88-001

Level (low/med): LOW

Date Received: 01/31/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	4.83			M	R025605

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

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

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

Date Printed: 2/4/2008 10:20

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-4

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL88

Matrix (soil/water): Water

Lab Sample ID: JPL88-002

Level (low/med): LOW

Date Received: 01/31/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	4.72			M	R025605

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

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

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

Date Printed: 2/4/2008 10:20

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL88

Matrix (soil/water): Water

Lab Sample ID: JPL88-003

Level (low/med): LOW

Date Received: 01/31/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	7.68			M	R025605

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

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

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

Date Printed: 2/4/2008 10:20

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL88

Matrix (soil/water): Water

Lab Sample ID: JPL88-004

Level (low/med): LOW

Date Received: 01/31/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	7.41			M	R025605

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

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

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

Date Printed: 2/4/2008 10:20

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-20-1

Lab Name: Laucks LaboratoriesContract: JPL Groundwater MonitorinLab Code: LAUCKSSDG No.: JPL88Matrix (soil/water): WaterLab Sample ID: JPL88-005Level (low/med): LOWDate Received: 01/31/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	6.75			M	R025605

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

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

Comment \_\_\_\_\_

\_\_\_\_\_

Date Printed: 2/4/2008 10:20

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-4-01/30/08

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL88

Matrix (soil/water): Water

Lab Sample ID: JPL88-006

Level (low/med): LOW

Date Received: 01/31/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U		M	R025605

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

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

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

Date Printed: 2/4/2008 10:20

**Miscellaneous Inorganic Data**

**JPL88**

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL88  
Sample Number: MW-20-5 Date/Time Collected: 01/30/2008 08:07  
Lab Sample ID: JPL88-001 Date/Time Received: 01/31/2008 09:30  
Method/Qbatch\*: E314.0/27339 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	02/26/2008	02/27/2008	R026180



Pace Analytical Services, Inc.

Final Results

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL88  
**Sample Number:** MW-20-4 **Date/Time Collected:** 01/30/2008 08:57  
**Lab Sample ID:** JPL88-002 **Date/Time Received:** 01/31/2008 09:30  
**Method/Qbatch\*:** E314.0/27339 **Unit:** ug/L  
**Instrument:** Ion Chromatograph (2) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	2.0	U	2.0	0.28	02/26/2008	02/27/2008	R026180

\*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL88  
Sample Number: MW-20-3 Date/Time Collected: 01/30/2008 09:32  
Lab Sample ID: JPL88-003 Date/Time Received: 01/31/2008 09:30  
Method/Qbatch\*: E314.0/27339 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	3	3.0	U	3.0	0.42	02/26/2008	02/27/2008	R026180

\*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL88  
Sample Number: MW-20-2 Date/Time Collected: 01/30/2008 10:05  
Lab Sample ID: JPL88-004 Date/Time Received: 01/31/2008 09:30  
Method/Qbatch\*: E314.0/27339 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	3	3.6		3.0	0.42	02/26/2008	02/27/2008	R026180

\*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL88  
Sample Number: MW-20-1 Date/Time Collected: 01/30/2008 10:45  
Lab Sample ID: JPL88-005 Date/Time Received: 01/31/2008 09:30  
Method/Qbatch\*: E314.0/27339 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	3	3.0	U	3.0	0.42	02/26/2008	02/27/2008	R026180

\*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL88  
Sample Number: EB-4-01/30/08 Date/Time Collected: 01/30/2008 10:30  
Lab Sample ID: JPL88-006 Date/Time Received: 01/31/2008 09:30  
Method/Qbatch\*: E314.0/27339 Unit: ug/L  
Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	02/26/2008	02/27/2008	R026180

\*QBatch=QC/Preparation Batch

**PACE ANALYTICAL SERVICES, INC.**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL89**

**March 12, 2008**

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL89  
Date of Report: March 12, 2008

**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>Pace Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-18-5	JPL89-001	VOA/PER
MW-18-4	JPL89-002	VOA/MET/PER
MW-18-3	JPL89-003	VOA/MET/PER
MW-18-2	JPL89-004	VOA/MET/PER
MW-17-4	JPL89-005	VOA/MET/PER
MW-17-3	JPL89-006	VOA/MET/PER
MW-17-2	JPL89-007	VOA/MET/PER
EB-5-01/31/08	JPL89-008	VOA/MET/PER
TB-5-01/31/08	JPL89-009	VOA

**Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0) Subcontracted to Weck Laboratories

Summary of NELAC test accreditation

<b>Determination</b>	<b>NELAC approved</b>
TurMet for 200.7/200.8 TurMet	NO
200.8 Total Cr	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples. One of three volatiles bottles submitted for MW-18-4 contained bubbles of less than 1/4 inch in size. Two of six volatiles bottles submitted for MW-17-2 contained bubbles of less than 1/4 inch in size. Two of two volatiles bottles submitted for TB-5-01/31/08 contained bubbles of less than 1/4 inch in size. Sample MW-17-2, the two 500mL poly bottles that were labeled nitric acid preserved were not preserved and the bottles that were labeled as unpreserved were nitric acid preserved.

**Pace Analytical Services, Inc.**  
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:**

Calibration Standards:

In the CCV performed on 02/11/2008 the percent difference values for hexachlorobutadiene and 1,2,3-trichlorobenzene exceeded 20% 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.

Method Blank

Analysis of the method blank performed on 02/08/2008 resulted in the detection of hexachlorobutadiene less than the reporting limit but above one-half the reporting limit. Because this analyte was not detected in any associated samples, 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.



Pace Analytical Services, Inc.  
940 S. Harney  
Seattle, WA 98108

**SPECIFIC REMARKS ON INORGANIC ANALYSES:**

Holding Time Compliance:

Pace 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:

Chromium was present in the batch preparation blank, B020508ICPMSW03, at a level greater than the CRDL. The client action level for chromium is 10 ug/L. The concentration of chromium in the batch preparation blank was 1.24 ug/L. Sample MW-17-3 contained a concentration of chromium that was less than 1/2 the client action level and could be subject to a slightly high bias. Data have been reported as is. No further corrective action was taken. Data have not been flagged for this event.

**Pace Analytical Services, Inc.**  
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.
  - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

**Pace Analytical Services, Inc.**

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.

Z Denotes data deemed unusable by the analyst.

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

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. 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

3/12/08  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

3/12/08  
(DATE)

*HOW TO CONTACT US:*

All Pace Analytical Services, Inc. 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, Pace 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.

**Pace Analytical Services, Inc.**  
940 S. Harney  
Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies

**LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG**

Sample ID Mx (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
WD JPL89-001	02/01/2008 08:50 AM	01/31/2008 10:50 AM	MW-18-5		IN	IN	
WD JPL89-002	02/01/2008 08:50 AM	01/31/2008 11:38 AM	MW-18-4	IN	IN	IN	IN
WD JPL89-003	02/01/2008 08:50 AM	01/31/2008 12:20 PM	MW-18-3	IN	IN	IN	IN
WD JPL89-004	02/01/2008 08:50 AM	01/31/2008 12:51 PM	MW-18-2	IN	IN	IN	IN
WD JPL89-005	02/01/2008 08:50 AM	01/31/2008 08:11 AM	MW-17-4	IN	IN	IN	IN
WD JPL89-006	02/01/2008 08:50 AM	01/31/2008 08:54 AM	MW-17-3	IN	IN	IN	IN
WD *JPL89-007	02/01/2008 08:50 AM	01/31/2008 09:20 AM	MW-17-2	IN	IN	IN	IN
WD JPL89-008	02/01/2008 08:50 AM	01/31/2008 09:11 AM	EB-5- 01/31/08	IN	IN	IN	IN
WD JPL89-009	02/01/2008 08:50 AM	01/31/2008 12:00 AM	TB-5- 01/31/08			IN	

Approved By:  
Notes:

On:

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

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

Matrices: Water=WD

FORM LTL-PM-8.0

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

COMPANY: BATTLE  
 ADDRESS: 3990 OLD TOWN AVE, C-205  
SAV DICKS, CA 92110  
 ATTENTION: DAVID CONNER  
 PROJECT NAME: SPL GW MON 1008  
 PROJECT CONTACT: DAVID CONNER  
 TELEPHONE: 619-721-7311 FAX: \_\_\_\_\_  
 JOB/PO. NO.: 6486090/214319

CHAIN OF CUSTODY RECORD SDG # \_\_\_\_\_ PAGE 1 OF 1

WORK ORDER ID# 5PL899 SUBMITTED AT: 10th 6/14  
 940 South Haring St, Seattle WA 98108 (206) 707-5000 FAX 707-5005  
 1110 Eastwind Ave, Yakima WA 98902 (509) 248-4005 FAX 452-1265

TESTS TO PERFORM

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS
<u>VOL (524.2)</u>	<u>5</u>
<u>TOTAL CR (200.8)</u>	<u>5</u>
<u>CLAY - (214.0)</u>	<u>5</u>

LAB#	SAMPLE ID / LOCATION	DATE	TIME	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1	MU-18-5	01/31/08	1050	4	X	
2	MU-18-4		1138	5	X X X X	
3	MU-18-3		1220	X	X X X	
4	MU-18-2		1251	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.

NAME: BATTLE ADDRESS: 505 BUNKS AVE  
 ATTN: GERALD THOMPSON CITY, STATE, ZIP: COLUMBUS OH 43201

RELINQUISHED BY (SIGN AND PRINT): [Signature] DATE: 01/31/08 TIME: 1330  
 RECEIVED BY (SIGN AND PRINT): [Signature] DATE: 01/10/08 TIME: 850

\* 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

Finance Charges and/or Collection Fees may be applied to delinquent accounts.

FINAL REPORT COPY



COMPANY: BATTLE  
 ADDRESS: 3990 OLD TOWN AVE. C-205  
SAVANNAH, GA 31110  
 ATTENTION: DAVID COVER  
 PROJECT NAME: JPL GW MW 1808  
 PROJECT CONTACT: DAVID COVER  
 TELEPHONE: 679-726-7311 FAX: \_\_\_\_\_  
 JOB/P.O. NO.: 6486090 / 214319

CHAIN OF CUSTODY RECORD

43100

PAGE 1 OF 1

SDG #

WORK ORDER ID# JPL89 LSH W14 SUBMITTED AT: 2/11/08 LSH

TESTS TO PERFORM

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
	<u>3</u>	<u>2</u>
	<u>5</u>	
	<u>5</u>	
	<u>5</u>	
	<u>10</u>	
	<u>5</u>	
	<u>2</u>	

LAB SA#	SAMPLE ID / LOCATION	DATE	TIME
5	MW-17-4	01/31/08	0811
6	MW-17-3		0854
7	MW-17-2		0920
8	EB-5-01/31/08		0911
9	TB-5-01/31/08		

LAB SA#	SAMPLE ID / LOCATION	DATE	TIME	NO. OF CONTAINERS	MATRIX	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
5	MW-17-4	01/31/08	0811	5	W		
6	MW-17-3		0854	5	X		
7	MW-17-2		0920	10	X		MS/MSD
8	EB-5-01/31/08		0911	5	X		EQUIPMENT BLANK
9	TB-5-01/31/08			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.

RECEIVED BY (SIGN AND PRINT): Richard Frank DATE/TIME: 2/11/08 8:50

RECEIVED BY (SIGN AND PRINT): Richard Frank DATE/TIME: 2/11/08 8:50

NAME: BATTLE ADDRESS: 505 KINGS AVE.  
 ATTN: DAVID COVER CITY, STATE, ZIP: COLUMBUS, GA 31901

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





**FORMS SUMMARY**

SDG JPL89

VOLATILES ANALYSIS

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-001  
 Lab File ID: B0208020.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 14:54  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-001  
 Lab File ID: B0208020.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 14:54  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-001  
 Lab File ID: B0208020.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 14:54  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-18-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-002  
 Lab File ID: B0208021.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 15:21  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	10	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-4

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL89

Run Sequence: R025746

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL89-002

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0208021.D

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

Date Collected: 01/31/2008

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

Date/Time Analyzed: 02/08/2008 15:21

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: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-002  
 Lab File ID: B0208021.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 15:21  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-18-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-003  
 Lab File ID: B0208022.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 15:48  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <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	1.8	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	13	
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



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-003  
 Lab File ID: B0208022.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 15:48  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-003  
 Lab File ID: B0208022.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 15:48  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-18-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-004  
 Lab File ID: B0208023.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 16:14  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-004  
 Lab File ID: B0208023.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 16:14  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-004  
 Lab File ID: B0208023.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 16:14  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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	Napthalene	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-17-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-005  
 Lab File ID: B0208024.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 16:41  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
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	0.77	
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-005  
 Lab File ID: B0208024.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 16:41  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-005  
 Lab File ID: B0208024.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 16:41  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-17-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-006  
 Lab File ID: B0208025.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 17:08  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.71	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	1.5	
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	0.97	
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-006  
 Lab File ID: B0208025.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 17:08  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.34	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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-006  
 Lab File ID: B0208025.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 17:08  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-17-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-007  
 Lab File ID: B0208026.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 17:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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	0.33	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	0.57	
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-007  
 Lab File ID: B0208026.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 17:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.78	
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-007  
 Lab File ID: B0208026.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 17:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

EB-5-01/31/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-008  
 Lab File ID: B0208012.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 11:19  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-5-01/31/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-008  
 Lab File ID: B0208012.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 11:19  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-5-01/31/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL89

Run Sequence: R025746

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL89-008

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0208012.D

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

Date Collected: 01/31/2008

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

Date/Time Analyzed: 02/08/2008 11:19

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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-5-01/31/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL89

Run Sequence: R025746

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL89-009

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0208011.D

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

Date Collected: 01/31/2008

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

Date/Time Analyzed: 02/08/2008 10:52

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: <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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-5-01/31/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL89  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-009  
 Lab File ID: B0208011.D  
 Date Collected: 01/31/2008  
 Date/Time Analyzed: 02/08/2008 10:52  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-5-01/31/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL89

Run Sequence: R025746

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL89-009

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0208011.D

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

Date Collected: 01/31/2008

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

Date/Time Analyzed: 02/08/2008 10:52

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:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-18-5

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL89

Run Sequence: R025746

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL89-001

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0208020.D

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

Date Collected: 01/31/2008

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

Date Analyzed: 02/08/2008

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
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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.: JPL89  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-002  
 Lab File ID: B0208021.D  
 Date Collected: 01/31/2008  
 Date Analyzed: 02/08/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
ug/L

01	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
02					
03					
04					
05					
06					
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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.: JPL89

Run Sequence: R025746

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL89-003

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0208022.D

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

Date Collected: 01/31/2008

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

Date Analyzed: 02/08/2008

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

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.

MW-18-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL89  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-004  
 Lab File ID: B0208023.D  
 Date Collected: 01/31/2008  
 Date Analyzed: 02/08/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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.

MW-17-4

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL89  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-005  
 Lab File ID: B0208024.D  
 Date Collected: 01/31/2008  
 Date Analyzed: 02/08/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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.

MW-17-3

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL89

Run Sequence: R025746

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL89-006

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0208025.D

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

Date Collected: 01/31/2008

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

Date Analyzed: 02/08/2008

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
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29					
30					

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-17-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL89  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-007  
 Lab File ID: B0208026.D  
 Date Collected: 01/31/2008  
 Date Analyzed: 02/08/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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.

EB-5-01/31/08

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL89  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: JPL89-008  
 Lab File ID: B0208012.D  
 Date Collected: 01/31/2008  
 Date Analyzed: 02/08/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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.

TB-5-01/31/08

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL89

Run Sequence: R025746

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL89-009

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0208011.D

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

Date Collected: 01/31/2008

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

Date Analyzed: 02/08/2008

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
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29					
30					

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B020808MVOWB1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL89  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025746  
 Lab Sample ID: B020808MVOWB1  
 Lab File ID: B0208008.D  
 Date Collected: \_\_\_\_\_  
 Date Analyzed: 02/08/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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**

**JPL89**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-4

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-002

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.62			M	R025772

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

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

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

Date Printed: 2/11/2008 9:26



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-003

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	12.9			M	R025772

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

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

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

Date Printed: 2/11/2008 9:26

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-004

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.11			M	R025772

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

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

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

Date Printed: 2/11/2008 9:26

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-17-4

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-005

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	5.40			M	R025772

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

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

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

Date Printed: 2/11/2008 9:26

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-17-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-006

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	3.20			M	R025772

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

Color After: Colorless Clarity After: Clear 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.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-007

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	10.4			M	R025772

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

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

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

Date Printed: 2/11/2008 9:26

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-5-01/31/08

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-008

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U		M	R025772

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

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

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

Date Printed: 2/11/2008 9:26

**Perchlorate Data**  
**Subcontracted to Weck Laboratories**

## OA/QC Data Package

### EPA Method 314 – Perchlorate

Lab ID number: 8022735 (01-14,15-20,22-24,26,27,32-34)

#### 1. Case Narrative

The samples were received on ice and they were in good condition. The temperature upon receipt at the laboratory was 2.3°C. Due to autosampler malfunction, samples 8022735-01 thru -08 (Weck Lab IDs) were analyzed one day past hold time. All other samples were completed within holding time. Also, Weck Lab IDs did not numerically correspond directly to Client's sample IDs, so samples -01 thru -08 were not run in order. All QA/QC determinations were within acceptance ranges.

The following acronyms are used in this data package:

IPC: Instrument Performance Check, is a calibration check standard prepared in a matrix of high conductivity. It defines the highest background that a sample can have to be analyzed directly; samples with higher backgrounds need to be diluted.

IPC: Instrument Performance Check prepared with high conductivity matrix (20 ppb).

LRB: Laboratory Reagent Blank or Method Blank.

CCV: Continuing Calibration Check Standard at low-level (2 ppb) and mid-level (20 ppb or 40 ppb).

Note: CCVs start with 2 ppb, then alternate between 20 and 40 ppb through the batch.

#### 2. QC Summaries

See Quality Control Report

#### 3. Sample Data

- 3.1 Analytical results summary: see Certificate of Analysis.
- 3.2 Chromatograms, quantitation reports and injection log for samples and QC runs for the batch: See Appendix 1.
- 3.3 Chain of custody record: A copy is included with the Certificate of Analysis.
- 3.4 Copies of bench sheets and secondary review checklist: Appendix 2.

#### 4. Calibration Data

- 4.1 Initial Calibration summary and chromatograms: See Appendix 3.
- 4.2 Continuing calibration summary and chromatograms: See Appendix 1.



5. Raw Data

- 5.1 Chromatograms and quantitation for MS/MSD and LCS: See Appendix 1.
- 5.2 Bench sheets: See Appendix 2.

6. Standards Preparation Records

- 6.1 See Appendix 4 for copies of standards and solutions preparation



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: Pace Analytical Address: 940 S. Havens St. Seattle, WA 98108 Email To: kavay@paceanalytical.com Phone: _____ Fax: _____ Requested Due Date/TAT: _____		<b>Section B</b> Required Project Information: Report To: Kara Godineaux Copy To: _____ Purchase Order No.: _____ Project Name: SPL/EPDM Project Number: _____		<b>Section C</b> Invoice Information: Attention: Kara Godineaux Company Name: Pace Analytical Address: _____ Pace Quote #: _____ Reference: _____ Pace Project Manager: Kara Godineaux Pace Profile #: _____	
REGULATOR/AGENCY: _____ <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____ Site Location STATE: _____			Page: 1 of 6 1194806-4 <b>Sub PER - 4</b>		

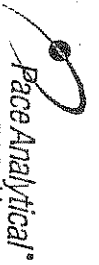
Section D Required Client Information	Matrix Codes MATRIX / CODE	MATERIAL CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analytes/Filled (Y/N)	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
				DATE	TIME							
SPL 89-005	(A-Z, 0-9 / -)			01/31	08:11		1		314.0 Perchlorate			MW-17-4
SPL 89-006				01/31	08:54		1					MW-17-3
SPL 89-008				01/31	09:11		1					EB-5-01/31/08
SPL 89-007				01/31	09:20		1					MW-17-2
SPL 89-001				01/31	10:50		1					MW-18-5
SPL 89-002				01/31	11:38		1					MW-18-4
SPL 89-003				01/31	12:20		1					MW-18-3
SPL 89-004				01/31	12:51		1					MW-18-2
SPL 90-001				02/01	09:01		1					MW-19-5
SPL 90-002				02/01	09:21		1					MW-19-4
SPL 90-003				02/01	09:45		1					MW-19-3
SPL 90-004				02/01	09:57		1					MW-19-2

ADDITIONAL COMMENTS: Please do MS/MSD on Samples: SPL 89-007	RELINQUISHED BY / AFFILIATION: [Signature] / Pace	DATE: 02-26-08 TIME:	ACCEPTED BY / AFFILIATION: [Signature]	DATE: 2/26/08 TIME: 9:50	SAMPLE CONDITIONS: Temp In °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
--	--	-------------------------	---	-----------------------------	--

ORIGINAL

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_  
 PRINT Name of SAMPLER: \_\_\_\_\_  
 SIGNATURE of SAMPLER: \_\_\_\_\_  
 DATE Signed (MM/DD/YY): \_\_\_\_\_

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to take charge of 1.5% surcharge for any invoices and void within an hour.



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A** Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: Pace Analytical Report To: Kara Godineaux Attention: Kara Godineaux  
 Address: 940 S. Harney St. Copy To: Kara Godineaux Company Name: Pace Analytical  
 Email To: Kara@paceanalytical.com Purchase Order No.: JPL/LEPTM Address: Pace Analytical  
 Phone: 760-225-1108 Project Name: JPL/LEPTM Page Date: 02-26-08  
 Requested Due Date/AT: JPL/LEPTM Project Number: JPL/LEPTM Page Project Manager: Kara Godineaux  
 Reference: Pace Profile #:

Page: 2 of 4  
 119480  
 SUBMITTER - 5

Section D Required Client Information	Matrix Codes MATRIX 1 CODE	Matrix Codes MATRIX 2 CODE	MATERIAL CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
					COMPOSITE START	COMPOSITE END/GRAB						
JPL90-006					02/01	10:20		1		314.0 Perchlorate		
JPL90-005					02/01	10:25		1				
JPL90-008					02/04	07:47		1				
JPL90-009					02/04	08:09		1				
JPL90-010					02/04	08:34		1				
JPL90-011					02/04	09:05		1				
JPL90-015					02/04	09:26		1				
JPL90-012					02/04	09:40		1				
JPL91-007					02/05	08:00		1				
JPL91-004					02/05	07:42		1				
JPL91-005					02/05	08:16		1				
JPL91-008					02/05	08:40		1				

ADDITIONAL COMMENTS: Please do MS/MSD on  
 RELINQUISHED BY: Pace DATE: 02-26-08 TIME: 2:21  
 ACCEPTED BY: Sam Godineux DATE: 2/27/08 TIME: 9:50

ORIGINAL

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_  
 PRINT NAME OF SAMPLER: \_\_\_\_\_  
 SIGNATURE OF SAMPLER: \_\_\_\_\_  
 DATE SIGNED (MM/DD/YY): \_\_\_\_\_

Temp in °C \_\_\_\_\_  
 Received on ice (Y/N) \_\_\_\_\_  
 Custody Sealed Cooler (Y/N) \_\_\_\_\_  
 Samples Intact (Y/N) \_\_\_\_\_

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Requested Client Information: Company: <u>Pace Analytical</u> Address: <u>940 S. Harvey St.</u> City: <u>Seattle, WA</u> Zip: <u>98108</u> Phone: <u>Karyn @ laucks labs.com</u> Fax: _____ Requested Due Date/TAT: _____		<b>Section B</b> Requested Project Information: Report To: <u>Kara Godineaux</u> Copy To: _____ Purchase Order No.: _____ Project Name: <u>JPL/EPTM</u> Project Number: _____		<b>Section C</b> Invoice Information: Attention: <u>Kara Godineaux</u> Company Name: <u>Pace Analytical</u> Address: _____ City: _____ State: _____ Zip: _____ Reference: _____ Pace Project Manager: <u>Kara Godineaux</u> Pace Profile #: _____	
<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____			<b>Site Location</b> STATE: _____		

Section D Requested Client Information	Matrix Codes MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis: Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab ID.
			COMPOSITE START	COMPOSITE END/GRAB						
JPL91-006			02/05	08:53		1				MW-4-1
JPL91-001			02/05	10:50		1				MW-3-4
JPL92-JPL91-002			02/05	11:22		1				MW-3-3
JPL91-003			02/05	11:49		1				MW-3-2
EPTM18-001			02/05	13:50		1				GACIN
EPTM18-003			02/05	14:00		1				FBRIN
EPTM18-004			02/05	14:05		1				FBRIN DUP
EPTM18-005			02/05	14:10		1				FBRUIT
JPL92-008			02/06	00:00		1				DUPE-3-100K
JPL92-003			02/06	07:56		1				MW-25-5
JPL92-004			02/06	08:32		1				MW-25-4
JPL92-005			02/06	09:01		1				MW-25-3

ADDITIONAL COMMENTS: <u>Please do MS/MSD on samples: ND samples</u>	RELINQUISHED BY / AFFILIATION: <u>John Stutz / Pace</u>	DATE: <u>02-26-08</u>	TIME: <u>2:27C</u>	ACCEPTED BY / AFFILIATION: <u>James Imber</u>	DATE: <u>2/27/08</u>	TIME: <u>9:50</u>
--	--	--------------------------	-----------------------	--	-------------------------	----------------------

ORIGINAL

SAMPLER NAME AND SIGNATURE	DATE Signed (MM/DD/YY)
PRINT Name of SAMPLER:	
SIGNATURE of SAMPLER:	

Temp in °C \_\_\_\_\_  
 Received on Ice (Y/N) \_\_\_\_\_  
 Custody Sealed Cooler (Y/N) \_\_\_\_\_  
 Samples Intact (Y/N) \_\_\_\_\_

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

### Section A

Required Client Information:  
 Company: **PACE Analytical**  
 Address: **9405 Harnes St.**  
**Seattle WA 98108**  
 Email To: **Karag@paceanalytical.com**  
 Home: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Requested Due Date/TAT: \_\_\_\_\_

### Section B

Required Project Information:  
 Report To: **Kara Godineaux**  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: **JPL/EPTM**  
 Project Number: \_\_\_\_\_

### Section C

Invoice Information:  
 Attention: **Kara Godineaux**  
 Company Name: **Pace Analytical**  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_  
 Zip: \_\_\_\_\_  
 Reference: \_\_\_\_\_  
 Pace Project Manager: **Kara Godineaux**  
 Pace Profile #: \_\_\_\_\_

Page: **4** of **6**  
 1194808  
**SUBPER - 7**

REGULATORY AGENCY: \_\_\_\_\_  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RORA  OTHER \_\_\_\_\_  
 Site Location: \_\_\_\_\_  
 STATE: \_\_\_\_\_

Section D Required Client Information	Matrix Codes MATRIX CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis/Filtered (Y/N)		
				DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl			NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
1	JPL92-006			02/06	09:31		1								X		
2	JPL92-009			02/06	10:10		1								X		
3	JPL92-007			02/06	10:26		1								X		
4	JPL92-001			02/06	11:48		1								X		
5	JPL92-002			02/06	12:16		1								X		
6	JPL93-005			02/07	00:00		1								X		
7	JPL93-006			02/07	00:00		1								X		
8	JPL93-002			02/07	08:21		1								X		
9	JPL93-003			02/07	08:54		1								X		
10	JPL93-007			02/07	09:34		1								X		
11	JPL93-004			02/07	09:50		1								X		
12	JPL94-002			02/08	08:01		1								X		

ADDITIONAL COMMENTS: **Please do MS/USD on**  
**2 samples: JPL92-006**

REINQUISHED BY/AFFILIATION: **Cathy Stevens / Pace** DATE: **02-26-08** TIME: \_\_\_\_\_

ACCEPTED BY/AFFILIATION: **James Gomez** DATE: **2/27/08** TIME: **9:50**

SAMPLER NAME AND SIGNATURE		DATE SIGNED	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT NAME OF SAMPLER: _____		DATE SIGNED (MM/DD/YY): _____	DATE: _____	TIME: _____				
SIGNATURE OF SAMPLER: _____								

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: **Page Analytical** Address: **9410 S. Harney St. Seattle, WA 98108** Phone: **Karav @lavids labs.com** Fax: **Project Name: JPL / EPTM** Project Number: **Requested Due Date/TAT:**

Section B Required Project Information: Report To: **Kara Godineaux** Copy To: **Company Name: Page Analytical** Address: **Company Name: Kara Godineaux** Address: **Requestor: Kara Godineaux** Project Manager: **Kara Godineaux** Project Profile #:

Section C Invoice Information: Attention: **Kara Godineaux** Company Name: **Page Analytical** Address: **Requestor: Kara Godineaux** Project Manager: **Kara Godineaux** Project Profile #:

REGULATORY AGENCY:  NPDES  GROUND WATER  DRINKING WATER  UST  RCRA  OTHER

State location:  STATES:  Residual Chlorine (Y/N)

Section D Required Client Information	Matrix Codes	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)
				COMPOSITE START	COMPOSITE END/GRAB			H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	314.0 Perchlorate		
P JPL 94-002	DW			02/08	08:01		1										
JPL 94-005	WT			02/08	08:31		1										
JPL 94-006	WW			02/08	08:56	08:49	1										
JPL 94-004	P			02/08	09:09		1										
JPL 94-007	SL			02/11	08:24		1										
JPL 94-008	OL			02/11	11:25		1										
JPL 95-003	WP			02/12	00:00		1										
JPL 95-001	AR			02/12	07:06		1										
JPL 95-002	TS			02/12	11:28		1										
EPTM 19-001	OT			02/12	13:00		1										
EPTM 19-003				02/12	13:15		1										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Please do MS/MSD on samples: JPL 94-004	<i>Kara Godineaux</i> / Pace	02-26-08		<i>James Dwyer</i>	2/27/08	9:30	22°C

ORIGINAL

TEMPERATURE:  Temp in °C  Received on Ice (Y/N)  Custody Sealed Cooler (Y/N)  Samples Intact (Y/N)

DATE Signed (MM/DD/YYYY):  DATE:  TIME:



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: **Pace Analytical** Address: **940 S. Harvard St. Seattle, WA 98108** Email To: **Karyn@paceanalytical.com** Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Requested Due Date/TAT: \_\_\_\_\_

Section B Required Project Information: Report For: **Kara Godineau** Copy To: \_\_\_\_\_ Purchase Order No.: \_\_\_\_\_ Project Name: **JPL/EPTM** Project Number: \_\_\_\_\_

Section C Invoice Information: Attention: **Kara Godineau** Company Name: **Pace Analytical** Address: \_\_\_\_\_ City/State: \_\_\_\_\_ Reference: \_\_\_\_\_ Price Quote: \_\_\_\_\_ Price Project Manager: **Kara Godineau** Price Profile #: \_\_\_\_\_

Page: **6** of **6**  
**119481**  
**Sub PER - 9**

REGULATORY AGENCY: \_\_\_\_\_  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
 Site Location: \_\_\_\_\_ STATE: \_\_\_\_\_

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested/Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS
					DATE	TIME							
1	EPTM19-004	Drinking Water	DW	G	02/12	13:15		1	Unpreserved	X			
2	EPTM19-005	Water	WT	G	02/12	13:50		1	H <sub>2</sub> SO <sub>4</sub>	X			
3	JPL96-003	Waste Water	WW	G	02/13	00:00		1	HNO <sub>3</sub>	X			
4	JPL96-001	Product	P	G	02/13	08:30		1	HCl	X			
5	JPL96-002	Soil/Solid	SL	G	02/13	10:55		1	NaOH	X			
6	JPL97-001	Oil	OL	G	02/14	08:17		1	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	X			
7	EPTM20-001	Wipe	WP	G	02/20	16:00		1	Methanol	X			
8	EPTM20-003	Air	AR	G	02/20	16:30		1	Other	X			
9	EPTM20-004	Tissue	TS	G	02/20	16:30		1		X			
10	PGMW080201-001	Other	OT	G	02/08	11:00		1		X			
11										X			
12										X			

REINQUISHED BY / AFFILIATION: **Carl Saha / Pace** DATE: **02-21-08** TIME: \_\_\_\_\_  
 ACCEPTED BY / AFFILIATION: **Sumit Jindal** DATE: **2/21/08** TIME: **9:50**  
 Temp in °C: \_\_\_\_\_ Received on Ice (Y/N): \_\_\_\_\_ Custody Sealed Cooler (Y/N): \_\_\_\_\_ Samples Intact (Y/N): \_\_\_\_\_

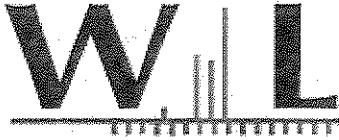
ORIGINAL

PRINT NAME of SAMPLER: \_\_\_\_\_  
 SIGNATURE of SAMPLER: \_\_\_\_\_  
 DATE Signed (MM/DD/YY): \_\_\_\_\_

Temp in °C: \_\_\_\_\_ Received on Ice (Y/N): \_\_\_\_\_ Custody Sealed Cooler (Y/N): \_\_\_\_\_ Samples Intact (Y/N): \_\_\_\_\_

F-A11 - 0-070rev 07 15-Mar-2007





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Analytical Laboratory Services - Since 1964

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info@wecklabs.com www.wecklabs.com

### CERTIFICATE OF ANALYSIS

<b>Client:</b> Pace Analytical Services 940 South Harney Street Seattle, WA 98108 Attention: Kara Godineaux  Phone: (206) 957-2422 Fax: (206) 767-5063	<b>Report Date:</b> 03/11/08 12:32 <b>Received Date:</b> 02/27/08 09:50 <b>Turn Around:</b> Normal  <b>Work Order #:</b> 8022735  <b>Client Project:</b> JPL/EPTM
--	---

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Kara Godineaux :

Enclosed are the results of analyses for samples received 02/27/08 09:50 with the Chain of Custody document. The samples were received in good condition. The samples were received at 2.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

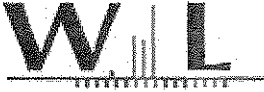
Kim G Tu

Project Manager

Page 1 of 55







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Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

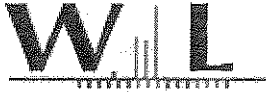
### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
JPL89-005	Client		8022735-01	Water	01/31/08 08:11
JPL89-006	Client		8022735-02	Water	01/31/08 08:54
JPL89-008	Client		8022735-03	Water	01/31/08 09:11
JPL89-007	Client		8022735-04	Water	01/31/08 09:20
JPL89-001	Client		8022735-05	Water	01/31/08 10:50
JPL89-002	Client		8022735-06	Water	01/31/08 11:38
JPL89-003	Client		8022735-07	Water	01/31/08 12:20
JPL89-004	Client		8022735-08	Water	01/31/08 12:51
JPL90-001	Client		8022735-09	Water	02/01/08 09:01
JPL90-002	Client		8022735-10	Water	02/01/08 09:21
JPL90-003	Client		8022735-11	Water	02/01/08 09:45
JPL90-004	Client		8022735-12	Water	02/01/08 09:59
JPL90-006	Client		8022735-13	Water	02/01/08 10:20
JPL90-005	Client		8022735-14	Water	02/01/08 10:25
JPL90-008	Client		8022735-15	Water	02/04/08 07:47
JPL90-009	Client		8022735-16	Water	02/04/08 08:09
JPL90-010	Client		8022735-17	Water	02/04/08 08:34
JPL90-011	Client		8022735-18	Water	02/04/08 09:05
JPL90-013	Client		8022735-19	Water	02/04/08 09:26
JPL90-012	Client		8022735-20	Water	02/04/08 09:40
JPL91-007	Client		8022735-21	Water	02/05/08 00:00
JPL91-004	Client		8022735-22	Water	02/05/08 07:42
JPL91-005	Client		8022735-23	Water	02/05/08 08:18
JPL91-008	Client		8022735-24	Water	02/05/08 08:40
JPL91-006	Client		8022735-25	Water	02/05/08 08:53
JPL91-001	Client		8022735-26	Water	02/05/08 10:50
JPL91-002	Client		8022735-27	Water	02/05/08 11:22
JPL91-003	Client		8022735-28	Water	02/05/08 11:49
EPTM18-001	Client		8022735-29	Water	02/05/08 13:50
EPTM18-003	Client		8022735-30	Water	02/05/08 14:00
EPTM18-004	Client		8022735-31	Water	02/05/08 14:05

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Kim G Tu, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**Sub-PER - 11**



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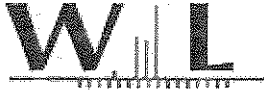
Pace Analytical Services  
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Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
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JPL92-008	Client		8022735-33	Water	02/06/08 00:00
JPL92-003	Client		8022735-34	Water	02/06/08 07:56
JPL92-004	Client		8022735-35	Water	02/06/08 08:32
JPL92-005	Client		8022735-36	Water	02/06/08 09:01
JPL92-006	Client		8022735-37	Water	02/06/08 09:31
JPL92-009	Client		8022735-38	Water	02/06/08 10:10
JPL92-007	Client		8022735-39	Water	02/06/08 10:26
JPL92-001	Client		8022735-40	Water	02/06/08 11:48
JPL92-002	Client		8022735-41	Water	02/06/08 12:16
JPL93-005	Client		8022735-42	Water	02/07/08 00:00
JPL93-006	Client		8022735-43	Water	02/07/08 00:00
JPL93-002	Client		8022735-44	Water	02/07/08 08:21
JPL93-003	Client		8022735-45	Water	02/07/08 08:54
JPL93-007	Client		8022735-46	Water	02/07/08 09:34
JPL93-004	Client		8022735-47	Water	02/07/08 09:50
JPL94-002	Client		8022735-48	Water	02/08/08 08:01



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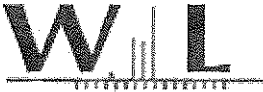
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Date Reported: 03/11/08 12:32

JPL89-005 8022735-01 (Water)

Date Sampled: 01/31/08 08:11

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	1.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04, J



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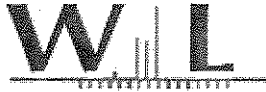
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL89-006 8022735-02 (Water)

Date Sampled: 01/31/08 08:54

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	24	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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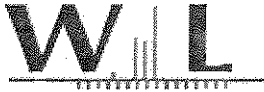
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 Date Reported: 03/11/08 12:32

JPL89-008 8022735-03 (Water)

Date Sampled: 01/31/08 09:11

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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Report ID: 8022735  
Project ID: JPL/EPTM

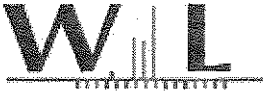
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Date Reported: 03/11/08 12:32

JPL89-007 8022735-04 (Water)

Date Sampled: 01/31/08 09:20

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	8.8	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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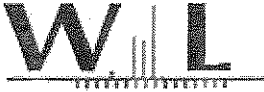
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL89-001 8022735-05 (Water)

Date Sampled: 01/31/08 10:50

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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Date Reported: 03/11/08 12:32

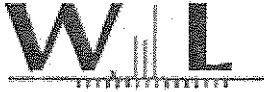
JPL89-002 8022735-06 (Water)

Date Sampled: 01/31/08 11:38

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	28	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04





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Report ID: 8022735  
Project ID: JPL/EPTM

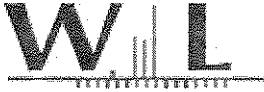
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Date Reported: 03/11/08 12:32

JPL89-003 8022735-07 (Water)

Date Sampled: 01/31/08 12:20

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	29	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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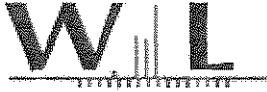
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL89-004 8022735-08 (Water)

Date Sampled: 01/31/08 12:51

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.98	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04, J



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Project ID: JPL/EPTM

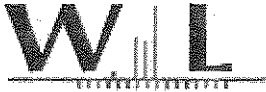
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Date Reported: 03/11/08 12:32

JPL90-001 8022735-09 (Water)

Date Sampled: 02/01/08 09:01

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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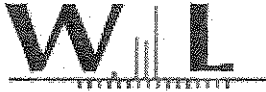
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JPL90-002 8022735-10 (Water)

Date Sampled: 02/01/08 09:21

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	1.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	J



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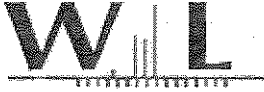
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Date Reported: 03/11/08 12:32

JPL90-003 8022735-11 (Water)

Date Sampled: 02/01/08 09:45

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	7.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

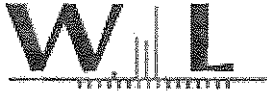
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Date Reported: 03/11/08 12:32

JPL90-004 8022735-12 (Water)

Date Sampled: 02/01/08 09:59

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

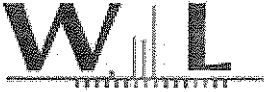
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Date Reported: 03/11/08 12:32

JPL90-006 8022735-13 (Water)

Date Sampled: 02/01/08 10:20

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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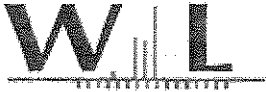
JPL90-005 8022735-14 (Water)

Date Sampled: 02/01/08 10:25

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	2.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	





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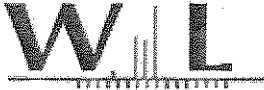
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL90-008 8022735-15 (Water)

Date Sampled: 02/04/08 07:47

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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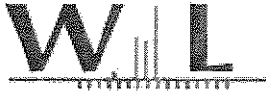
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL90-009 8022735-16 (Water)

Date Sampled: 02/04/08 08:09

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.5	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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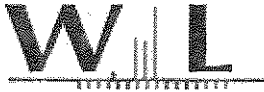
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JPL90-010 8022735-17 (Water)

Date Sampled: 02/04/08 08:34

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	6.6	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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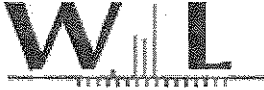
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL90-011 8022735-18 (Water)

Date Sampled: 02/04/08 09:05

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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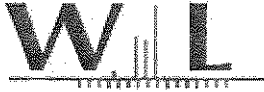
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Date Reported: 03/11/08 12:32

JPL90-013 8022735-19 (Water)

Date Sampled: 02/04/08 09:26

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

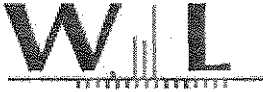
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JPL90-012 8022735-20 (Water)

Date Sampled: 02/04/08 09:40

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.3	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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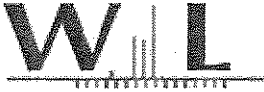
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JPL91-007 8022735-21 (Water)

Date Sampled: 02/05/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	100	0.90	ug/l	4.0	2	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

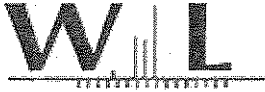
JPL91-004 8022735-22 (Water)

Date Sampled: 02/05/08 07:42

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.74	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	J





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Report ID: 8022735  
Project ID: JPL/EPTM

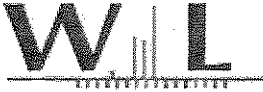
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JPL91-005 8022735-23 (Water)

Date Sampled: 02/05/08 08:18

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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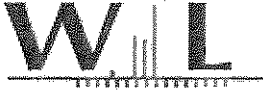
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL91-008 8022735-24 (Water)

Date Sampled: 02/05/08 08:40

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
 Project ID: JPL/EPTM

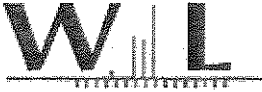
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JPL91-006 8022735-25 (Water)

Date Sampled: 02/05/08 08:53

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	100	0.90	ug/l	4.0	2	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

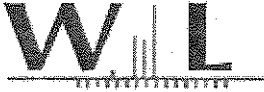
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Date Reported: 03/11/08 12:32

JPL91-001 8022735-26 (Water)

Date Sampled: 02/05/08 10:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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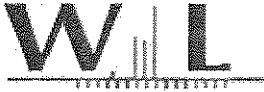
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL91-002 8022735-27 (Water)

Date Sampled: 02/05/08 11:22

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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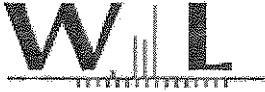
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Date Reported: 03/11/08 12:32

JPL91-003 8022735-28 (Water)

Date Sampled: 02/05/08 11:49

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	240	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Project ID: JPL/EPTM

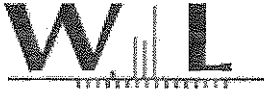
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Date Reported: 03/11/08 12:32

EPTM18-001 8022735-29 (Water)

Date Sampled: 02/05/08 13:50

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	260	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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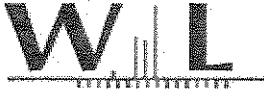
EPTM18-003 8022735-30 (Water)

Date Sampled: 02/05/08 14:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	310	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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Report ID: 8022735  
Project ID: JPL/EPTM

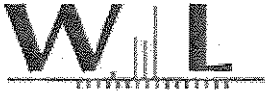
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EPTM18-004 8022735-31 (Water)

Date Sampled: 02/05/08 14:05

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	300	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Project ID: JPL/EPTM

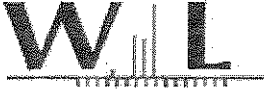
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EPTM18-005 8022735-32 (Water)

Date Sampled: 02/05/08 14:10

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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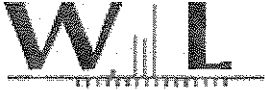
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JPL92-008 8022735-33 (Water)

Date Sampled: 02/06/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	10	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
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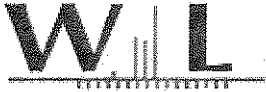
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JPL92-003 8022735-34 (Water)

Date Sampled: 02/06/08 07:56

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.80	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	J



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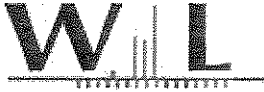
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JPL92-004 8022735-35 (Water)

Date Sampled: 02/06/08 08:32

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	8.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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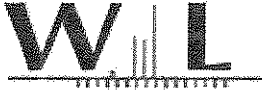
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JPL92-005 8022735-36 (Water)

Date Sampled: 02/06/08 09:01

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	11	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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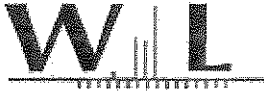
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JPL92-006 8022735-37 (Water)

Date Sampled: 02/06/08 09:31

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	15	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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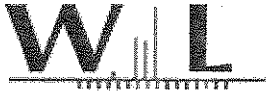
JPL92-009 8022735-38 (Water)

Date Sampled: 02/06/08 10:10

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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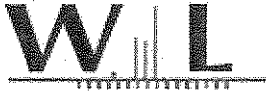
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JPL92-007 8022735-39 (Water)

Date Sampled: 02/06/08 10:26

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	9.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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 Industry, CA 91745  
 Phone 626.336.2139 Fax 626.336.2634

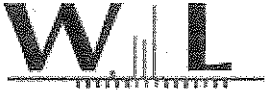
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
--	--	--

JPL92-001 8022735-40 (Water)

Date Sampled: 02/06/08 11:48

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

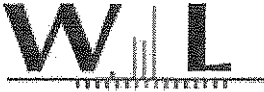
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL92-002 8022735-41 (Water)

Date Sampled: 02/06/08 12:16

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



Weck Laboratories, Inc.  
 14859 E. Clark Ave.  
 Industry, CA 91745  
 Phone 626.336.2139 Fax 626.336.2634

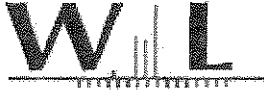
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
--	--	--

JPL93-005 8022735-42 (Water)

Date Sampled: 02/07/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	25	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

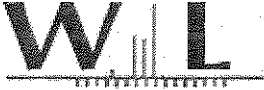
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL93-006 8022735-43 (Water)

Date Sampled: 02/07/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	13	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

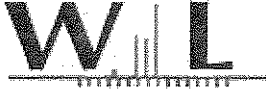
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL93-002 8022735-44 (Water)

Date Sampled: 02/07/08 08:21

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

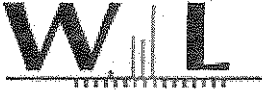
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL93-003 8022735-45 (Water)

Date Sampled: 02/07/08 08:54

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	23	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

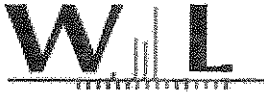
JPL93-007 8022735-46 (Water)

Date Sampled: 02/07/08 09:34

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

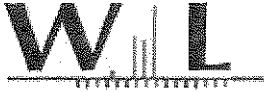
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL93-004 8022735-47 (Water)

Date Sampled: 02/07/08 09:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	12	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL94-002 8022735-48 (Water)

Date Sampled: 02/08/08 08:01

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	

**PACE ANALYTICAL SERVICES, INC.**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL90**

**March 12, 2008**

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL90  
Date of Report: March 12, 2008

**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>Pace Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-19-5	JPL90-001	VOA/PER
MW-19-4	JPL90-002	VOA/PER
MW-19-3	JPL90-003	VOA/PER
MW-19-2	JPL90-004	VOA/PER
MW-19-1	JPL90-005	VOA/PER
EB-6-02/01/08	JPL90-006	VOA/PER
TB-6-02/01/08	JPL90-007	VOA
MW-14-5	JPL90-008	VOA/PER
MW-14-4	JPL90-009	VOA/PER
MW-14-3	JPL90-010	VOA/MET/PER
MW-14-2	JPL90-011	VOA/MET/PER
MW-14-1	JPL90-012	VOA/MET/PER
EB-7-2/4/08	JPL90-013	VOA/MET/PER
TB-7-2/4/08	JPL90-014	VOA

**Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0) Subcontracted to Weck Laboratories

Summary of NELAC test accreditation

<b>Determination</b>	<b>NELAC approved</b>
TurMet for 200.7/200.8 TurMet	NO
200.8 Total Cr	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

Pace Analytical Services, Inc.  
940 S. Harney  
Seattle, WA 98108

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples. Two of three volatiles bottles submitted for TB-6-02/01/08 contained bubbles of less than 1/4 inch in size. One of three volatiles bottles submitted for MW-14-3 contained bubbles of less than 1/4 inch in size. Two of two volatiles bottles submitted for TB-7-2/4/08 contained bubbles of less than 1/4 inch in size. The labels for sample # 6 said EB-6-02/01/08 but the COC said EB-6-02/01/04. The labels for sample # 7 said TB-7-02/01/08 but the COC said TB-7-02/01/04. On February 6, 2008, the client sent a corrected COC that was attached to the narrative.

**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 2/11/2008 the percent D value for 1,2,3-trichlorobenzene exceeded 30% due to increased response. This analyte was not detected in any associated samples; 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."

Pace Analytical Services, Inc.  
940 S. Harney  
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:**

Pace 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.

**Pace Analytical Services, Inc.**

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.
  - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

**Pace Analytical Services, Inc.**  
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.
- Z Denotes data deemed unusable by the analyst.

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



**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. 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

3/12/08  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

3/12/08  
(DATE)

*HOW TO CONTACT US:*

All Pace Analytical Services, Inc. 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, Pace 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.

**Pace Analytical Services, Inc.**  
940 S. Harney  
Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies

**LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG**

Sample ID Mtx (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
WD JPL90-001	02/05/2008 08:30 AM	02/01/2008 09:01 AM	NW-19-5		IN	IN	
WD JPL90-002	02/05/2008 08:30 AM	02/01/2008 09:21 AM	NW-19-4		IN	IN	
WD JPL90-003	02/05/2008 08:30 AM	02/01/2008 09:45 AM	NW-19-3		IN	IN	
WD JPL90-004	02/05/2008 08:30 AM	02/01/2008 09:59 AM	NW-19-2		IN	IN	
WD JPL90-005	02/05/2008 08:30 AM	02/01/2008 10:25 AM	NW-19-1		IN	IN	
WD JPL90-006	02/05/2008 08:30 AM	02/01/2008 10:20 AM	EB-6- 02/01/08		IN	IN	
WD JPL90-007	02/05/2008 08:30 AM	02/01/2008 12:00 AM	TB-6- 02/01/08		IN	IN	
WD JPL90-008	02/05/2008 08:30 AM	02/04/2008 07:47 AM	NW-14-5		IN	IN	
WD JPL90-009	02/05/2008 08:30 AM	02/04/2008 08:09 AM	NW-14-4		IN	IN	
WD JPL90-010	02/05/2008 08:30 AM	02/04/2008 08:34 AM	NW-14-3		IN	IN	
WD JPL90-011	02/05/2008 08:30 AM	02/04/2008 09:05 AM	NW-14-2		IN	IN	
WD *JPL90-012	02/05/2008 08:30 AM	02/04/2008 09:40 AM	NW-14-1		IN	IN	
WD JPL90-013	02/05/2008 08:30 AM	02/04/2008 09:26 AM	EB-7-2/4/08	IN	IN	IN	IN
WD JPL90-014	02/05/2008 08:30 AM	02/04/2008 12:00 AM	TB-7-2/4/08			IN	

Approved By:  
Notes:

On:

LEGEND: - :Started , + :Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged  
 Samples identified with a '\*' client has requested QC for  
 Matrices: Water=WD  
 FORM LTL-PM-8.0



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

6/14/8

COMPANY: BOTTLE  
 ADDRESS: 3990 OLD TRAIL AVE C-205  
SAV DICKO, CA 92110  
 ATTENTION: DAVID COVER  
 PROJECT NAME: JPL 641 APR 1998  
 PROJECT CONTACT: DAVID COVER  
 TELEPHONE: 619-726-7311 / FAX: \_\_\_\_\_  
 JOB/P.O. NO.: 6486090/214319

CHAIN OF CUSTODY RECORD

43102

SDG # JPL 98

PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_

SUBMITTED AT: \_\_\_\_\_

TESTS TO PERFORM

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS
	<u>Vol (5-24.2)</u>
	<u>Clay (314.0)</u>

2

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

LAB. S/N	SAMPLE ID / LOCATION	DATE	TIME																
1	MW-19-5	02/01/04	0901																
2	MW-19-4		0921																
3	MW-19-3		0945																
4	MW-19-2		0959																
5	MW-19-1		1025																
6	LB-6-02/01/04		1020																
7	TB-6-02/01/04																		

A. A standard turnaround time is assumed unless otherwise marked.

B. The laboratory may not be responsible for missed routing 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: BOTTLE ADDRESS: 505 KILDA AVE  
 ATTN: GENERAL TRAPPINGS CITY, STATE, ZIP: COLUMBUS, OH 43201  
 RECEIVED BY (SIGN AND PRINT): W.L. Klein

\* 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

RELINQUISHED BY (SIGN AND PRINT)

DATE TIME

RECEIVED BY (SIGN AND PRINT)

DATE TIME

Signature: [Signature] / W.L. Klein  
 Date: 02/01/08 Time: 10:00  
 Date: 02/01/08 Time: 0830

**Laucks**  
 Testing Laboratories, Inc.  
 940 South Henry St., Seattle, WA 98108 (206) 757-5000 FAX 767-5063  
 1116 Eastwick Ave., Martinsburg, VA 25802 (800) 235-3095 FAX 452-1265

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

1148

COMPANY: BATTELLE  
 ADDRESS: 3990 OLD TOWN AVE, C-205  
SAV DIXON, CA 92110  
 ATTENTION: DAVID COVER  
 PROJECT NAME: SPL GW MON 1008  
 PROJECT CONTACT: DAVID COVER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/PO. NO.: 64860930 / 214319

CHAIN OF CUSTODY RECORD

43098

SDG # SPL 90

PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_

SUBMITTED AT: \_\_\_\_\_

940 Swada Hwy, Seattle, WA 98108  
 1100 Leitch Ave., Yakima, WA 98902

(206) 737-5000 FAX 737-5063  
 (509) 255-4095 FAX 502-1265



TESTS TO PERFORM

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	
	VOC (524.2)	
	TOTAL Cr (600.2)	
	CMV (314.0)	

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

LAB #	SAMPLE ID / LOCATION	DATE	TIME															
8	MW-14-5	2/4/08	747	W	4	X												
9	MW-14-4		809		4	X		X										
10	MW-14-3		834		5	X	X	X										
11	MW-14-2		905		5	X	X	X										
12	MW-14-1		940		10	X	X	X										
13	ES-7-2/4/08		926		5	X	X	X										
14	TB-7-2/4/08				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:  
 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  
 ADDRESS: 505 BULLS 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 (50% SUR)  
 OTHER: \_\_\_\_\_  
 TEMP: \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  N/A

RELINQUISHED BY (SIGN AND PRINT)  
Mark / Marco Mendoza

DATE: 2/4/08  
 TIME: 1300

RECEIVED BY (SIGN AND PRINT)  
Kristin Klein

DATE: 2.5.08  
 TIME: 0830

**FORM SUMMARY**

SDG # JPL90

Volatiles Analysis

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-001  
 Lab File ID: Y0211015.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/11/2008 13:52  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		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	0.36	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	0.38	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



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-001  
 Lab File ID: Y0211015.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/11/2008 13:52  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	2.6	
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-001  
 Lab File ID: Y0211015.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/11/2008 13:52  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-19-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-002  
 Lab File ID: Y0211016.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/11/2008 14:17  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.26	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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-4

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025806

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL90-002

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

Lab File ID: Y0211016.D

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

Date Collected: 02/01/2008

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

Date/Time Analyzed: 02/11/2008 14:17

GC Column: DB-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:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.58	
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-4

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025806

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL90-002

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

Lab File ID: Y0211016.D

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

Date Collected: 02/01/2008

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

Date/Time Analyzed: 02/11/2008 14:17

GC Column: DB-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:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-19-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-003  
 Lab File ID: Y0211017.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/11/2008 14:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-003  
 Lab File ID: Y0211017.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/11/2008 14:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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	1,1,2,2-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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-003  
 Lab File ID: Y0211017.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/11/2008 14:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-19-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL90-004  
 Lab File ID: Y0212014.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/12/2008 13:07  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.36	J
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.34	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.56	
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	1.3	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL90-004  
 Lab File ID: Y0212014.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/12/2008 13:07  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.78	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL90-004  
 Lab File ID: Y0212014.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/12/2008 13:07  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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	0.33	J

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-1

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025806

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL90-005

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

Lab File ID: Y0211019.D

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

Date Collected: 02/01/2008

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

Date/Time Analyzed: 02/11/2008 15:31

GC Column: DB-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:	
		<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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-005  
 Lab File ID: Y0211019.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/11/2008 15:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-005  
 Lab File ID: Y0211019.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/11/2008 15:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

EB-6-02/01/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-006  
 Lab File ID: Y0211020.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/11/2008 15:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-6-02/01/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025806

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL90-006

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

Lab File ID: Y0211020.D

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

Date Collected: 02/01/2008

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

Date/Time Analyzed: 02/11/2008 15:56

GC Column: DB-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:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-6-02/01/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025806

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL90-006

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

Lab File ID: Y0211020.D

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

Date Collected: 02/01/2008

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

Date/Time Analyzed: 02/11/2008 15:56

GC Column: DB-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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-6-02/01/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-007  
 Lab File ID: Y0211021.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/11/2008 16:21  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	Q
		<u>ug/L</u>	
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-6-02/01/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-007  
 Lab File ID: Y0211021.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/11/2008 16:21  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-6-02/01/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-007  
 Lab File ID: Y0211021.D  
 Date Collected: 02/01/2008  
 Date/Time Analyzed: 02/11/2008 16:21  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-14-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-008  
 Lab File ID: Y0211022.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 16:45  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-008  
 Lab File ID: Y0211022.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 16:45  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-008  
 Lab File ID: Y0211022.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 16:45  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-14-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-009  
 Lab File ID: Y0211023.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 17:10  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-009  
 Lab File ID: Y0211023.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 17:10  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-009  
 Lab File ID: Y0211023.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 17:10  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-14-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL90-010  
 Lab File ID: Y0212015.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/12/2008 13:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.38	J
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	0.51	
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	1.4	
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-3

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025836

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL90-010

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

Lab File ID: Y0212015.D

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

Date Collected: 02/04/2008

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

Date/Time Analyzed: 02/12/2008 13:31

GC Column: DB-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:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.58	
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL90-010  
 Lab File ID: Y0212015.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/12/2008 13:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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	0.26	J

Comments:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-011  
 Lab File ID: Y0211025.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 17:59  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	Q
		<u>ug/L</u>	
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	0.27	J
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.41	J
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	6.7	
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-2

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025806

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL90-011

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

Lab File ID: Y0211025.D

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

Date Collected: 02/04/2008

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

Date/Time Analyzed: 02/11/2008 17:59

GC Column: DB-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:	
		<u>ug/L</u>	<u>Q</u>
108-88-3	Toluene	0.50	U
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	1,1,2,2-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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-011  
 Lab File ID: Y0211025.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 17:59  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-14-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-012  
 Lab File ID: Y0211026.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 18:24  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.34	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	3.4	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-1

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025806

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL90-012

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

Lab File ID: Y0211026.D

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

Date Collected: 02/04/2008

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

Date/Time Analyzed: 02/11/2008 18:24

GC Column: DB-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:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-14-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-012  
 Lab File ID: Y0211026.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 18:24  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

EB-7-2/4/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-013  
 Lab File ID: Y0211027.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 18:49  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-7-2/4/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-013  
 Lab File ID: Y0211027.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 18:49  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-7-2/4/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-013  
 Lab File ID: Y0211027.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 18:49  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-7-2/4/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-014  
 Lab File ID: Y0211013.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 13:03  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-7-2/4/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-014  
 Lab File ID: Y0211013.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 13:03  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-7-2/4/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL90  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-014  
 Lab File ID: Y0211013.D  
 Date Collected: 02/04/2008  
 Date/Time Analyzed: 02/11/2008 13:03  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-19-5

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025806

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL90-001

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

Lab File ID: Y0211015.D

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

Date Collected: 02/01/2008

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

Date Analyzed: 02/11/2008

GC Column: DB-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

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-19-4

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025806

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL90-002

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

Lab File ID: Y0211016.D

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

Date Collected: 02/01/2008

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

Date Analyzed: 02/11/2008

GC Column: DB-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

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-19-3

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL90  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-003  
 Lab File ID: Y0211017.D  
 Date Collected: 02/01/2008  
 Date Analyzed: 02/11/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-19-2

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025836

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL90-004

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

Lab File ID: Y0212014.D

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

Date Collected: 02/01/2008

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

Date Analyzed: 02/12/2008

GC Column: DB-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

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-19-1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL90  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-005  
 Lab File ID: Y0211019.D  
 Date Collected: 02/01/2008  
 Date Analyzed: 02/11/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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.

EB-6-02/01/08

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025806

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL90-006

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

Lab File ID: Y0211020.D

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

Date Collected: 02/01/2008

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

Date Analyzed: 02/11/2008

GC Column: DB-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

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-6-02/01/08

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL90  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-007  
 Lab File ID: Y0211021.D  
 Date Collected: 02/01/2008  
 Date Analyzed: 02/11/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-14-5

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL90  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-008  
 Lab File ID: Y0211022.D  
 Date Collected: 02/04/2008  
 Date Analyzed: 02/11/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-14-4

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025806

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL90-009

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

Lab File ID: Y0211023.D

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

Date Collected: 02/04/2008

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

Date Analyzed: 02/11/2008

GC Column: DB-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

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-14-3

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL90  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL90-010  
 Lab File ID: Y0212015.D  
 Date Collected: 02/04/2008  
 Date Analyzed: 02/12/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-14-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL90  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-011  
 Lab File ID: Y0211025.D  
 Date Collected: 02/04/2008  
 Date Analyzed: 02/11/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-14-1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL90  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025806  
 Lab Sample ID: JPL90-012  
 Lab File ID: Y0211026.D  
 Date Collected: 02/04/2008  
 Date Analyzed: 02/11/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-7-2/4/08

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025806

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL90-013

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

Lab File ID: Y0211027.D

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

Date Collected: 02/04/2008

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

Date Analyzed: 02/11/2008

GC Column: DB-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

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-7-2/4/08

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL90

Run Sequence: R025806

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL90-014

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

Lab File ID: Y0211013.D

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

Date Collected: 02/04/2008

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

Date Analyzed: 02/11/2008

GC Column: DB-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

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

**FORMS SUMMARY**

**JPL89**

**Metals Data**



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-4

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-002

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.62			M	R025772

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

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

Comment \_\_\_\_\_  
 \_\_\_\_\_  
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Date Printed: 2/11/2008 9:26

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-003

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	12.9			M	R025772

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

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

Comment \_\_\_\_\_  
 \_\_\_\_\_  
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Date Printed: 2/11/2008 9:26

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-18-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-004

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.11			M	R025772

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

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

Comment \_\_\_\_\_  
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Date Printed: 2/11/2008 9:26

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-17-4

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-005

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	5.40			M	R025772

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

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

Comment \_\_\_\_\_  
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Date Printed: 2/11/2008 9:26

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-17-3

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-006

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	3.20			M	R025772

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

Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_  
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Date Printed: 2/11/2008 9:26

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-17-2

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-007

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	10.4			M	R025772

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

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

Comment \_\_\_\_\_  
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Date Printed: 2/11/2008 9:26

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-5-01/31/08

Lab Name: Laucks Laboratories

Contract: JPL Groundwater Monitorin

Lab Code: LAUCKS

SDG No.: JPL89

Matrix (soil/water): Water

Lab Sample ID: JPL89-008

Level (low/med): LOW

Date Received: 02/01/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U		M	R025772

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

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

Comment \_\_\_\_\_  
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Date Printed: 2/11/2008 9:26

**Perchlorate Data**  
**Subcontracted to Weck Laboratories**



## OA/QC Data Package

### EPA Method 314 – Perchlorate

Lab ID number: 8022735 (01-14,15-20,22-24,26,27,32-34)

#### 1. Case Narrative

The samples were received on ice and they were in good condition. The temperature upon receipt at the laboratory was 2.3°C. Due to autosampler malfunction, samples 8022735-01 thru -08 (Weck Lab IDs) were analyzed one day past hold time. All other samples were completed within holding time. Also, Weck Lab IDs did not numerically correspond directly to Client's sample IDs, so samples -01 thru -08 were not run in order. All QA/QC determinations were within acceptance ranges.

The following acronyms are used in this data package:

IPC: Instrument Performance Check, is a calibration check standard prepared in a matrix of high conductivity. It defines the highest background that a sample can have to be analyzed directly; samples with higher backgrounds need to be diluted.

IPC: Instrument Performance Check prepared with high conductivity matrix (20 ppb).

LRB: Laboratory Reagent Blank or Method Blank.

CCV: Continuing Calibration Check Standard at low-level (2 ppb) and mid-level (20 ppb or 40 ppb).

Note: CCVs start with 2 ppb, then alternate between 20 and 40 ppb through the batch.

#### 2. QC Summaries

See Quality Control Report

#### 3. Sample Data

- 3.1 Analytical results summary: see Certificate of Analysis.
- 3.2 Chromatograms, quantitation reports and injection log for samples and QC runs for the batch: See Appendix 1.
- 3.3 Chain of custody record: A copy is included with the Certificate of Analysis.
- 3.4 Copies of bench sheets and secondary review checklist: Appendix 2.

#### 4. Calibration Data

- 4.1 Initial Calibration summary and chromatograms: See Appendix 3.
- 4.2 Continuing calibration summary and chromatograms: See Appendix 1.

5. Raw Data

- 5.1 Chromatograms and quantitation for MS/MSD and LCS: See Appendix 1.
- 5.2 Bench sheets: See Appendix 2.

6. Standards Preparation Records

- 6.1 See Appendix 4 for copies of standards and solutions preparation



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: **Pace Analytical** Report To: **Kara Godineaux** Invoice Information: Attention: **Kara Godineaux** Page: **1** of **6**

Section B Required Project Information: Address: **940 S. Havens St. Seattle, WA 98108** Copy To: **Kara Godineaux** Company Name: **Pace Analytical** Address: **1194806** Project Name: **JPL / EPTM** Purchase Order No.: **1194806** Project Number: **JPL / EPTM** Requested Due Date/TAT: **JPL / EPTM** Project Profile #:

Section C Required Client Information: Matrix Codes: Drinking Water, Water, Waste Water, Product, Soil/Solid, Oil, Wipe, Air, Tissue, Other. MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP) DATE TIME DATE TIME SAMPLE TEMP AT COLLECTION # OF CONTAINERS Unpreserved, H<sub>2</sub>SO<sub>4</sub>, HNO<sub>3</sub>, HCl, NaOH, Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, Methanol, Other. Analysis Test: **314.0 Perchlorate** Residual Chlorine (Y/N)

SAMPLE ID (A-Z, 0-9 / -)	Matrix Codes MATRIX / CODE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Y/N	Requested Analytes Filled (Y/N)	Temp In °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
								H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other								
JPL 89-005		01/31	08:11				1															
JPL 89-006		01/31	08:54				1															
JPL 89-008		01/31	09:11				1															
JPL 89-007		01/31	09:20				1															
JPL 89-001		01/31	10:50				1															
JPL 89-002		01/31	11:38				1															
JPL 89-003		01/31	12:20				1															
JPL 89-004		01/31	12:51				1															
JPL 90-001		02/01	09:01				1															
JPL 90-002		02/01	09:21				1															
JPL 90-003		02/01	09:45				1															
JPL 90-004		02/01	09:59				1															

Additional Comments: **Relinquished by Affiliation** Date: **02-26-08** Time: **2:22** Accepted by Affiliation: **Samuel J. ...** Date: **2/26/08** Time: **9:50**

Requester Name and Signature: **Carla ... / Pace** Date Signed: **2/26/08** Signature of Sampler: **Samuel J. ...** Date Signed: **2/26/08**

Temp In °C: **11.5** Received on Ice (Y/N): **Y** Custody Sealed Cooler (Y/N): **Y** Samples Intact (Y/N): **Y**

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**

Required Client Information:

Company: **Pace Analytical**  
Address: **940 S. Harney St.**  
City: **Seattle, WA 98108**  
Email To: **Kang@paceanalytical.com**  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
Requested Due Date/AT: \_\_\_\_\_

**Section B**

Required Project Information:

Report To: **Kara Godineaux**  
Copy To: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: **JPL/LEPTM**  
Project Number: \_\_\_\_\_

**Section C**

Invoice Information:

Attention: **Kara Godineaux**  
Company Name: **Pace Analytical**  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
State: \_\_\_\_\_  
Zip: \_\_\_\_\_  
Reference: \_\_\_\_\_  
Page Project Manager: **Kara Godineaux**  
Page Profile #: \_\_\_\_\_

Page: **2** of **4**  
119480

**SUBJECT - 5**

REGULATORY AGENCY: \_\_\_\_\_  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
 Site Location STATE: \_\_\_\_\_

Section D Required Client Information	Matrix Codes MATRIX 1 CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
				DATE	TIME						
JPL90-006				02/01	10:20		1		314.0 Perchlorate		
JPL90-005				02/01	10:25		1				
JPL90-008				02/04	07:47		1				
JPL90-009				02/04	08:09		1				
JPL90-010				02/04	08:34		1				
JPL90-011				02/04	09:05		1				
JPL90-015				02/04	09:26		1				
JPL90-012				02/04	09:40		1				
JPL91-007				02/05	00:00		1				
JPL91-004				02/05	07:42		1				
JPL91-005				02/05	08:16		1				
JPL91-008				02/05	08:40		1				
ADDITIONAL COMMENTS											
Please do MS/MSD on <b>Colli. Samples / Pace</b>											
RELINQUISHED BY: AFFILIATION: <b>Pace</b> DATE: <b>02-26-08</b> TIME: _____											
ACCEPTED BY: AFFILIATION: <b>Sam Godiner</b> DATE: <b>2/27/08</b> TIME: <b>9:50</b>											
SAMPLER NAME AND SIGNATURE											
PRINT NAME OF SAMPLER: _____											
SIGNATURE OF SAMPLER: _____											
DATE SIGNED (MM/DD/YY): _____											
Temp in °C _____											
Received on Ice (Y/N) _____											
Custody Sealed Cooler (Y/N) _____											
Samples Intact (Y/N) _____											

ORIGINAL

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Requested Client Information: Company: <b>Pace Analytical</b> Address: <b>940 S. Harvey St.</b> City: <b>Seattle, WA 98108</b> Phone: <b>Karyn @ laucks labs.com</b> Fax:		<b>Section B</b> Requested Project Information: Report To: <b>Kara Godineaux</b> Copy To: Purchase Order No.: Project Name: <b>JPL/EPTM</b> Project Number:		<b>Section C</b> Invoice Information: Attention: <b>Kara Godineaux</b> Company Name: <b>Pace Analytical</b> Address: PACE QUOTE Reference: PACE PROJECT MANAGER PACE PROFILE #	
Requested Due Date/TAT:		REGULATOR AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER		Site Location STATE:	

Section D Requested Client Information	Matrix Codes MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab ID.
			COMPOSITE START	COMPOSITE END/GRAB											
JPL91-006					02/05	08:53				1					MW-4-1
JPL91-001					02/05	10:50				1					MW-3-4
JPL92-JPL91-002					02/05	11:22				1					MW-3-3
JPL91-003					02/05	11:49				1					MW-3-2
EPTM18-001					02/05	13:50				1					MW-3-1
EPTM18-003					02/05	14:00				1					GACIN
EPTM18-004					02/05	14:05				1					FBRIN
EPTM18-005					02/05	14:10				1					FBRIN DUP
JPL92-008					02/06	00:00				1					FBRUIT
JPL92-003					02/06	07:56				1					DUPE-3-100K
JPL92-004					02/06	08:32				1					MW-25-5
JPL92-005					02/06	09:01				1					MW-25-4
															MW-25-3

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
PLEASE DO MS/MSD ON	Pace Stray / Pace	02-26-08		James Imber	2/27/08	9:50
samples: ND samples						

ORIGINAL SAMPLER NAME AND SIGNATURE PRINT NAME OF SAMPLER: SIGNATURE OF SAMPLER:		DATE SIGNED (MM/DD/YY):
Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)		

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:
Company: <b>PACE Analytical</b>	Report To: <b>Kara Godineaux</b>	Attention: <b>Kara Godineaux</b>
Address: <b>9405 Harnes St.</b>	Copy To:	Company Name: <b>Pace Analytical</b>
Seattle WA 98108	Purchase Order No.:	Address:
Home: <b>Kara@paceanalytical.com</b>	Project Name: <b>JPL/EPTM</b>	Pace Guide
Fax:	Project Number:	Pace Project Manager
Requested Due Date/TAT:		Reference: <b>Kara Godineaux</b>
		Pace Staff #:
		REGULATORY AGENCY
		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
		<input type="checkbox"/> UST <input type="checkbox"/> RORA <input type="checkbox"/> OTHER
		Site Location STATE:
		Requested Analysis Filtered (Y/N)
		Temp in °C
		Received on Ice (Y/N)
		Custody Sealed Cooler (Y/N)
		Samples Intact (Y/N)

Section D Required Client Information	Matrix Codes MATRIX CODE	DW WT WW P SL OL WP AR TS OT	Drinking Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
						DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl				
JPL92-006						02/06	09:31			X									MW-25-2
JPL92-009						02/06	10:10			X									EB-9-2/6/08
JPL92-007						02/06	10:26			X									MW-25-1
JPL92-001						02/06	11:48			X									MW-26-2
JPL92-002						02/06	12:16			X									MW-26-1
JPL93-005						02/07	00:00			X									DUPE-4-1008
JPL93-006						02/07	00:00			X									DUPE-5-1008
JPL93-002						02/07	08:21			X									MW-24-3
JPL93-003						02/07	08:54			X									MW-24-2
JPL93-007						02/07	09:34			X									EB-10-2/7/08
JPL93-004						02/07	09:50			X									MW-24-1
JPL94-002						02/08	08:01			X									MW-23-3

ADDITIONAL COMMENTS	REINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Please do MS/USD on samples: JPL92-006	<i>Cathy Stevens</i> / Pace	02-26-08		<i>Jane Dimer</i>	2/27/08	9:50	

<b>SAMPLER NAME AND SIGNATURE</b>		PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):
<b>ORIGINAL</b>				

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:  
 Company: **Trace Analytical**  
 Address: **9410 S. Harnes St.**  
 Seattle, WA 98108  
 Phone: **Karag @ traceanalytical.com**  
 Fax: \_\_\_\_\_

Section B Required Project Information:  
 Report To: **Kara Godineaux**  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: **JPL / EPTM**  
 Project Number: \_\_\_\_\_

Section C Invoice Information:  
 Attention: **Kara Godineaux**  
 Company Name: **Trace Analytical**  
 Address: \_\_\_\_\_  
 City/State: \_\_\_\_\_  
 Zip: \_\_\_\_\_  
 Requested Analysis: **Kara Godineaux**

REGULATORY AGENCY: \_\_\_\_\_  
 NPDES:  GROUND WATER:  DRINKING WATER:   
 UST:  RCRA:  OTHER: \_\_\_\_\_  
 State location: \_\_\_\_\_  
 STATER: \_\_\_\_\_

Section D Required Client Information Matrix Code	Matrix Code DW WT WW P SL OL WP AR TS OT	Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab ID.	
					COMPOSITE START	COMPOSITE ENDS GRAB							H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other					W/N
JPL 94-002							02/08	08:01				1												MW-23-3
JPL 94-005							02/08	08:31				1											MW-23-2	
JPL 94-006							02/08	08:56				1										ES-11-2/8/08		
JPL 94-004							02/08	09:09				1										SB-7-1Q 08		
JPL 94-007							02/11	11:25				1										MW-23-1		
JPL 94-008							02/12	00:00				1										MW-5		
JPL 95-003							02/12	07:00				1										MW-6		
JPL 95-001							02/12	07:00				1										DOPE-6-1Q 08		
JPL 95-002							02/12	11:28				1										MW-7		
EPTM 19-001							02/12	13:00				1										MW-6		
EPTM 19-003							02/12	13:15				1										GACTIN		
																						FRPIN		

ADDITIONAL COMMENTS: \_\_\_\_\_  
 RELINQUISHED BY / AFFILIATION: **Carin Struss / Pace** DATE: **02-26-08** TIME: \_\_\_\_\_  
 ACCEPTED BY / AFFILIATION: **James Dwyer** DATE: **2/27/08** TIME: **9:30**  
 SAMPLE CONDITIONS: \_\_\_\_\_

PLEASE DO NOT SIGN ON SAMPLES: **JPL 94-004**

ORIGINAL

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_  
 PRINT NAME OF SAMPLER: \_\_\_\_\_  
 SIGNATURE OF SAMPLER: \_\_\_\_\_  
 DATE SIGNED (MM/DD/YYYY): \_\_\_\_\_





# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: **Pace Analytical** Address: **940 S. Harvard St. Seattle, WA 98108** Email For: **Karyn@paceanalytical.com** Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Requested Due Date/TAT: \_\_\_\_\_

Section B Report For: **Kara Godineau** Copy To: \_\_\_\_\_ Purchase Order No.: \_\_\_\_\_ Project Name: **JPL/EPTM** Project Number: \_\_\_\_\_

Section C Invoice Information: Attention: **Kara Godineau** Company Name: **Pace Analytical** Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Reference: \_\_\_\_\_ Price Quote: \_\_\_\_\_ Price Project: **Kara Godineau** Manager: \_\_\_\_\_ Pace Profile #: \_\_\_\_\_

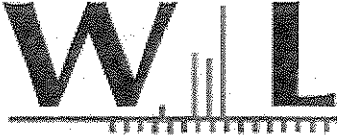
REGULATORY AGENCY: \_\_\_\_\_ NPDES  GROUND WATER  DRINKING WATER  UST  RCRA  OTHER  Site Location: \_\_\_\_\_ STATE: \_\_\_\_\_

Page: **6** of **6**  
**119481**  
**Sub PER - 9**

ITEM #	Section D Required Client Information Matrix Codes Drinking Water DW Water WWT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Analysis Test	Requested/Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB							
1	EPTM19-004	02/12	13:15			1						EPTM19-004
2	EPTM19-005	02/12	13:50			1						EPTM19-005
3	JPL96-003	02/13	00:00			1						JPL96-003
4	JPL96-001	02/13	08:30			1						JPL96-001
5	JPL96-002	02/13	10:55			1						JPL96-002
6	JPL97-001	02/14	08:17			1						JPL97-001
7	EPTM20-001	02/20	16:00			1						EPTM20-001
8	EPTM20-003	02/20	16:30			1						EPTM20-003
9	EPTM20-004	02/20	16:30			1						EPTM20-004
10	PKMWD80201-001	02/08	11:00			1						PKMWD80201-001
REINQUISHED BY/AFFILIATION: <b>Carl Ska / Pace</b> DATE: <b>02-21-08</b> TIME: _____												
ACCEPTED BY/AFFILIATION: <b>David Jindra</b> DATE: <b>2/21/08</b> TIME: <b>9:50</b>												
SAMPLER NAME AND SIGNATURE: _____												
PRINT NAME of SAMPLER: _____												
SIGNATURE of SAMPLER: _____												
DATE Signed (MM/DD/YY): _____												
Temp in °C _____												
Received on Ice (Y/N) _____												
Custody Sealed Cooler (Y/N) _____												
Samples Intact (Y/N) _____												

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days. F-A11 -0-070rev 07 15-Mar-2007





14859 E. Clark Ave., Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634  
info@wecklabs.com www.wecklabs.com

**CERTIFICATE OF ANALYSIS**

**Client:** Pace Analytical Services  
940 South Harney Street  
Seattle, WA 98108  
Attention: Kara Godineaux  
  
Phone: (206) 957-2422  
Fax: (206) 767-5063

**Report Date:** 03/11/08 12:32  
**Received Date:** 02/27/08 09:50  
**Turn Around:** Normal

**Work Order #:** 8022735  
  
**Client Project:** JPL/EPTM

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Kara Godineaux :

Enclosed are the results of analyses for samples received 02/27/08 09:50 with the Chain of Custody document. The samples were received in good condition. The samples were received at 2.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

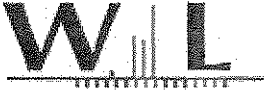
Reviewed by:

Kim G Tu

Project Manager

Page 1 of 55





Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

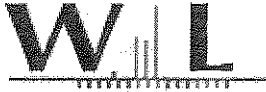
### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
JPL89-005	Client		8022735-01	Water	01/31/08 08:11
JPL89-006	Client		8022735-02	Water	01/31/08 08:54
JPL89-008	Client		8022735-03	Water	01/31/08 09:11
JPL89-007	Client		8022735-04	Water	01/31/08 09:20
JPL89-001	Client		8022735-05	Water	01/31/08 10:50
JPL89-002	Client		8022735-06	Water	01/31/08 11:38
JPL89-003	Client		8022735-07	Water	01/31/08 12:20
JPL89-004	Client		8022735-08	Water	01/31/08 12:51
JPL90-001	Client		8022735-09	Water	02/01/08 09:01
JPL90-002	Client		8022735-10	Water	02/01/08 09:21
JPL90-003	Client		8022735-11	Water	02/01/08 09:45
JPL90-004	Client		8022735-12	Water	02/01/08 09:59
JPL90-006	Client		8022735-13	Water	02/01/08 10:20
JPL90-005	Client		8022735-14	Water	02/01/08 10:25
JPL90-008	Client		8022735-15	Water	02/04/08 07:47
JPL90-009	Client		8022735-16	Water	02/04/08 08:09
JPL90-010	Client		8022735-17	Water	02/04/08 08:34
JPL90-011	Client		8022735-18	Water	02/04/08 09:05
JPL90-013	Client		8022735-19	Water	02/04/08 09:26
JPL90-012	Client		8022735-20	Water	02/04/08 09:40
JPL91-007	Client		8022735-21	Water	02/05/08 00:00
JPL91-004	Client		8022735-22	Water	02/05/08 07:42
JPL91-005	Client		8022735-23	Water	02/05/08 08:18
JPL91-008	Client		8022735-24	Water	02/05/08 08:40
JPL91-006	Client		8022735-25	Water	02/05/08 08:53
JPL91-001	Client		8022735-26	Water	02/05/08 10:50
JPL91-002	Client		8022735-27	Water	02/05/08 11:22
JPL91-003	Client		8022735-28	Water	02/05/08 11:49
EPTM18-001	Client		8022735-29	Water	02/05/08 13:50
EPTM18-003	Client		8022735-30	Water	02/05/08 14:00
EPTM18-004	Client		8022735-31	Water	02/05/08 14:05

Weck Laboratories, Inc  
Kim G Tu, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**Sub-PER - 11**



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

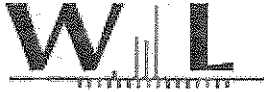
Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
EPTM18-005	Client		8022735-32	Water	02/05/08 14:10
JPL92-008	Client		8022735-33	Water	02/06/08 00:00
JPL92-003	Client		8022735-34	Water	02/06/08 07:56
JPL92-004	Client		8022735-35	Water	02/06/08 08:32
JPL92-005	Client		8022735-36	Water	02/06/08 09:01
JPL92-006	Client		8022735-37	Water	02/06/08 09:31
JPL92-009	Client		8022735-38	Water	02/06/08 10:10
JPL92-007	Client		8022735-39	Water	02/06/08 10:26
JPL92-001	Client		8022735-40	Water	02/06/08 11:48
JPL92-002	Client		8022735-41	Water	02/06/08 12:16
JPL93-005	Client		8022735-42	Water	02/07/08 00:00
JPL93-006	Client		8022735-43	Water	02/07/08 00:00
JPL93-002	Client		8022735-44	Water	02/07/08 08:21
JPL93-003	Client		8022735-45	Water	02/07/08 08:54
JPL93-007	Client		8022735-46	Water	02/07/08 09:34
JPL93-004	Client		8022735-47	Water	02/07/08 09:50
JPL94-002	Client		8022735-48	Water	02/08/08 08:01



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

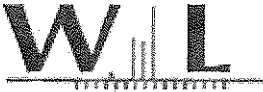
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL89-005 8022735-01 (Water)

Date Sampled: 01/31/08 08:11

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	1.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04, J



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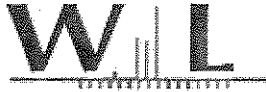
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL89-006 8022735-02 (Water)

Date Sampled: 01/31/08 08:54

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	24	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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Report ID: 8022735  
 Project ID: JPL/EPTM

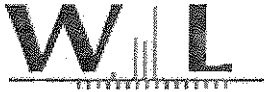
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JPL89-008 8022735-03 (Water)

Date Sampled: 01/31/08 09:11

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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Project ID: JPL/EPTM

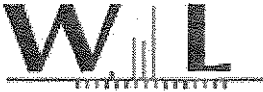
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JPL89-007 8022735-04 (Water)

Date Sampled: 01/31/08 09:20

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	8.8	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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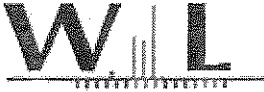
JPL89-001 8022735-05 (Water)

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**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04





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Report ID: 8022735  
Project ID: JPL/EPTM

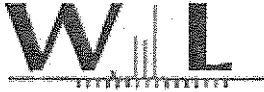
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JPL89-002 8022735-06 (Water)

Date Sampled: 01/31/08 11:38

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	28	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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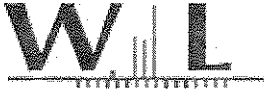
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JPL89-003 8022735-07 (Water)

Date Sampled: 01/31/08 12:20

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	29	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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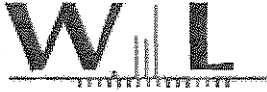
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL89-004 8022735-08 (Water)

Date Sampled: 01/31/08 12:51

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.98	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04, J



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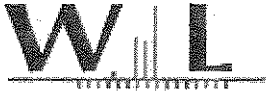
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JPL90-001 8022735-09 (Water)

Date Sampled: 02/01/08 09:01

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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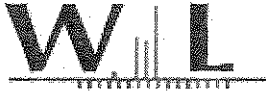
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JPL90-002 8022735-10 (Water)

Date Sampled: 02/01/08 09:21

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	1.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac j	



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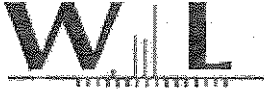
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JPL90-003 8022735-11 (Water)

Date Sampled: 02/01/08 09:45

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	7.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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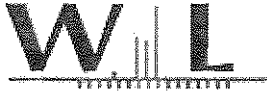
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JPL90-004 8022735-12 (Water)

Date Sampled: 02/01/08 09:59

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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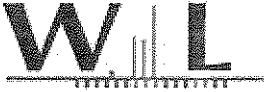
JPL90-006 8022735-13 (Water)

Date Sampled: 02/01/08 10:20

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	





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Project ID: JPL/EPTM

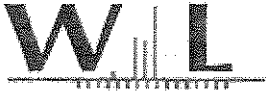
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JPL90-005 8022735-14 (Water)

Date Sampled: 02/01/08 10:25

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	2.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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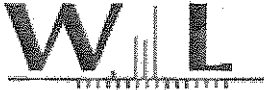
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JPL90-008 8022735-15 (Water)

Date Sampled: 02/04/08 07:47

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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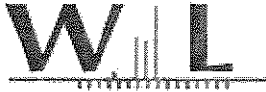
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JPL90-009 8022735-16 (Water)

Date Sampled: 02/04/08 08:09

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.5	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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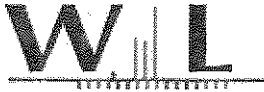
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JPL90-010 8022735-17 (Water)

Date Sampled: 02/04/08 08:34

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	6.6	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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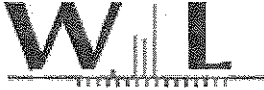
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JPL90-011 8022735-18 (Water)

Date Sampled: 02/04/08 09:05

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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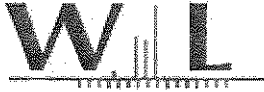
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JPL90-013 8022735-19 (Water)

Date Sampled: 02/04/08 09:26

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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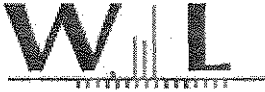
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JPL90-012 8022735-20 (Water)

Date Sampled: 02/04/08 09:40

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.3	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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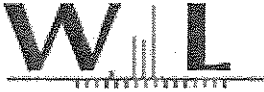
JPL91-007 8022735-21 (Water)

Date Sampled: 02/05/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	100	0.90	ug/l	4.0	2	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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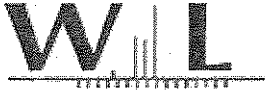
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Date Reported: 03/11/08 12:32

JPL91-004 8022735-22 (Water)

Date Sampled: 02/05/08 07:42

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.74	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	J



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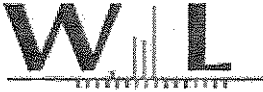
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Date Reported: 03/11/08 12:32

JPL91-005 8022735-23 (Water)

Date Sampled: 02/05/08 08:18

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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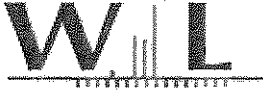
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JPL91-008 8022735-24 (Water)

Date Sampled: 02/05/08 08:40

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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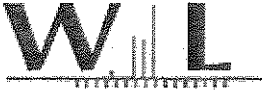
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JPL91-006 8022735-25 (Water)

Date Sampled: 02/05/08 08:53

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	100	0.90	ug/l	4.0	2	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

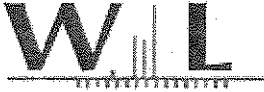
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Date Reported: 03/11/08 12:32

JPL91-001 8022735-26 (Water)

Date Sampled: 02/05/08 10:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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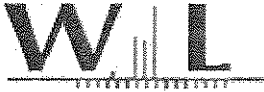
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL91-002 8022735-27 (Water)

Date Sampled: 02/05/08 11:22

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

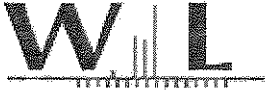
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Date Reported: 03/11/08 12:32

JPL91-003 8022735-28 (Water)

Date Sampled: 02/05/08 11:49

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	240	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

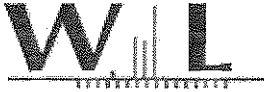
EPTM18-001 8022735-29 (Water)

Date Sampled: 02/05/08 13:50

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	260	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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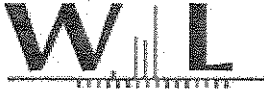
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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EPTM18-003 8022735-30 (Water)

Date Sampled: 02/05/08 14:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	310	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

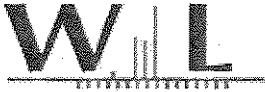
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Date Reported: 03/11/08 12:32

EPTM18-004 8022735-31 (Water)

Date Sampled: 02/05/08 14:05

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	300	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

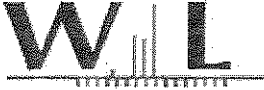
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Date Reported: 03/11/08 12:32

EPTM18-005 8022735-32 (Water)

Date Sampled: 02/05/08 14:10

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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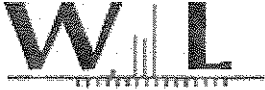
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-008 8022735-33 (Water)

Date Sampled: 02/06/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	10	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
 Project ID: JPL/EPTM

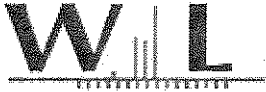
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 Date Reported: 03/11/08 12:32

JPL92-003 8022735-34 (Water)

Date Sampled: 02/06/08 07:56

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.80	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	J



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Report ID: 8022735  
Project ID: JPL/EPTM

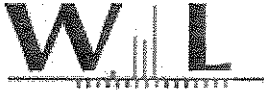
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Date Reported: 03/11/08 12:32

JPL92-004 8022735-35 (Water)

Date Sampled: 02/06/08 08:32

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	8.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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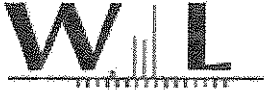
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-005 8022735-36 (Water)

Date Sampled: 02/06/08 09:01

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	11	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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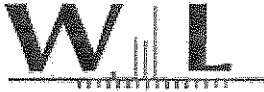
JPL92-006 8022735-37 (Water)

Date Sampled: 02/06/08 09:31

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	15	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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Report ID: 8022735  
 Project ID: JPL/EPTM

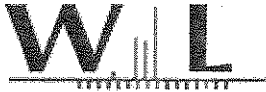
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JPL92-009 8022735-38 (Water)

Date Sampled: 02/06/08 10:10

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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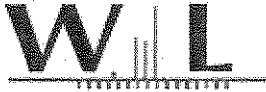
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-007 8022735-39 (Water)

Date Sampled: 02/06/08 10:26

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	9.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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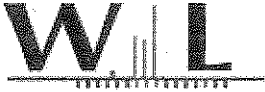
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-001 8022735-40 (Water)

Date Sampled: 02/06/08 11:48

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

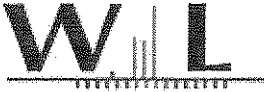
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Date Reported: 03/11/08 12:32

JPL92-002 8022735-41 (Water)

Date Sampled: 02/06/08 12:16

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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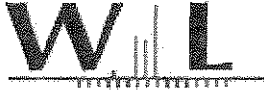
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JPL93-005 8022735-42 (Water)

Date Sampled: 02/07/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	25	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

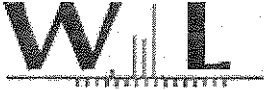
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Date Reported: 03/11/08 12:32

JPL93-006 8022735-43 (Water)

Date Sampled: 02/07/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	13	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

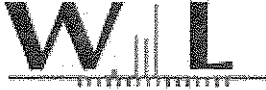
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Date Reported: 03/11/08 12:32

JPL93-002 8022735-44 (Water)

Date Sampled: 02/07/08 08:21

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

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Date Reported: 03/11/08 12:32

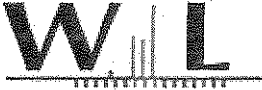
JPL93-003 8022735-45 (Water)

Date Sampled: 02/07/08 08:54

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	23	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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Report ID: 8022735  
 Project ID: JPL/EPTM

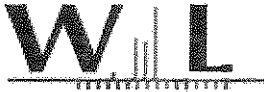
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JPL93-007 8022735-46 (Water)

Date Sampled: 02/07/08 09:34

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

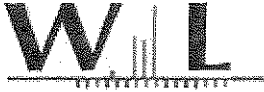
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Date Reported: 03/11/08 12:32

JPL93-004 8022735-47 (Water)

Date Sampled: 02/07/08 09:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	12	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL94-002 8022735-48 (Water)

Date Sampled: 02/08/08 08:01

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	

**PACE ANALYTICAL SERVICES, INC.**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL91**

**March 17, 2008**

**Pace Analytical Services, Inc.**  
 940 S. Harney  
 Seattle, WA 98108

To: Battelle  
 Project Name: JPL Groundwater  
 SDG No.: JPL91  
 Date of Report: March 17, 2008

**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>Pace Sample Identification</u>	<u>Testing Analytical Request</u>
MW-3-4	JPL91-001	VOA/MET/PER
MW-3-3	JPL91-002	VOA/MET/PER
MW-3-2	JPL91-003	VOA/MET/PER
MW-4-3	JPL91-004	VOA/MET/PER
MW-4-2	JPL91-005	VOA/MET/PER
MW-4-1	JPL91-006	VOA/MET/PER
DUPE-2-IQ08	JPL91-007	VOA/MET/PER
EB-8-2/5/08	JPL91-008	VOA/MET/PER
TB-8-2/5/08	JPL91-009	VOA

**Analytical Request Key:**

VOA = Volatiles (524.2)  
 MET = Chromium (200.8)  
 PER = Perchlorate (314.0) Subcontracted to Weck Laboratories

Summary of NELAC test accreditation

<b>Determination</b>	<b>NELAC approved</b>
TurMet for 200.7/200.8 TurMet	NO
200.8 Total Cr	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.  
 One of three volatiles bottles submitted for MW-3-3 contained bubbles of less than 1/4 inch in size.  
 One of two volatiles bottles submitted for TB-8-2/5/08 contained bubbles of less than 1/4 inch in size.

**Pace Analytical Services, Inc.**  
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

Analysis of the initial calibration yielded %RSD values for several analytes that exceeded 15% in the ICAL performed 02/04/2008. 1,2,3-trichlorobenzene was one of those analytes. An alternative curve fit was not used for it because the average of response factors was a better fit overall. Using an alternative curve fit for the other analytes that exceeded 15% resulted in  $r^2$  values greater than 0.990 ( $r$  values greater than 0.995) and were therefore compliant.

Method Blank

Analysis of the method blank performed on 2/8/2008 resulted in the detection of hexachlorobutadiene below  $\frac{1}{2}$  the reporting limit. The blank was compliant, so no further action was taken. Because the result was below  $\frac{1}{2}$  the reporting limit, it did not appear on the form 1 for the blank. This analyte was detected slightly above  $\frac{1}{2}$  the reporting limit in sample MW-3-2. The result was "B" flagged to denote the presence of hexachlorobutadiene in the associated method blank analysis.

Quality Control Analysis:

MS/MSD analyses were not performed due to insufficient sample volume. All spiking analytes in the blank spike analysis recovered within 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:**

Pace 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 LCSD, S021208ICPMSW02D, percent recovery for chromium exceeded the upper control limits of 80-120%. The LCS, S021208ICPMSW02, recovery for chromium was within these control limits, therefore no further corrective action was required. All relevant data have been flagged with an "3" on Forms 7C.

The serial dilution for the element chromium did not agree within 10% of the original determination after correction for dilution for sample MW-3-4. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms 1 and 9.

**Pace Analytical Services, Inc.**

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.
  - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- 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.
  - Z Denotes data deemed unusable by the analyst.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.


Pace Analytical Services, Inc.  
940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. 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

3/18/08  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

3/17/08  
(DATE)

*HOW TO CONTACT US:*

All Pace Analytical Services, Inc. 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, Pace 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.

**Pace Analytical Services, Inc.**  
940 S. Harney  
Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies

**LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG**

Sample ID (SDG-Mtx #)	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
WD JPL91-001	02/06/2008 08:30 AM	02/05/2008 10:50 AM	MW-3-4	IN	IN	IN	IN
WD JPL91-002	02/06/2008 08:30 AM	02/05/2008 11:22 AM	MW-3-3	IN	IN	IN	IN
WD JPL91-003	02/06/2008 08:30 AM	02/05/2008 11:49 AM	MW-3-2	IN	IN	IN	IN
WD JPL91-004	02/06/2008 08:30 AM	02/05/2008 07:42 AM	MW-4-3	IN	IN	IN	IN
WD JPL91-005	02/06/2008 08:30 AM	02/05/2008 08:18 AM	MW-4-2	IN	IN	IN	IN
WD JPL91-006	02/06/2008 08:30 AM	02/05/2008 08:53 AM	MW-4-1	IN	IN	IN	IN
WD JPL91-007	02/06/2008 08:30 AM	02/05/2008 12:00 AM	DUPE-2-1008	IN	IN	IN	IN
WD JPL91-008	02/06/2008 08:30 AM	02/05/2008 08:40 AM	EB-8-2/5/08	IN	IN	IN	IN
WD JPL91-009	02/06/2008 08:30 AM	02/05/2008 12:00 AM	TB-8-2/5/08			IN	

Approved By:  
Notes:

On:

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

**LEGEND:** -:Started, +:Completed, IN:Logged In, P:Preparation, A:Analysis, X:Cancelled, PL:Pre-logged  
Matrices: Water=WD

FORM LTL-PM-8.0

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

0174

COMPANY: BATTLE  
 ADDRESS: 3992 OLD TOWN AVE. C-205  
SAV BIELLO, CA 92110  
 ATTENTION: DAVID CONNER  
 PROJECT NAME: SPL GW MON 1808  
 PROJECT CONTACT: DAVID CONNER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/P.O. NO.: 6486090 / 214319

CHAIN OF CUSTODY RECORD

43094

SDG # SPL 91

PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_

SUBMITTED AT: \_\_\_\_\_

940 South Haney St, Seattle, WA 98108 (206) 767-5060 FAX 767-5063  
 1106 Ledwith Ave, Yakima, WA 98902 (509) 249-4695 FAX 452-1265



MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS
	<u>VOL (524.2)</u>
	<u>TOTAL CG (200.8)</u>
	<u>CG/4 - (514.0)</u>

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

LAB SAM	SAMPLE ID / LOCATION	DATE	TIME															
1	MW-3-4	2/5/08	1050	W	5	X	X	X										
2	MW-3-3		1122			X	X	X										
3	MW-3-2		1149			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 analyzed hold time remaining. Please contact the laboratory for further information.

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)

DATE TIME

RECEIVED BY (SIGN AND PRINT)

DATE TIME

NAME: BATTLE  
 ATTN: GERALD TOMPKINS

ADDRESS: SOS KING AVE.  
 CITY, STATE, ZIP: COLUMBIAS, OR 97201

\* 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

RELINQUISHED BY (SIGN AND PRINT): [Signature]  
 NAME: MAURO MENDOZA

DATE TIME: 2/5/08  
1300

RECEIVED BY (SIGN AND PRINT): [Signature]  
 NAME: Kristin Klein

DATE TIME: 2/08  
0820

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

COMPANY: BATTELLE  
 ADDRESS: 3990 OLD TRAW AVE, C-205  
SAV BEGAO, CA 92110  
 ATTENTION: DAVID CONNER  
 PROJECT NAME: JPL GW MON 1008  
 PROJECT CONTACT: DAVID CONNER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/P.O. NO.: 6486090/214319

CHAIN OF CUSTODY RECORD SDG # JPL91  
 43095 PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_ SUBMITTED AT:  940 South Haney St, Seattle, WA 98108 (206) 767-5060 FAX 767-5065  
 1106 Ledwith Ave, Yakima, WA 98902 (509) 248-4695 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY \_\_\_\_\_

NO. OF CONTAINERS

VOL (524.2)

TOTAL W (200.8)

1104 (314.0)

2

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

LAB #/A	SAMPLE ID / LOCATION	DATE	TIME	W	S	X	X	X	X	X	X	X	X	X	X	X	X	X
4	MW-4-3	2/5/08	742			X	X	X	X									
5	MW-4-2		818			X	X	X										
6	MW-4-1		853			X	X	X										
7	DATE - 2 - 1/08					X	X	X										
8	E13-8-215/08		840			X	X	X										
9	T13-8-2/5/08					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.

RELINQUISHED BY (SIGN AND PRINT) Max Munk / Max Munk

NAME: BATTELLE ADDRESS: 505 KINL AVE.  
 ATTN: CECILD TAMPPLIS CITY, STATE, ZIP: COLUMBIAS OH 43201

DATE: 2/5/08 TIME: 1300 RECEIVED BY (SIGN AND PRINT) W. Kristinklen

DATE: 2.6.08 TIME: 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: \_\_\_\_\_

CUSTODY SEAL:  Y  N  N/A

**FORM SUMMARY**

SDG # JPL91

Volatiles Analysis

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL91-001  
 Lab File ID: Y0207022.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/07/2008 15:29  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.30	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



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL91-001  
 Lab File ID: Y0207022.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/07/2008 15:29  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL91-001  
 Lab File ID: Y0207022.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/07/2008 15:29  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-3-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL91-002  
 Lab File ID: Y0207023.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/07/2008 15:53  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL91-002  
 Lab File ID: Y0207023.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/07/2008 15:53  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL91-002  
 Lab File ID: Y0207023.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/07/2008 15:53  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-3-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DE-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-003  
 Lab File ID: Y0208016.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/08/2008 12:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <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	0.89	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.92	
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	0.89	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-2

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL91

Run Sequence: R025745

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL91-003

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

Lab File ID: Y0208016.D

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

Date Collected: 02/05/2008

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

Date/Time Analyzed: 02/08/2008 12:42

GC Column: DB-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	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3-2

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL91

Run Sequence: R025745

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL91-003

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

Lab File ID: Y0208016.D

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

Date Collected: 02/05/2008

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

Date/Time Analyzed: 02/08/2008 12:42

GC Column: DB-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: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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	0.28	JB
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-4-3

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL91

Run Sequence: R025745

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL91-004

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

Lab File ID: Y0208017.D

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

Date Collected: 02/05/2008

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

Date/Time Analyzed: 02/08/2008 13:07

GC Column: DB-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: <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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-004  
 Lab File ID: Y0208017.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/08/2008 13:07  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.39	J
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	2.0	
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	0.59	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-3

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL91

Run Sequence: R025745

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL91-004

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

Lab File ID: Y0208017.D

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

Date Collected: 02/05/2008

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

Date/Time Analyzed: 02/08/2008 13:07

GC Column: DB-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: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-4-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-005  
 Lab File ID: Y0208018.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/08/2008 13:32  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <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	0.29	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	0.32	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	0.88	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-005  
 Lab File ID: Y0208018.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/08/2008 13:32  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.49	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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-005  
 Lab File ID: Y0208018.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/08/2008 13:32  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-4-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-006  
 Lab File ID: Y0208019.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/08/2008 13:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-006  
 Lab File ID: Y0208019.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/08/2008 13:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-006  
 Lab File ID: Y0208019.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/08/2008 13:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

DUPE-2-IQ08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-007  
 Lab File ID: Y0208020.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/08/2008 14:21  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-2-IQ08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-007  
 Lab File ID: Y0208020.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/08/2008 14:21  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-2-IQ08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL91

Run Sequence: R025745

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL91-007

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

Lab File ID: Y0208020.D

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

Date Collected: 02/05/2008

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

Date/Time Analyzed: 02/08/2008 14:21

GC Column: DB-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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

EB-8-2/5/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-008  
 Lab File ID: Y0208021.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/08/2008 14:46  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-8-2/5/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-008  
 Lab File ID: Y0208021.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/08/2008 14:46  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-8-2/5/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-008  
 Lab File ID: Y0208021.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/08/2008 14:46  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-8-2/5/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL91

Run Sequence: R025729

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL91-009

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

Lab File ID: Y0207015.D

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

Date Collected: 02/05/2008

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

Date/Time Analyzed: 02/07/2008 12:36

GC Column: DB-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	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



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-8-2/5/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL91-009  
 Lab File ID: Y0207015.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/07/2008 12:36  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-8-2/5/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL91  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL91-009  
 Lab File ID: Y0207015.D  
 Date Collected: 02/05/2008  
 Date/Time Analyzed: 02/07/2008 12:36  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-3-4

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL91

Run Sequence: R025729

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL91-001

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

Lab File ID: Y0207022.D

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

Date Collected: 02/05/2008

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

Date Analyzed: 02/07/2008

GC Column: DB-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

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-3-3

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL91  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025729  
 Lab Sample ID: JPL91-002  
 Lab File ID: Y0207023.D  
 Date Collected: 02/05/2008  
 Date Analyzed: 02/07/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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.: JPL91  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-003  
 Lab File ID: Y0208016.D  
 Date Collected: 02/05/2008  
 Date Analyzed: 02/08/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-4-3

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL91  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-004  
 Lab File ID: Y0208017.D  
 Date Collected: 02/05/2008  
 Date Analyzed: 02/08/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-4-2

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL91

Run Sequence: R025745

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL91-005

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

Lab File ID: Y0208018.D

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

Date Collected: 02/05/2008

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

Date Analyzed: 02/08/2008

GC Column: DB-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

	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.: JPL91  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025745  
 Lab Sample ID: JPL91-006  
 Lab File ID: Y0208019.D  
 Date Collected: 02/05/2008  
 Date Analyzed: 02/08/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
ug/L

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



1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUPE-2-IQ08

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL91

Run Sequence: R025745

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL91-007

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

Lab File ID: Y0208020.D

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

Date Collected: 02/05/2008

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

Date Analyzed: 02/08/2008

GC Column: DB-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

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-8-2/5/08

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL91

Run Sequence: R025745

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL91-008

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

Lab File ID: Y0208021.D

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

Date Collected: 02/05/2008

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

Date Analyzed: 02/08/2008

GC Column: DB-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

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-8-2/5/08

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL91

Run Sequence: R025729

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL91-009

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

Lab File ID: Y0207015.D

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

Date Collected: 02/05/2008

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

Date Analyzed: 02/07/2008

GC Column: DB-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

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

**FORMS SUMMARY**

**JPL91**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-3-4

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL91

Matrix (soil/water): Water

Lab Sample ID: JPL91-001

Level (low/med): LOW

Date Received: 02/06/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	7.23		E	M	R025853

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

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

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

Date Printed: 2/21/2008 16:52

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-3-3

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL91

Matrix (soil/water): Water

Lab Sample ID: JPL91-002

Level (low/med): LOW

Date Received: 02/06/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	5.99		E	M	R025853

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

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

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

Date Printed: 2/21/2008 16:52

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-3-2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL91

Matrix (soil/water): Water

Lab Sample ID: JPL91-003

Level (low/med): LOW

Date Received: 02/06/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	7.63		E	M	R025853

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

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

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

Date Printed: 2/21/2008 16:52

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-4-3

Lab Name: Pace Analytical ServicesContract: JPL Groundwater MonitorinLab Code: PACESDG No.: JPL91Matrix (soil/water): WaterLab Sample ID: JPL91-004Level (low/med): LOWDate Received: 02/06/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U		M	R025853

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: NoComment \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date Printed: 2/21/2008 16:52



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-4-2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL91

Matrix (soil/water): Water

Lab Sample ID: JPL91-005

Level (low/med): LOW

Date Received: 02/06/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.07		E	M	R025853

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

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

Comment \_\_\_\_\_  
 \_\_\_\_\_  
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Date Printed: 2/21/2008 16:52

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-4-1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL91

Matrix (soil/water): Water

Lab Sample ID: JPL91-006

Level (low/med): LOW

Date Received: 02/06/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	8.24		E	M	R025853

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

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

Comment \_\_\_\_\_  
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Date Printed: 2/21/2008 16:52

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-2-IQ08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL91

Matrix (soil/water): Water

Lab Sample ID: JPL91-007

Level (low/med): LOW

Date Received: 02/06/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	7.97		E	M	R025853

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

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

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

Date Printed: 2/21/2008 16:52

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-8-2/5/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL91

Matrix (soil/water): Water

Lab Sample ID: JPL91-008

Level (low/med): LOW

Date Received: 02/06/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U	E	M	R025853

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

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

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

Date Printed: 2/21/2008 16:52

## **Perchlorate Data**

### **Subcontracted to Weck Laboratories**

**JPL89  
JPL90  
JPL91  
JPL92  
JPL93  
JPL94  
EPTM18**

## QA/OC Data Package

### EPA Method 314 – Perchlorate

Lab ID number: 8022735 (01-14,15-20,22-24,26,27,32-34)

#### 1. Case Narrative

The samples were received on ice and they were in good condition. The temperature upon receipt at the laboratory was 2.3°C. Due to autosampler malfunction, samples 8022735-01 thru -08 (Weck Lab IDs) were analyzed one day past hold time. All other samples were completed within holding time. Also, Weck Lab IDs did not numerically correspond directly to Client's sample IDs, so samples -01 thru -08 were not run in order. All QA/QC determinations were within acceptance ranges.

The following acronyms are used in this data package:

IPC: Instrument Performance Check, is a calibration check standard prepared in a matrix of high conductivity. It defines the highest background that a sample can have to be analyzed directly; samples with higher backgrounds need to be diluted.

IPC: Instrument Performance Check prepared with high conductivity matrix (20 ppb).

LRB: Laboratory Reagent Blank or Method Blank.

CCV: Continuing Calibration Check Standard at low-level (2 ppb) and mid-level (20 ppb or 40 ppb).

Note: CCVs start with 2 ppb, then alternate between 20 and 40 ppb through the batch.

#### 2. QC Summaries

See Quality Control Report

#### 3. Sample Data

3.1 Analytical results summary: see Certificate of Analysis.

3.2 Chromatograms, quantitation reports and injection log for samples and QC runs for the batch: See Appendix 1.

3.3 Chain of custody record: A copy is included with the Certificate of Analysis.

3.4 Copies of bench sheets and secondary review checklist: Appendix 2.

#### 4. Calibration Data

4.1 Initial Calibration summary and chromatograms: See Appendix 3.

4.2 Continuing calibration summary and chromatograms: See Appendix 1.

5. Raw Data

- 5.1 Chromatograms and quantitation for MS/MSD and LCS: See Appendix 1.
- 5.2 Bench sheets: See Appendix 2.

6. Standards Preparation Records

- 6.1 See Appendix 4 for copies of standards and solutions preparation

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: **Pace Analytical** Address: **940 S. Havens St. Seattle, WA 98108** Email To: **Karvag@pacelabs.com** Phone: **206-461-1011** Fax: **206-461-1012** Requested Due Date/TAT: \_\_\_\_\_

Section B Required Project Information: Report To: **Kara Godineaux** Copy To: \_\_\_\_\_ Purchase Order No.: \_\_\_\_\_ Project Name: **SPL / EPTM** Project Number: \_\_\_\_\_

Section C Invoice Information: Attention: **Kara Godineaux** Company Name: **Pace Analytical** Address: \_\_\_\_\_ Pace Quote #: \_\_\_\_\_ Pace Project Manager: **Kara Godineaux** Pace Profile #: \_\_\_\_\_

REGULATORY AGENCY: \_\_\_\_\_ NPDES: \_\_\_\_\_ GROUND WATER: \_\_\_\_\_ DRINKING WATER: \_\_\_\_\_ UST: \_\_\_\_\_ RCRA: \_\_\_\_\_ OTHER: \_\_\_\_\_ Site Location: \_\_\_\_\_ STATE: \_\_\_\_\_

Section D Required Client Information	Matrix Codes MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis/Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
			COMPOSITE START	COMPOSITE END/AVG							
SPL 89-005			01/31	08:11		1		314.0 Perchlorate			MW-17-4
SPL 89-006			01/31	08:54		1					MW-17-3
SPL 89-008			01/31	09:11		1					EB-5-01/31/08
SPL 89-007			01/31	09:20		1					MW-17-2
SPL 89-001			01/31	10:50		1					MW-18-5
SPL 89-002			01/31	11:38		1					MW-18-4
SPL 89-003			01/31	12:20		1					MW-18-3
SPL 89-004			01/31	12:51		1					MW-18-2
SPL 90-001			02/01	09:01		1					MW-19-5
SPL 90-002			02/01	09:21		1					MW-19-4
SPL 90-003			02/01	09:45		1					MW-19-3
SPL 90-004			02/01	09:57		1					MW-19-2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Please also MS/MSD on	<i>[Signature]</i> / Pace	02-26-08		<i>[Signature]</i>	2/26/08	9:50
Samples: SPL 89-007						

Temp in °C \_\_\_\_\_

Received on Ice (Y/N) \_\_\_\_\_

Custody Sealed Cooler (Y/N) \_\_\_\_\_

Samples Intact (Y/N) \_\_\_\_\_

Sampler Name and Signature: \_\_\_\_\_

Print Name of Sampler: \_\_\_\_\_

Signature of Sampler: \_\_\_\_\_

Date Signed (MM/DD/YY): \_\_\_\_\_

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to this change of 1.5% per month for late payment and void within 90 days.



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



**Section A**  
 Required Client Information:  
 Company: **Pace Analytical**  
 Address: **940 S. Haney St.**  
 Email To: **Kara Godineaux**  
 Phone: **Seattle, WA 98108**  
 Fax: **Jackslabs.com**

**Section B**  
 Required Project Information:  
 Report To: **Kara Godineaux**  
 Copy To: **Kara Godineaux**  
 Purchase Order No.: **JPL/EPTM**  
 Project Name: **JPL/EPTM**  
 Project Number: **JPL/EPTM**

**Section C**  
 Invoice Information:  
 Attention: **Kara Godineaux**  
 Company Name: **Pace Analytical**  
 Address: **940 S. Haney St.**  
 Reference: **Kara Godineaux**  
 Pace Project Manager: **Kara Godineaux**  
 Pace Profile #:

Page: **2** of **6**

119480

**SUPER - 5**

**REGULATORY AGENCY:**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER

**Site Location:**  
 STATE: \_\_\_\_\_

ITEM #	Section D Required Client Information Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	Matrix Code	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis: Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl				
1	JPL90-006			02/01	10:20		1										EB-6-02/01/08
2	JPL90-005			02/01	10:25		1										MW-19-1
3	JPL90-008			02/04	07:47		1										MW-14-5
4	JPL90-009			02/04	08:09		1										MW-14-4
5	JPL90-010			02/04	08:34		1										MW-14-3
6	JPL90-011			02/04	09:05		1										MW-14-2
7	JPL90-013			02/04	09:26		1										ES-7-2/4/08
8	JPL90-012			02/04	09:40		1										MW-14-1
9	JPL91-007			02/05	00:00		1										DUPE-2-10/08
10	JPL91-004			02/05	07:42		1										MW-4-3
11	JPL91-005			02/05	08:18		1										MW-4-2
12	JPL91-008			02/05	08:40		1										ES-8-2/5/08

**ADDITIONAL COMMENTS:** Please do MS/MSD on samples: JPL90-012

**RELINQUISHED BY / AFFILIATION:** *Paula Swartz / Pace*      **DATE:** 02-26-08      **TIME:**

**ACCEPTED BY / AFFILIATION:** *Sam Johnson*      **DATE:** 2/27/08      **TIME:** 9:50

**SAMPLER NAME AND SIGNATURE:** \_\_\_\_\_  
**PRINT NAME OF SAMPLER:** \_\_\_\_\_  
**SIGNATURE OF SAMPLER:** \_\_\_\_\_  
**DATE Signed (MM/DD/YY):** \_\_\_\_\_

Temp In °C \_\_\_\_\_  
 Received on Ice (Y/N) \_\_\_\_\_  
 Custody Sealed Cooler (Y/N) \_\_\_\_\_  
 Samples Intact (Y/N) \_\_\_\_\_

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to the charges of 1.5% per month for any invoices not paid within 30 days.



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**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:

Company: Pace Analytical  
Address: 940 S. Harvey St.  
City: Seattle, WA Zip: 98108  
Phone: Karay G. Lawless, Lab. Coord.  
Fax: \_\_\_\_\_

**Section B**  
Required Project Information:

Report To: Kara Godineaux  
Copy To: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: JPL/EPTM  
Project Number: \_\_\_\_\_

**Section C**  
Invoice Information:

Attention: Kara Godineaux  
Company Name: Pace Analytical  
Address: \_\_\_\_\_  
Pace Quota: \_\_\_\_\_  
Reference: \_\_\_\_\_  
Pace Project Manager: Kara Godineaux  
Pace Profile #: \_\_\_\_\_

REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_

Page: 3 of 6  
119480

**Section D**  
Required Client Information  
Matrix Codes  
Drinking Water DW  
Water W/T  
Waste Water WW  
Product P  
Soil/Solid SL  
Oil OL  
Wipe WP  
Air AR  
Tissue TS  
Other OT

SAMPLE ID (A-Z, 0-9, /)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab ID
JPL91-001			02/05	08:53				1					MW-4-1
JPL91-002			02/05	10:50				1					MW-3-4
JPL91-003			02/05	11:22				1					MW-3-3
EPTM18-001			02/05	13:50				1					MW-3-2
EPTM18-003			02/05	14:00				1					GACIN
EPTM18-004			02/05	14:05				1					EBRTN
EPTM18-005			02/05	14:10				1					EBRTN DUP
JPL92-008			02/06	00:00				1					DUPE-3-1008
JPL92-003			02/06	07:56				1					MW-25-5
JPL92-004			02/06	08:32				1					MW-25-4
JPL92-005			02/06	09:01				1					MW-25-3

**ADDITIONAL COMMENTS**  
Please do MS/MSD on Cartr Strips / Pace

RELINQUISHED BY: Pace DATE: 02-26-08

ACCEPTED BY: Janey Gmbrl DATE: 2/27/08 9:50

REASON FOR REFUSAL: 27c

ORIGINAL

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_  
PRINT NAME OF SAMPLER: \_\_\_\_\_  
SIGNATURE OF SAMPLER: \_\_\_\_\_

DATE SIGNED (MM/DD/YY): \_\_\_\_\_

Temp in °C: \_\_\_\_\_

Received on Ice (Y/N): \_\_\_\_\_

Custody Sealed Cooler (Y/N): \_\_\_\_\_

Samples Intact (Y/N): \_\_\_\_\_

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to the charges of 1.5% per month for any invoices not paid within 90 days.



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: <u>PACE Analytical</u> address: <u>9405 Haines St.</u> <u>Seattle, WA 98108</u> mail To: <u>Karag@lavickslabs.com</u> phone: _____ Fax: _____ requested Due Date/TAT: _____		<b>Section B</b> Required Project Information: Report To: <u>Kara Godineaux</u> Copy To: _____ Purchase Order No.: _____ Project Name: <u>JPL/EPTM</u> Project Number: _____		<b>Section C</b> Invoice Information: Attention: <u>Kara Godineaux</u> Company Name: <u>Pace Analytical</u> Address: _____ Pace Order Reference: _____ Pace Project Manager: <u>Kara Godineaux</u> Pace Profile #: _____	
<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____		<b>Site Location</b> STATE: _____		Page: <u>4</u> of <u>6</u> 1194808 <b>Sub PER - 7</b>	

Section D Required Client Information	Matrix Codes MATRIX & CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS
				COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>				
1 JPL92-006	Drinking Water	DW		02/06	09:31		1										MW-25-2
2 JPL92-009	Water	WT		02/06	10:10		1										EB-9-2/6/08
3 JPL92-007	Waste Water	WW		02/06	10:26		1										MW-25-1
4 JPL92-001	Product	P		02/06	11:48		1										MW-26-2
5 JPL92-002	Soil/Soil	SL		02/06	12:16		1										MW-26-1
6 JPL93-005	Oil	OL		02/07	00:00		1										DUPE-4-DOB
7 JPL93-006	Wipe	WP		02/07	08:21		1										DUPE-5-DOB
8 JPL93-003	Air	AR		02/07	08:54		1										MW-24-3
9 JPL93-007	Tissue	TS		02/07	09:34		1										MW-24-2
10 JPL93-004	Other	OT		02/07	09:50		1										EB-10-2/7/08
2 JPL94-002				02/08	08:01		1										MW-24-1
																	MW-23-3

Additional Comments: Please do MS/MSD on

Relinquished By / Affiliation: Carl Strick / Pace DATE: 02-26-08 TIME: \_\_\_\_\_

Accepted By / Affiliation: Joanna Ginner DATE: 2/27/08 TIME: 9:50

Signature: JPL92-006

**ORIGINAL**

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_

PRINT Name of SAMPLER: \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_

DATE Signed (MM/DD/YY): \_\_\_\_\_

Temp in °C \_\_\_\_\_

Received on Ice (Y/N) \_\_\_\_\_

Custody Sealed Cooler (Y/N) \_\_\_\_\_

Samples Intact (Y/N) \_\_\_\_\_

Important Note: By sharing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-020REV.07. 15-MAY-2007



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
 Required Client Information:  
 Company: **Pace Analytical**  
 Address: **9410 S. Harvard St. Seattle, WA 98108**  
 Phone: **Karav@lavells-labs.com**  
 Fax: \_\_\_\_\_

**Section B**  
 Required Project Information:  
 Report To: **Kara Godineaux**  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: **JPL/EPTM**  
 Project Number: \_\_\_\_\_

**Section C**  
 Invoice Information:  
 Attention: **Kara Godineaux**  
 Company Name: **Pace Analytical**  
 Address: \_\_\_\_\_  
 City/State: \_\_\_\_\_  
 Reference: **Kara Godineaux**  
 Pace Project Manager: \_\_\_\_\_  
 Pace Profile #: \_\_\_\_\_

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_

Site Location: \_\_\_\_\_  
 STATE: \_\_\_\_\_

Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives:							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Face Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB							Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol				
JPL94-002	(A-Z, 0-9 / -)					02/08	08:01				1											MW-23-3
JPL94-003						02/08	08:31				1											MW-23-2
JPL94-005						02/08	08:49				1											EB-11-2/8/08
JPL94-006						02/08	08:56	CS022608			1											SB-1-10/08
JPL94-004						02/08	09:09				1											MW-23-1
JPL94-007						02/11	08:24				1											MW-5
JPL94-008						02/11	11:25				1											MW-6
JPL95-003						02/12	00:00				1											DUPE-6-10/08
JPL95-001						02/12	09:06				1											MW-7
JPL95-002						02/12	11:28				1											MW-6
EPTM19-001						02/12	13:00				1											GACTIN
EPTM19-003						02/12	13:15				1											FRIN

**ADDITIONAL COMMENTS**  
 Relinquished by Affiliation: \_\_\_\_\_  
 Accepted by Affiliation: **Samuel Miller** 2/22/08 9:30  
 Please do MS/MSD on **Carbon Shims / Pace**  
 Samples: **JPL94-004**

**ORIGINAL**

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_  
 PRINT NAME OF SAMPLER: \_\_\_\_\_  
 SIGNATURE OF SAMPLER: \_\_\_\_\_  
 DATE SIGNED (MM/DD/YY): \_\_\_\_\_

Temp in °C: \_\_\_\_\_  
 Received on Ice (Y/N): \_\_\_\_\_  
 Custody Sealed Cooler (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to the charges of 1.5% per month for any balances not paid within 30 days.

F-2011-0-07rev 07 15 Jan 2007



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

### Section A

Required Client Information:  
 Company: **Pace Analytical**  
 Address: **940 S. Harris St.**  
**Seattle, WA 98108**  
 Email To: **Karyn@paceanalytical.com**  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Requested Due Date/TAT: \_\_\_\_\_

### Section B

Report To: **Kara Godineaux**  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: **JPL / EPTM**  
 Project Number: \_\_\_\_\_

### Section C

Attention: **Kara Godineaux**  
 Company Name: **Pace Analytical**  
 Address: \_\_\_\_\_  
 Pace Quality Reference: \_\_\_\_\_  
 Pace Project Manager: **Kara Godineaux**  
 Pace Profile #: \_\_\_\_\_

REGULATORY AGENCY: \_\_\_\_\_  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
 Site Location: \_\_\_\_\_ STATE: \_\_\_\_\_  
 Requested Analysis Filtered: (Y/N) \_\_\_\_\_  
 Page: **6** of **6**  
**1194810**  
**Sub PER 9**

ITEM #	Section D Required Client Information	Matrix Codes MATRIX CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis Filtered: (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl				
1	EPTM 19-004		02/12	13:15		1								X		FBKINDUP
2	EPTM 19-005		02/12	13:30		1								X		FBKINDUP
3	JPL 96-003		02/13	00:00		1								X		DUPE-7-IC008
4	JPL 96-001		02/13	08:30		1								X		MW-13
5	JPL 96-002		02/13	10:53		1								X		MW-8
6	JPL 97-001		02/14	08:17		1								X		MW-10
7	EPTM 20-001		02/20	16:00		1								X		GACTN
8	EPTM 20-003		02/20	16:30		1								X		FBKINDUP
9	EPTM 20-004		02/20	16:30		1								X		FBKINDUP
10	PGMW080201-001		02/08	11:00		1								X		Cann. Sp. - 020808
11						1								X		
12						1								X		

Section D  
 Matrix Codes  
 Drinking Water: DW  
 Waste Water: WW  
 Product: P  
 Self-Solid: SL  
 Oil: OL  
 Wipe: WP  
 Air: AR  
 Tissue: TS  
 Other: OT

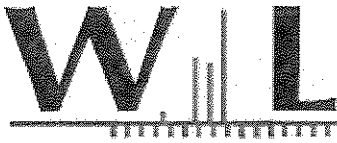
ADDITIONAL COMMENTS: **Call Site / Pace**

RELINQUISHED BY / AFFILIATION: **02-26-08**

ACCEPTED BY / AFFILIATION: **2/27/08 9:50**

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_  
 PRINT Name of SAMPLER: \_\_\_\_\_  
 SIGNATURE of SAMPLER: \_\_\_\_\_  
 DATE Signed (MM/DD/YY): \_\_\_\_\_

Temp In °C \_\_\_\_\_  
 Received on Ice (Y/N) \_\_\_\_\_  
 Custody Sealed Cooler (Y/N) \_\_\_\_\_  
 Samples Intact (Y/N) \_\_\_\_\_



14859 E. Clark Ave., Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634  
info@wecklabs.com www.wecklabs.com

**CERTIFICATE OF ANALYSIS**

**Client:** Pace Analytical Services  
940 South Harney Street  
Seattle, WA 98108  
Attention: Kara Godineaux  
  
Phone: (206) 957-2422  
Fax: (206) 767-5063

**Report Date:** 03/11/08 12:32  
**Received Date:** 02/27/08 09:50  
**Turn Around:** Normal

**Work Order #:** 8022735

**Client Project:** JPL/EPTM

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Kara Godineaux :

Enclosed are the results of analyses for samples received 02/27/08 09:50 with the Chain of Custody document. The samples were received in good condition. The samples were received at 2.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

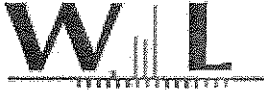
Kim G Tu

Project Manager



Page 1 of 55





Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

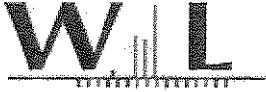
### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
JPL89-005	Client		8022735-01	Water	01/31/08 08:11
JPL89-006	Client		8022735-02	Water	01/31/08 08:54
JPL89-008	Client		8022735-03	Water	01/31/08 09:11
JPL89-007	Client		8022735-04	Water	01/31/08 09:20
JPL89-001	Client		8022735-05	Water	01/31/08 10:50
JPL89-002	Client		8022735-06	Water	01/31/08 11:38
JPL89-003	Client		8022735-07	Water	01/31/08 12:20
JPL89-004	Client		8022735-08	Water	01/31/08 12:51
JPL90-001	Client		8022735-09	Water	02/01/08 09:01
JPL90-002	Client		8022735-10	Water	02/01/08 09:21
JPL90-003	Client		8022735-11	Water	02/01/08 09:45
JPL90-004	Client		8022735-12	Water	02/01/08 09:59
JPL90-006	Client		8022735-13	Water	02/01/08 10:20
JPL90-005	Client		8022735-14	Water	02/01/08 10:25
JPL90-008	Client		8022735-15	Water	02/04/08 07:47
JPL90-009	Client		8022735-16	Water	02/04/08 08:09
JPL90-010	Client		8022735-17	Water	02/04/08 08:34
JPL90-011	Client		8022735-18	Water	02/04/08 09:05
JPL90-013	Client		8022735-19	Water	02/04/08 09:26
JPL90-012	Client		8022735-20	Water	02/04/08 09:40
JPL91-007	Client		8022735-21	Water	02/05/08 00:00
JPL91-004	Client		8022735-22	Water	02/05/08 07:42
JPL91-005	Client		8022735-23	Water	02/05/08 08:18
JPL91-008	Client		8022735-24	Water	02/05/08 08:40
JPL91-006	Client		8022735-25	Water	02/05/08 08:53
JPL91-001	Client		8022735-26	Water	02/05/08 10:50
JPL91-002	Client		8022735-27	Water	02/05/08 11:22
JPL91-003	Client		8022735-28	Water	02/05/08 11:49
EPTM18-001	Client		8022735-29	Water	02/05/08 13:50
EPTM18-003	Client		8022735-30	Water	02/05/08 14:00
EPTM18-004	Client		8022735-31	Water	02/05/08 14:05

Weck Laboratories, Inc  
Kim G Tu, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**Sub PER - 11**



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

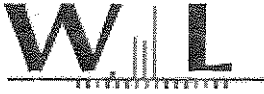
Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
EPTM18-005	Client		8022735-32	Water	02/05/08 14:10
JPL92-008	Client		8022735-33	Water	02/06/08 00:00
JPL92-003	Client		8022735-34	Water	02/06/08 07:56
JPL92-004	Client		8022735-35	Water	02/06/08 08:32
JPL92-005	Client		8022735-36	Water	02/06/08 09:01
JPL92-006	Client		8022735-37	Water	02/06/08 09:31
JPL92-009	Client		8022735-38	Water	02/06/08 10:10
JPL92-007	Client		8022735-39	Water	02/06/08 10:26
JPL92-001	Client		8022735-40	Water	02/06/08 11:48
JPL92-002	Client		8022735-41	Water	02/06/08 12:16
JPL93-005	Client		8022735-42	Water	02/07/08 00:00
JPL93-006	Client		8022735-43	Water	02/07/08 00:00
JPL93-002	Client		8022735-44	Water	02/07/08 08:21
JPL93-003	Client		8022735-45	Water	02/07/08 08:54
JPL93-007	Client		8022735-46	Water	02/07/08 09:34
JPL93-004	Client		8022735-47	Water	02/07/08 09:50
JPL94-002	Client		8022735-48	Water	02/08/08 08:01





Weck Laboratories, Inc.  
 14859 E. Clark Ave.  
 Industry, CA 91745  
 Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
 940 South Harney Street  
 Seattle WA, 98108

Report ID: 8022735  
 Project ID: JPL/EPTM

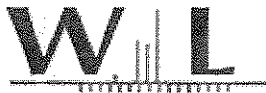
Date Received: 02/27/08 09:50  
 Date Reported: 03/11/08 12:32

JPL89-005 8022735-01 (Water)

Date Sampled: 01/31/08 08:11

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	1.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04, J



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Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

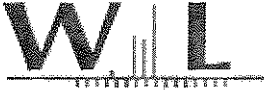
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JPL89-006 8022735-02 (Water)

Date Sampled: 01/31/08 08:54

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	24	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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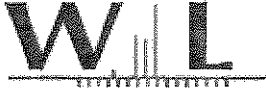
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JPL89-008 8022735-03 (Water)

Date Sampled: 01/31/08 09:11

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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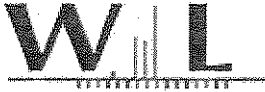
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JPL89-007 8022735-04 (Water)

Date Sampled: 01/31/08 09:20

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	8.8	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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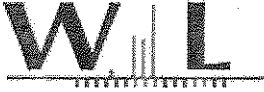
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JPL89-001 8022735-05 (Water)

Date Sampled: 01/31/08 10:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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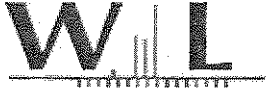
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JPL89-002 8022735-06 (Water)

Date Sampled: 01/31/08 11:38

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	28	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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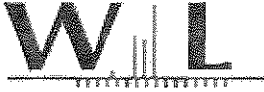
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JPL89-003 8022735-07 (Water)

Date Sampled: 01/31/08 12:20

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	29	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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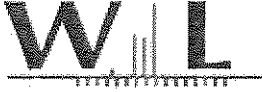
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Date Sampled: 01/31/08 12:51

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.98	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04, J





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Project ID: JPL/EPTM

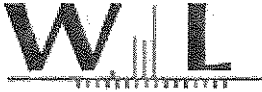
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JPL90-001 8022735-09 (Water)

Date Sampled: 02/01/08 09:01

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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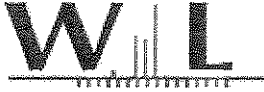
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JPL90-002 8022735-10 (Water)

Date Sampled: 02/01/08 09:21

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	1.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	J



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Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL90-003 8022735-11 (Water)

Date Sampled: 02/01/08 09:45

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	7.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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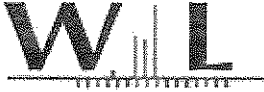
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JPL90-004 8022735-12 (Water)

Date Sampled: 02/01/08 09:59

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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 Project ID: JPL/EPTM

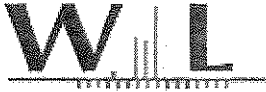
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JPL90-006 8022735-13 (Water)

Date Sampled: 02/01/08 10:20

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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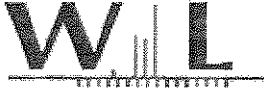
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JPL90-005 8022735-14 (Water)

Date Sampled: 02/01/08 10:25

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	2.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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Project ID: JPL/EPTM

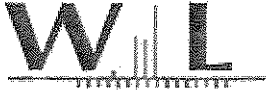
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Date Reported: 03/11/08 12:32

JPL90-008 8022735-15 (Water)

Date Sampled: 02/04/08 07:47

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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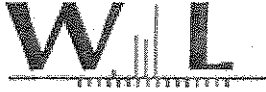
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Date Sampled: 02/04/08 08:09

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.5	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	





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Report ID: 8022735  
 Project ID: JPL/EPTM

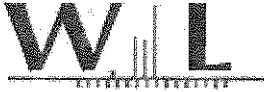
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JPL90-010 8022735-17 (Water)

Date Sampled: 02/04/08 08:34

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	6.6	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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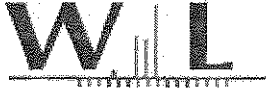
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JPL90-011 8022735-18 (Water)

Date Sampled: 02/04/08 09:05

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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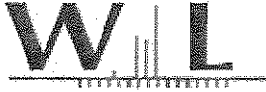
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JPL90-013 8022735-19 (Water)

Date Sampled: 02/04/08 09:26

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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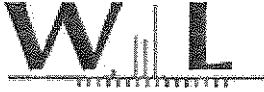
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JPL90-012 8022735-20 (Water)

Date Sampled: 02/04/08 09:40

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.3	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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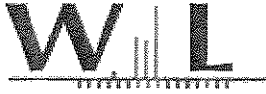
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Date Reported: 03/11/08 12:32

JPL91-007 8022735-21 (Water)

Date Sampled: 02/05/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	100	0.90	ug/l	4.0	2	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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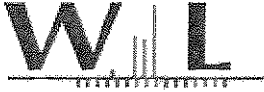
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JPL91-004 8022735-22 (Water)

Date Sampled: 02/05/08 07:42

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.74	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	J



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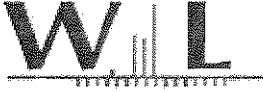
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JPL91-005 8022735-23 (Water)

Date Sampled: 02/05/08 08:18

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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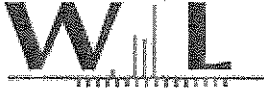
JPL91-008 8022735-24 (Water)

Date Sampled: 02/05/08 08:40

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	





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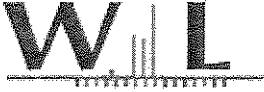
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JPL91-006 8022735-25 (Water)

Date Sampled: 02/05/08 08:53

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	100	0.90	ug/l	4.0	2	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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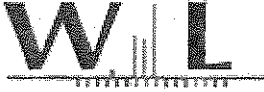
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL91-001 8022735-26 (Water)

Date Sampled: 02/05/08 10:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

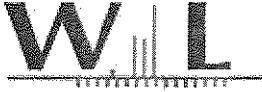
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Date Reported: 03/11/08 12:32

JPL91-002 8022735-27 (Water)

Date Sampled: 02/05/08 11:22

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

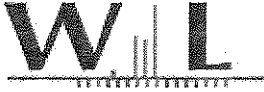
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Date Reported: 03/11/08 12:32

JPL91-003 8022735-28 (Water)

Date Sampled: 02/05/08 11:49

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	240	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

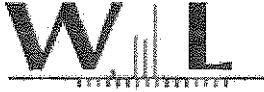
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Date Reported: 03/11/08 12:32

EPTM18-001 8022735-29 (Water)

Date Sampled: 02/05/08 13:50

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	260	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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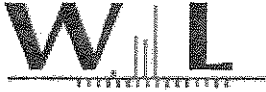
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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EPTM18-003 8022735-30 (Water)

Date Sampled: 02/05/08 14:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	310	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

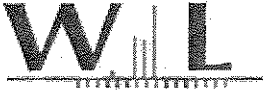
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Date Reported: 03/11/08 12:32

EPTM18-004 8022735-31 (Water)

Date Sampled: 02/05/08 14:05

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	300	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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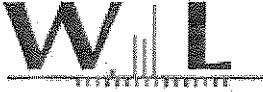
EPTM18-005 8022735-32 (Water)

Date Sampled: 02/05/08 14:10

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	





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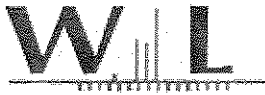
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-008 8022735-33 (Water)

Date Sampled: 02/06/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	10	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

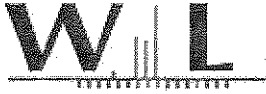
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL92-003 8022735-34 (Water)

Date Sampled: 02/06/08 07:56

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.80	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	J



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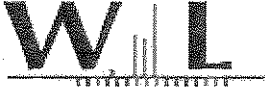
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-004 8022735-35 (Water)

Date Sampled: 02/06/08 08:32

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	8.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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 Seattle WA, 98108

Report ID: 8022735  
 Project ID: JPL/EPTM

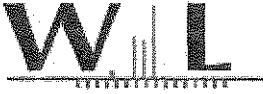
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 Date Reported: 03/11/08 12:32

JPL92-005 8022735-36 (Water)

Date Sampled: 02/06/08 09:01

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	11	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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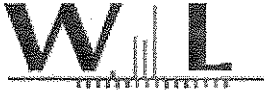
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-006 8022735-37 (Water)

Date Sampled: 02/06/08 09:31

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	15	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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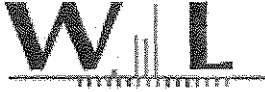
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-009 8022735-38 (Water)

Date Sampled: 02/06/08 10:10

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
 Project ID: JPL/EPTM

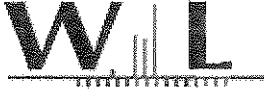
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 Date Reported: 03/11/08 12:32

JPL92-007 8022735-39 (Water)

Date Sampled: 02/06/08 10:26

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	9.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

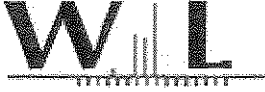
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Date Sampled: 02/06/08 11:48

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

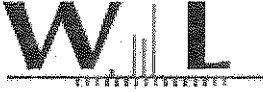
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Date Reported: 03/11/08 12:32

JPL92-002 8022735-41 (Water)

Date Sampled: 02/06/08 12:16

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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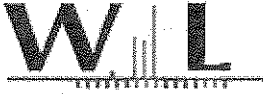
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JPL93-005 8022735-42 (Water)

Date Sampled: 02/07/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	25	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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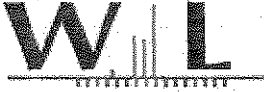
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL93-006 8022735-43 (Water)

Date Sampled: 02/07/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	13	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

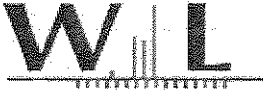
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Date Reported: 03/11/08 12:32

JPL93-002 8022735-44 (Water)

Date Sampled: 02/07/08 08:21

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

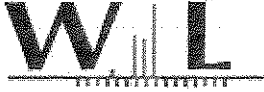
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Date Reported: 03/11/08 12:32

JPL93-003 8022735-45 (Water)

Date Sampled: 02/07/08 08:54

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	23	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

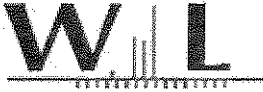
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JPL93-007 8022735-46 (Water)

Date Sampled: 02/07/08 09:34

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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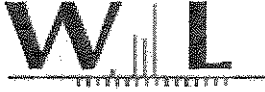
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL93-004 8022735-47 (Water)

Date Sampled: 02/07/08 09:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	12	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL94-002 8022735-48 (Water)

Date Sampled: 02/08/08 08:01

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



**PACE ANALYTICAL SERVICES, INC.**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL92**

**March 17, 2008**

**Pace Analytical Services, Inc.**  
 940 S. Harney  
 Seattle, WA 98108

To: Battelle  
 Project Name: JPL Groundwater  
 SDG No.: JPL92  
 Date of Report: March 17, 2008

**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>Pace Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-26-2	JPL92-001	VOA/MET/PER
MW-26-1	JPL92-002	VOA/MET/PER
MW-25-5	JPL92-003	VOA/MET/PER
MW-25-4	JPL92-004	VOA/MET/PER
MW-25-3	JPL92-005	VOA/MET/PER
MW-25-2	JPL92-006	VOA/MET/PER
MW-25-1	JPL92-007	VOA/MET/PER
DUPE-3-IQ08	JPL92-008	VOA/MET/PER
EB-9-2/6/08	JPL92-009	VOA/MET/PER
TB-9-2/6/08	JPL92-010	VOA

**Analytical Request Key:**

VOA = Volatiles (524.2)  
 MET = Chromium (200.8)  
 PER = Perchlorate (314.0) Subcontracted to Weck Laboratories

Summary of NELAC test accreditation

<b>Determination</b>	<b>NELAC approved</b>
TurMet for 200.7/200.8 TurMet	NO
200.8 Total Cr	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.  
 One of three volatiles bottles submitted for MW-26-2 contained bubbles of less than 1/4 inch in size.  
 One of three volatiles bottles submitted for MW-25-5 contained bubbles of less than 1/4 inch in size.

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

One of three volatiles bottles submitted for MW-25-1 contained bubbles of less than 1/4 inch in size. One of two volatiles bottles submitted for TB-9-2/6/08 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.

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

Analysis of the initial calibration yielded %RSD values for several analytes that exceeded 15% in the ICAL performed on 02/04/2008. 1,2,3-trichlorobenzene was one of those analytes. An alternative curve fit was not used for it because the average of response factors was a better overall fit. Using an alternative curve fit for the other analytes that exceeded 15% resulted in  $r^2$  values greater than 0.990 ( $r$  values greater than 0.995) and were therefore compliant.

**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.

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Seattle, WA 98108

**SPECIFIC REMARKS ON INORGANIC ANALYSES:**

Holding Time Compliance:

Pace 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 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.

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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.
  - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- 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.
  - Z Denotes data deemed unusable by the analyst.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. 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

3/18/08  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

3/17/08  
(DATE)

*HOW TO CONTACT US:*

All Pace Analytical Services, Inc. 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, Pace 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.

**Pace Analytical Services, Inc.**  
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Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies



<b>LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG</b>								
Mtx	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
WD	JPL92-001	02/07/2008 08:30 AM	02/06/2008 11:48 AM	MW-26-2	IN	IN	IN	IN
WD	JPL92-002	02/07/2008 08:30 AM	02/06/2008 12:16 PM	MW-26-1	IN	IN	IN	IN
WD	JPL92-003	02/07/2008 08:30 AM	02/06/2008 07:56 AM	MW-25-5	IN	IN	IN	IN
WD	JPL92-004	02/07/2008 08:30 AM	02/06/2008 08:32 AM	MW-25-4	IN	IN	IN	IN
WD	JPL92-005	02/07/2008 08:30 AM	02/06/2008 09:01 AM	MW-25-3	IN	IN	IN	IN
WD	*JPL92-006	02/07/2008 08:30 AM	02/06/2008 09:31 AM	MW-25-2	IN	IN	IN	IN
WD	JPL92-007	02/07/2008 08:30 AM	02/06/2008 10:26 AM	MW-25-1	IN	IN	IN	IN
WD	JPL92-008	02/07/2008 08:30 AM	02/06/2008 12:00 AM	DUPE-3-IQ08	IN	IN	IN	IN
WD	JPL92-009	02/07/2008 08:30 AM	02/06/2008 10:10 AM	EB-9-2/6/08	IN	IN	IN	IN
WD	JPL92-010	02/07/2008 08:30 AM	02/06/2008 12:00 AM	TB-9-2/6/08			IN	

Approved By:  
Notes:

On:

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

**LEGEND:** -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged  
**Matrices:** Water=WD

**FORM LTL-PM-8.0**



U195

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 CONNER  
 PROJECT NAME: SPL GW MON. 1908  
 PROJECT CONTACT: DAVID CONNER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/P.O. NO.: 6486090 / 214319

CHAIN OF CUSTODY RECORD

44229

SDG # JP192

PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_

SUBMITTED AT: \_\_\_\_\_

TESTS TO PERFORM

**Lauck's**  
 Testing Laboratories, Inc.  
 940 South Hamer St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063  
 1106 Ludwick Ave., Yakima, WA 98902 (509) 248-4895 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
	VOC (524.2)		
	TOTAL Cr (200.8)		
	CUA - (314.0)		

LAB. S#	SAMPLE ID / LOCATION	DATE	TIME	W	S	X	T	X						
3	MU-25-5	2/6/08	756	W	S	X	T	X						
4	MU-25-4		832		S	X	T	X						
5	MU-25-3		901		S	X	T	X						
6	MU-25-2		931		10	X	T	X						
7	MU-25-1		1026		5	X	T	X						
8	DUPE - 3 - 1808		-		5	X	T	X						
9	ER-9-2/6/08		1010		5	X	T	X						
10	TR-9-2/6/08		-		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:  
 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): Mauro Mendoza

NAME: BATTELLE ADDRESS: 505 KIVA AVE.  
 ATTN: GERALD TAMPKINS CITY, STATE, ZIP: COLUMBUS, OH 43201

RECEIVED BY (SIGN AND PRINT): Christi Krstinklein

FINANCE CHARGES AND/OR COLLECTION FEES MAY BE APPLIED TO DELINQUENT ACCOUNTS.

FINAL REPORT COPY

TURNAROUND REQUEST:  STD. 10-14 WORKING DAYS  
 \* 24-48 HRS. (100% SUR)  
 \* 5 DAYS (50% SUR)  
 OTHER: \_\_\_\_\_  
 TEMP. \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  N/A

**FORM SUMMARY**

SDG # JPL92

Volatiles Analysis

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-26-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-001  
 Lab File ID: Y0212016.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 13:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-26-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-001  
 Lab File ID: Y0212016.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 13:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-26-2

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL92

Run Sequence: R025836

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL92-001

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

Lab File ID: Y0212016.D

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

Date Collected: 02/06/2008

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

Date/Time Analyzed: 02/12/2008 13:56

GC Column: DB-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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-26-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-002  
 Lab File ID: Y0212017.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 14:20  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-26-1

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL92

Run Sequence: R025836

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL92-002

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

Lab File ID: Y0212017.D

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

Date Collected: 02/06/2008

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

Date/Time Analyzed: 02/12/2008 14:20

GC Column: DB-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
		<u>ug/L</u>	
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.37	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	1,1,1,2,2-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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-26-1

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL92

Run Sequence: R025836

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL92-002

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

Lab File ID: Y0212017.D

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

Date Collected: 02/06/2008

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

Date/Time Analyzed: 02/12/2008 14:20

GC Column: DB-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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-25-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-003  
 Lab File ID: Y0212018.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 14:45  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-5

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL92

Run Sequence: R025836

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL92-003

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

Lab File ID: Y0212018.D

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

Date Collected: 02/06/2008

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

Date/Time Analyzed: 02/12/2008 14:45

GC Column: DB-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	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-5

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-003  
 Lab File ID: Y0212018.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 14:45  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-25-4

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL92

Run Sequence: R025836

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL92-004

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

Lab File ID: Y0212019.D

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

Date Collected: 02/06/2008

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

Date/Time Analyzed: 02/12/2008 15:10

GC Column: DB-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	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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-4

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-004  
 Lab File ID: Y0212019.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 15:10  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-4

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL92

Run Sequence: R025836

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL92-004

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

Lab File ID: Y0212019.D

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

Date Collected: 02/06/2008

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

Date/Time Analyzed: 02/12/2008 15:10

GC Column: DB-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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-25-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-005  
 Lab File ID: Y0212020.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 15:35  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	1.0	
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	0.50	U
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-3

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-005  
 Lab File ID: Y0212020.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 15:35  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-3

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL92

Run Sequence: R025836

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL92-005

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

Lab File ID: Y0212020.D

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

Date Collected: 02/06/2008

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

Date/Time Analyzed: 02/12/2008 15:35

GC Column: DB-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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-25-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-006  
 Lab File ID: Y0212021.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 15:59  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-2

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL92

Run Sequence: R025836

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL92-006

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

Lab File ID: Y0212021.D

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

Date Collected: 02/06/2008

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

Date/Time Analyzed: 02/12/2008 15:59

GC Column: DB-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:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-2

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-006  
 Lab File ID: Y0212021.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 15:59  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-25-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-007  
 Lab File ID: Y0212022.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 16:24  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-007  
 Lab File ID: Y0212022.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 16:24  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-25-1

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-007  
 Lab File ID: Y0212022.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 16:24  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

DUPE-3-IQ08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-008  
 Lab File ID: Y0212023.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 16:49  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-3-IQ08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-008  
 Lab File ID: Y0212023.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 16:49  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-3-IQ08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-008  
 Lab File ID: Y0212023.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 16:49  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

EB-9-2/6/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-009  
 Lab File ID: Y0212013.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 12:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-9-2/6/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-009  
 Lab File ID: Y0212013.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 12:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-9-2/6/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-009  
 Lab File ID: Y0212013.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 12:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-9-2/6/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-010  
 Lab File ID: Y0212012.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 12:18  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
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



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-9-2/6/08

Lab Name: Laucks Testing Laboratories, Inc.  
 SDG No.: JPL92  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-010  
 Lab File ID: Y0212012.D  
 Date Collected: 02/06/2008  
 Date/Time Analyzed: 02/12/2008 12:18  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-9-2/6/08

Lab Name: Laucks Testing Laboratories, Inc.

Contract: JPL Groundwater Monitorin

SDG No.: JPL92

Run Sequence: R025836

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL92-010

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

Lab File ID: Y0212012.D

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

Date Collected: 02/06/2008

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

Date/Time Analyzed: 02/12/2008 12:18

GC Column: DB-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:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-26-2

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL92

Run Sequence: R025836

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL92-001

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

Lab File ID: Y0212016.D

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

Date Collected: 02/06/2008

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

Date Analyzed: 02/12/2008

GC Column: DB-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

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-26-1

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL92  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-002  
 Lab File ID: Y0212017.D  
 Date Collected: 02/06/2008  
 Date Analyzed: 02/12/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-25-5

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL92  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-003  
 Lab File ID: Y0212018.D  
 Date Collected: 02/06/2008  
 Date Analyzed: 02/12/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-25-4

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL92  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-004  
 Lab File ID: Y0212019.D  
 Date Collected: 02/06/2008  
 Date Analyzed: 02/12/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-25-3

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL92

Run Sequence: R025836

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL92-005

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

Lab File ID: Y0212020.D

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

Date Collected: 02/06/2008

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

Date Analyzed: 02/12/2008

GC Column: DB-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

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-25-2

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL92  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-006  
 Lab File ID: Y0212021.D  
 Date Collected: 02/06/2008  
 Date Analyzed: 02/12/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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.: JPL92  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-007  
 Lab File ID: Y0212022.D  
 Date Collected: 02/06/2008  
 Date Analyzed: 02/12/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-3-IQ08

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL92  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-008  
 Lab File ID: Y0212023.D  
 Date Collected: 02/06/2008  
 Date Analyzed: 02/12/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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.

EB-9-2/6/08

Lab Name: Laucks Testing Laboratories, Inc

Contract: JPL Groundwater Monitorin

SDG No.: JPL92

Run Sequence: R025836

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL92-009

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

Lab File ID: Y0212013.D

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

Date Collected: 02/06/2008

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

Date Analyzed: 02/12/2008

GC Column: DB-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

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-9-2/6/08

Lab Name: Laucks Testing Laboratories, Inc  
 SDG No.: JPL92  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Number TICs Found: 0

Contract: JPL Groundwater Monitorin  
 Run Sequence: R025836  
 Lab Sample ID: JPL92-010  
 Lab File ID: Y0212012.D  
 Date Collected: 02/06/2008  
 Date Analyzed: 02/12/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
ug/L

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

**FORMS SUMMARY**

**JPL92**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-26-2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL92

Matrix (soil/water): Water

Lab Sample ID: JPL92-001

Level (low/med): LOW

Date Received: 02/07/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	12.9		E	M	R025853

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

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

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

Date Printed: 2/25/2008 11:37

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-26-1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL92

Matrix (soil/water): Water

Lab Sample ID: JPL92-002

Level (low/med): LOW

Date Received: 02/07/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	14.2		E	M	R025853

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

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

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

Date Printed: 2/25/2008 11:37

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-25-5

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL92

Matrix (soil/water): Water

Lab Sample ID: JPL92-003

Level (low/med): LOW

Date Received: 02/07/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	4.72		E	M	R025853

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

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

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

Date Printed: 2/25/2008 11:37



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-25-4

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL92

Matrix (soil/water): Water

Lab Sample ID: JPL92-004

Level (low/med): LOW

Date Received: 02/07/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	11.1		E	M	R025853

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

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

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

Date Printed: 2/25/2008 11:37

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-25-3

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL92

Matrix (soil/water): Water

Lab Sample ID: JPL92-005

Level (low/med): LOW

Date Received: 02/07/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	10.5		E	M	R025853

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

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

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

Date Printed: 2/25/2008 11:37

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-25-2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL92

Matrix (soil/water): Water

Lab Sample ID: JPL92-006

Level (low/med): LOW

Date Received: 02/07/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	10.3		E	M	R025853

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

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

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

Date Printed: 2/25/2008 11:37

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-25-1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL92

Matrix (soil/water): Water

Lab Sample ID: JPL92-007

Level (low/med): LOW

Date Received: 02/07/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.05		E	M	R025853

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

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

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

Date Printed: 2/25/2008 11:37

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-3-IQ08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL92

Matrix (soil/water): Water

Lab Sample ID: JPL92-008

Level (low/med): LOW

Date Received: 02/07/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	8.49		E	M	R025853

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

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

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

Date Printed: 2/25/2008 11:37

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-9-2/6/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL92

Matrix (soil/water): Water

Lab Sample ID: JPL92-009

Level (low/med): LOW

Date Received: 02/07/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U	E	M	R025853

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

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

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

Date Printed: 2/25/2008 11:37

## **Perchlorate Data**

**Subcontracted to Weck Laboratories**

**JPL89  
JPL90  
JPL91  
JPL92  
JPL93  
JPL94  
EPTM18**

## QA/OC Data Package

### EPA Method 314 – Perchlorate

Lab ID number: 8022735 (01-14,15-20,22-24,26,27,32-34)

#### 1. Case Narrative

The samples were received on ice and they were in good condition. The temperature upon receipt at the laboratory was 2.3°C. Due to autosampler malfunction, samples 8022735-01 thru -08 (Weck Lab IDs) were analyzed one day past hold time. All other samples were completed within holding time. Also, Weck Lab IDs did not numerically correspond directly to Client's sample IDs, so samples -01 thru -08 were not run in order. All QA/QC determinations were within acceptance ranges.

The following acronyms are used in this data package:

IPC: Instrument Performance Check, is a calibration check standard prepared in a matrix of high conductivity. It defines the highest background that a sample can have to be analyzed directly; samples with higher backgrounds need to be diluted.

IPC: Instrument Performance Check prepared with high conductivity matrix (20 ppb).

LRB: Laboratory Reagent Blank or Method Blank.

CCV: Continuing Calibration Check Standard at low-level (2 ppb) and mid-level (20 ppb or 40 ppb).

Note: CCVs start with 2 ppb, then alternate between 20 and 40 ppb through the batch.

#### 2. QC Summaries

See Quality Control Report

#### 3. Sample Data

3.1 Analytical results summary: see Certificate of Analysis.

3.2 Chromatograms, quantitation reports and injection log for samples and QC runs for the batch: See Appendix 1.

3.3 Chain of custody record: A copy is included with the Certificate of Analysis.

3.4 Copies of bench sheets and secondary review checklist: Appendix 2.

#### 4. Calibration Data

4.1 Initial Calibration summary and chromatograms: See Appendix 3.

4.2 Continuing calibration summary and chromatograms: See Appendix 1.



5. Raw Data

- 5.1 Chromatograms and quantitation for MS/MSD and LCS: See Appendix 1.
- 5.2 Bench sheets: See Appendix 2.

6. Standards Preparation Records

- 6.1 See Appendix 4 for copies of standards and solutions preparation

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:

Company: **Pace Analytical**  
Address: **940 S. Havens St.**  
City: **Seattle, WA 98108**  
Phone: **Kavag@pacelabs.com**  
Fax: **206-461-1011**

**Section B**  
Required Project Information:

Report To: **Kara Godineaux**  
Copy To: **Kara Godineaux**  
Purchase Order No.: **JPL/EPTM**  
Project Name: **JPL/EPTM**  
Project Number: **JPL/EPTM**

**Section C**  
Invoice Information:

Attention: **Kara Godineaux**  
Company Name: **Pace Analytical**  
Address: **940 S. Havens St.**  
City: **Seattle, WA 98108**  
Phone: **206-461-1011**  
Fax: **206-461-1011**  
Project Manager: **Kara Godineaux**  
Project Profile #:

Page: **1** of **1**  
Lab ID: **1194806**  
REGULATORY AGENCY: **WA**  
REGULATORY AGENCY: **WA**  
GROUND WATER:  DRINKING WATER:   
USE:  OTHER:

Section D Required Client Information	Matrix Codes MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis/Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./Lab ID
			DATE	TIME							
JPL 89-005			01/31	08:11		1		314.0 Perchlorate			MW-17-4
JPL 89-006			01/31	08:54		1					MW-17-3
JPL 89-008			01/31	09:11		1					EB-5-01/31/08
JPL 89-007			01/31	09:20		1					MW-17-2
JPL 89-001			01/31	10:50		1					MW-18-5
JPL 89-002			01/31	11:38		1					MW-18-4
JPL 89-003			01/31	12:20		1					MW-18-3
JPL 89-004			01/31	12:51		1					MW-18-2
JPL 90-001			02/01	09:01		1					MW-19-5
JPL 90-002			02/01	09:21		1					MW-19-4
JPL 90-003			02/01	09:45		1					MW-19-3
JPL 90-004			02/01	09:57		1					MW-19-2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Please also MS/MSD on	<i>[Signature]</i> / Pace	02-26-08		<i>[Signature]</i>	02/26/08	9:50	
Samples: JPL 89-007							

**ORIGINAL**

SAMPLER NAME AND SIGNATURE: **[Signature]**  
PRINT Name of SAMPLER:  
SIGNATURE of SAMPLER:  
DATE signed (MM/DD/YY):

Temp in °C  
Received on Ice (Y/N)  
Custody Sealed Cooler (Y/N)  
Samples Intact (Y/N)

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to this change of 1.5% per month for late payment and void within 90 days.

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A** Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: **Pace Analytical** Report To: **Kara Godineaux** Attention: **Kara Godineaux** Page: **2** of **6**  
 Address: **940 S. Haney St.** Copy To: **Kara Godineaux** Company Name: **Pace Analytical** Reference: **119480**  
 Email To: **Kara@traceanalytical.com** Purchase Order No.: **JPL/LEPTM** Address: **Pace Analytical** Regulatory Agency: **NPDES**  **GROUND WATER**  **DRINKING WATER**  
 Phone: **206-835-8108** Project Name: **JPL/LEPTM** Reference: **Kara Godineaux**  **UST**  **RCRA**  **OTHER**  
 Requested Due Date/TAT: **JPL/LEPTM** Project Number: **JPL/LEPTM** Site Location: **STATE**

ITEM #	Section D Required Client Information Matrix Code MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Preservatives	Requested Analysis: Filtered (Y/N)	Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.							
				COMPOSITE START	COMPOSITE END/STOP															
				DATE	TIME	DATE	TIME													
1	JPL90-006			02/01	10:20								E8-6-02/01/08							
2	JPL90-005			02/01	10:25								MW-19-1							
3	JPL90-008			02/04	07:47								MW-14-5							
4	JPL90-009			02/04	08:09								MW-14-4							
5	JPL90-010			02/04	08:34								MW-14-3							
6	JPL90-011			02/04	09:05								MW-14-2							
7	JPL90-013			02/04	09:26								E8-7-2/4/08							
8	JPL90-012			02/04	09:40								MW-14-1							
9	JPL91-007			02/05	00:00								DUPE-2-10/08							
10	JPL91-004			02/05	07:42								MW-4-3							
11	JPL91-005			02/05	08:18								MW-4-2							
12	JPL91-008			02/05	08:40								E8-8-2/5/08							
ADDITIONAL COMMENTS													RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE		TIME	
Please do MS/MSD on samples: JPL90-012													Patti Swartz / Pace		Sundowner		2/2/08		9:50	

ORIGINAL

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_  
 PRINT NAME OF SAMPLER: \_\_\_\_\_  
 SIGNATURE OF SAMPLER: \_\_\_\_\_  
 DATE SIGNED (MM/DD/YY): \_\_\_\_\_

Temp in °C \_\_\_\_\_  
 Received on Ice (Y/N) \_\_\_\_\_  
 Custody Sealed Cooler (Y/N) \_\_\_\_\_  
 Samples Intact (Y/N) \_\_\_\_\_





# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: <u>PACE Analytical</u> address: <u>9405 Haines St.</u> <u>Seattle, WA 98108</u> mail To: <u>Karag@lavickslabs.com</u> phone: _____ Fax: _____ requested Due Date/TAT: _____		<b>Section B</b> Required Project Information: Report To: <u>Kara Godineaux</u> Copy To: _____ Purchase Order No.: _____ Project Name: <u>JPL/EPTM</u> Project Number: _____		<b>Section C</b> Invoice Information: Attention: <u>Kara Godineaux</u> Company Name: <u>Pace Analytical</u> Address: _____ Pace Order Reference: <u>Kara Godineaux</u> Pace Project Manager: _____ Pace Profile #: _____	
<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____		<b>Site Location</b> STATE: _____		Requested Analysis Filtered (Y/N)	

Section D Required Client Information	Matrix Codes MATRIX & CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS
				COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>				
1 JPL92-006	Drinking Water	DW		02/06	09:31		1										MW-25-2
2 JPL92-009	Water	WT		02/06	10:10		1										EB-9-2/6/08
3 JPL92-007	Waste Water	WW		02/06	10:26		1										MW-25-1
4 JPL92-001	Product	P		02/06	11:48		1										MW-26-2
5 JPL92-002	Soil/Soil	SL		02/06	12:16		1										MW-26-1
6 JPL93-005	Oil	OL		02/07	00:00		1										MW-24-1
7 JPL93-006	Wipe	WP		02/07	00:00		1										MW-24-2
8 JPL93-002	Air	AR		02/07	08:21		1										MW-24-3
9 JPL93-003	Other	OT		02/07	08:54		1										MW-24-2
10 JPL93-007				02/07	09:34		1										EB-10-2/7/08
11 JPL93-004				02/07	09:50		1										MW-24-1
12 JPL94-002				02/08	08:01		1										MW-23-3

Additional Comments: Please do MS/MSD on

Relinquished By / Affiliation: Carl Strick / Pace DATE: 02-26-08 TIME: \_\_\_\_\_

Accepted By / Affiliation: Joanna Ginner DATE: 2/27/08 TIME: 9:50

Signature: JPL92-006

ORIGINAL

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_

PRINT Name of SAMPLER: \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_

DATE Signed (MM/DD/YY): \_\_\_\_\_

Temp in °C \_\_\_\_\_

Received on Ice (Y/N) \_\_\_\_\_

Custody Sealed Cooler (Y/N) \_\_\_\_\_

Samples Intact (Y/N) \_\_\_\_\_

Important Note: By sharing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-020REV.07. 15-MAY-2007



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
 Required Client Information:  
 Company: **Pace Analytical**  
 Address: **9410 S. Harvard St.**  
 City: **Seattle, WA 98108**  
 Phone: **Karav@lavells-labs.com**  
 Fax: \_\_\_\_\_

**Section B**  
 Required Project Information:  
 Report To: **Kara Godineaux**  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: **JPL/EPTM**  
 Project Number: \_\_\_\_\_

**Section C**  
 Invoice Information:  
 Attention: **Kara Godineaux**  
 Company Name: **Pace Analytical**  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_  
 Zip: \_\_\_\_\_  
 Reference: **Kara Godineaux**  
 Pace Project Manager: \_\_\_\_\_  
 Pace Profile #: \_\_\_\_\_

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_

Site Location: \_\_\_\_\_  
 STATE: \_\_\_\_\_

Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives:							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
				COMPOSITE START	COMPOSITE END/GRAB							Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol			
JPL94-002	(A-Z, 0-9 / -)					02/08	08:01				1										
JPL94-003						02/08	08:31				1										
JPL94-005						02/08	08:49				1										
JPL94-006						02/08	08:56	08:49			1										
JPL94-004						02/08	09:09				1										
JPL94-007						02/11	08:24				1										
JPL94-008						02/11	11:25				1										
JPL95-003						02/12	00:00				1										
JPL95-001						02/12	09:06				1										
JPL95-002						02/12	11:28				1										
EPTM19-001						02/12	13:00				1										
EPTM19-003						02/12	13:15				1										

**ADDITIONAL COMMENTS**  
 Relinquished by Affiliation: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Accepted by Affiliation: **Samuel Miller**  
 Date: **02-26-08** Time: **9:30**  
 Please do MS/MSD on samples: **JPL94-004**

**ORIGINAL**

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_  
 PRINT NAME OF SAMPLER: \_\_\_\_\_  
 SIGNATURE OF SAMPLER: \_\_\_\_\_  
 DATE SIGNED (MM/DD/YY): \_\_\_\_\_

Temp in °C: \_\_\_\_\_  
 Received on Ice (Y/N): \_\_\_\_\_  
 Custody Sealed Cooler (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to the charges of 1.5% per month for any balances not paid within 30 days.

F-2011-0-07rev 07 15 Jan 2007



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:

Company: Pace Analytical  
 Address: 940 S. Harris St.  
Seattle, WA 98108  
 Email To: Karyn@paceanalytical.com  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Requested Due Date/TAT: \_\_\_\_\_

**Section B**  
Required Project Information:

Report To: Kara Godineaux  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: JPL / EPTM  
 Project Number: \_\_\_\_\_

**Section C**  
Invoice Information:

Attention: Kara Godineaux  
 Company Name: Pace Analytical  
 Address: \_\_\_\_\_  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: Kara Godineaux  
 Pace Profile #: \_\_\_\_\_

Page: 6 of 6  
 1194810  
 Sub PER 9

REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_

ITEM #	Section B Required Client Information	Matrix Codes MATRIX CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered: (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
			DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH					Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
1	EPTM 19-004		02/12	13:15		1									X	314.0 Perchlorate		FBKINDUP
2	EPTM 19-005		02/12	13:30		1									X			FBKINDUP
3	JPL 96-003		02/13	00:00		1									X			FBKINDUP
4	JPL 96-001		02/13	08:30		1									X			DUPE-7-IC008
5	JPL 96-002		02/13	10:53		1									X			MW-13
6	JPL 97-001		02/14	08:17		1									X			MW-8
7	EPTM 20-001		02/20	16:00		1									X			MW-10
8	EPTM 20-003		02/20	16:30		1									X			GACTN
9	EPTM 20-004		02/20	16:30		1									X			FBKINDUP
10	EPTM 20-004		02/20	16:30		1									X			FBKINDUP
11	EPTM 20-004		02/20	16:30		1									X			FBKINDUP
12	EPTM 20-004		02/20	16:30		1									X			FBKINDUP

ADDITIONAL COMMENTS: Cash. \$44 / Pace

RELINQUISHED BY / AFFILIATION: Cash. \$44 / Pace DATE: 02-26-08 TIME: \_\_\_\_\_

ACCEPTED BY / AFFILIATION: David J. Miller DATE: 2/27/08 TIME: 9:50

DATE Signed (MM/DD/YY): \_\_\_\_\_

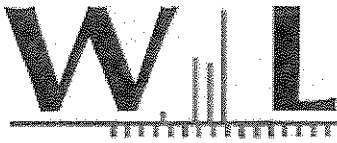
Temp In °C \_\_\_\_\_

Received on Ice (Y/N) \_\_\_\_\_

Custody Sealed Cooler (Y/N) \_\_\_\_\_

Samples Intact (Y/N) \_\_\_\_\_





14859 E. Clark Ave., Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634  
info@wecklabs.com www.wecklabs.com

**CERTIFICATE OF ANALYSIS**

**Client:** Pace Analytical Services  
940 South Harney Street  
Seattle, WA 98108  
Attention: Kara Godineaux  
  
Phone: (206) 957-2422  
Fax: (206) 767-5063

**Report Date:** 03/11/08 12:32  
**Received Date:** 02/27/08 09:50  
**Turn Around:** Normal

**Work Order #:** 8022735

**Client Project:** JPL/EPTM

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Kara Godineaux :

Enclosed are the results of analyses for samples received 02/27/08 09:50 with the Chain of Custody document. The samples were received in good condition. The samples were received at 2.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

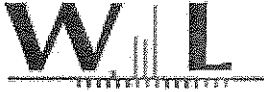
Reviewed by:

Kim G Tu

Project Manager







Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

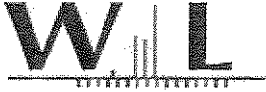
### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
JPL89-005	Client		8022735-01	Water	01/31/08 08:11
JPL89-006	Client		8022735-02	Water	01/31/08 08:54
JPL89-008	Client		8022735-03	Water	01/31/08 09:11
JPL89-007	Client		8022735-04	Water	01/31/08 09:20
JPL89-001	Client		8022735-05	Water	01/31/08 10:50
JPL89-002	Client		8022735-06	Water	01/31/08 11:38
JPL89-003	Client		8022735-07	Water	01/31/08 12:20
JPL89-004	Client		8022735-08	Water	01/31/08 12:51
JPL90-001	Client		8022735-09	Water	02/01/08 09:01
JPL90-002	Client		8022735-10	Water	02/01/08 09:21
JPL90-003	Client		8022735-11	Water	02/01/08 09:45
JPL90-004	Client		8022735-12	Water	02/01/08 09:59
JPL90-006	Client		8022735-13	Water	02/01/08 10:20
JPL90-005	Client		8022735-14	Water	02/01/08 10:25
JPL90-008	Client		8022735-15	Water	02/04/08 07:47
JPL90-009	Client		8022735-16	Water	02/04/08 08:09
JPL90-010	Client		8022735-17	Water	02/04/08 08:34
JPL90-011	Client		8022735-18	Water	02/04/08 09:05
JPL90-013	Client		8022735-19	Water	02/04/08 09:26
JPL90-012	Client		8022735-20	Water	02/04/08 09:40
JPL91-007	Client		8022735-21	Water	02/05/08 00:00
JPL91-004	Client		8022735-22	Water	02/05/08 07:42
JPL91-005	Client		8022735-23	Water	02/05/08 08:18
JPL91-008	Client		8022735-24	Water	02/05/08 08:40
JPL91-006	Client		8022735-25	Water	02/05/08 08:53
JPL91-001	Client		8022735-26	Water	02/05/08 10:50
JPL91-002	Client		8022735-27	Water	02/05/08 11:22
JPL91-003	Client		8022735-28	Water	02/05/08 11:49
EPTM18-001	Client		8022735-29	Water	02/05/08 13:50
EPTM18-003	Client		8022735-30	Water	02/05/08 14:00
EPTM18-004	Client		8022735-31	Water	02/05/08 14:05

Weck Laboratories, Inc  
Kim G Tu, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**Sub PER - 11**



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

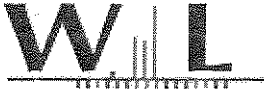
Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
EPTM18-005	Client		8022735-32	Water	02/05/08 14:10
JPL92-008	Client		8022735-33	Water	02/06/08 00:00
JPL92-003	Client		8022735-34	Water	02/06/08 07:56
JPL92-004	Client		8022735-35	Water	02/06/08 08:32
JPL92-005	Client		8022735-36	Water	02/06/08 09:01
JPL92-006	Client		8022735-37	Water	02/06/08 09:31
JPL92-009	Client		8022735-38	Water	02/06/08 10:10
JPL92-007	Client		8022735-39	Water	02/06/08 10:26
JPL92-001	Client		8022735-40	Water	02/06/08 11:48
JPL92-002	Client		8022735-41	Water	02/06/08 12:16
JPL93-005	Client		8022735-42	Water	02/07/08 00:00
JPL93-006	Client		8022735-43	Water	02/07/08 00:00
JPL93-002	Client		8022735-44	Water	02/07/08 08:21
JPL93-003	Client		8022735-45	Water	02/07/08 08:54
JPL93-007	Client		8022735-46	Water	02/07/08 09:34
JPL93-004	Client		8022735-47	Water	02/07/08 09:50
JPL94-002	Client		8022735-48	Water	02/08/08 08:01



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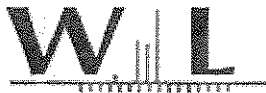
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JPL89-005 8022735-01 (Water)

Date Sampled: 01/31/08 08:11

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	1.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04, J



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Project ID: JPL/EPTM

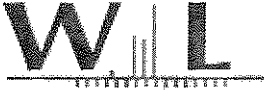
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JPL89-006 8022735-02 (Water)

Date Sampled: 01/31/08 08:54

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	24	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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Project ID: JPL/EPTM

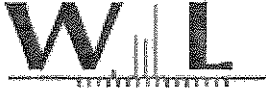
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JPL89-008 8022735-03 (Water)

Date Sampled: 01/31/08 09:11

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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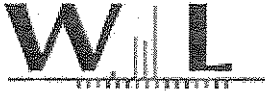
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JPL89-007 8022735-04 (Water)

Date Sampled: 01/31/08 09:20

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	8.8	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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Report ID: 8022735  
Project ID: JPL/EPTM

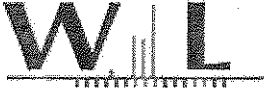
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JPL89-001 8022735-05 (Water)

Date Sampled: 01/31/08 10:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

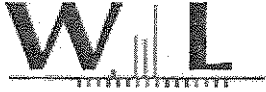
JPL89-002 8022735-06 (Water)

Date Sampled: 01/31/08 11:38

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	28	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04





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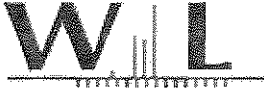
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL89-003 8022735-07 (Water)

Date Sampled: 01/31/08 12:20

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	29	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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Report ID: 8022735  
Project ID: JPL/EPTM

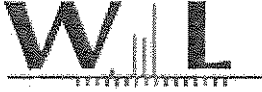
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JPL89-004 8022735-08 (Water)

Date Sampled: 01/31/08 12:51

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.98	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04, J



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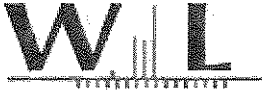
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JPL90-001 8022735-09 (Water)

Date Sampled: 02/01/08 09:01

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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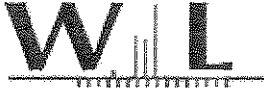
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Date Reported: 03/11/08 12:32

JPL90-002 8022735-10 (Water)

Date Sampled: 02/01/08 09:21

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	1.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	J



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Report ID: 8022735  
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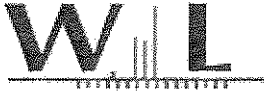
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JPL90-003 8022735-11 (Water)

Date Sampled: 02/01/08 09:45

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	7.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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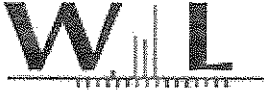
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL90-004 8022735-12 (Water)

Date Sampled: 02/01/08 09:59

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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Report ID: 8022735  
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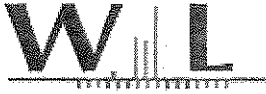
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JPL90-006 8022735-13 (Water)

Date Sampled: 02/01/08 10:20

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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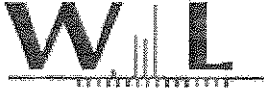
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Date Sampled: 02/01/08 10:25

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	2.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	





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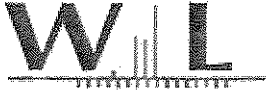
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JPL90-008 8022735-15 (Water)

Date Sampled: 02/04/08 07:47

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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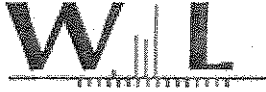
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL90-009 8022735-16 (Water)

Date Sampled: 02/04/08 08:09

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.5	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
 Project ID: JPL/EPTM

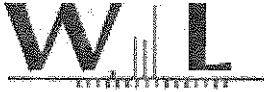
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JPL90-010 8022735-17 (Water)

Date Sampled: 02/04/08 08:34

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	6.6	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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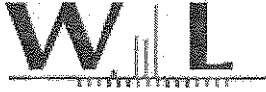
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JPL90-011 8022735-18 (Water)

Date Sampled: 02/04/08 09:05

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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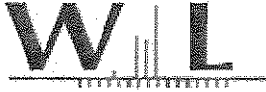
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Date Reported: 03/11/08 12:32

JPL90-013 8022735-19 (Water)

Date Sampled: 02/04/08 09:26

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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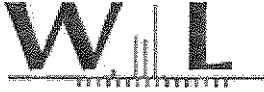
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JPL90-012 8022735-20 (Water)

Date Sampled: 02/04/08 09:40

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.3	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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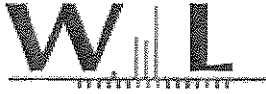
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Date Reported: 03/11/08 12:32

JPL91-007 8022735-21 (Water)

Date Sampled: 02/05/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	100	0.90	ug/l	4.0	2	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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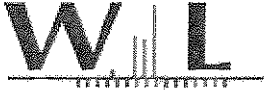
JPL91-004 8022735-22 (Water)

Date Sampled: 02/05/08 07:42

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.74	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	J





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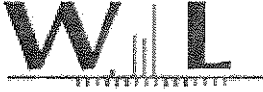
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL91-005 8022735-23 (Water)

Date Sampled: 02/05/08 08:18

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Project ID: JPL/EPTM

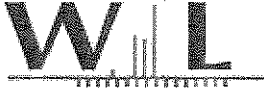
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JPL91-008 8022735-24 (Water)

Date Sampled: 02/05/08 08:40

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Project ID: JPL/EPTM

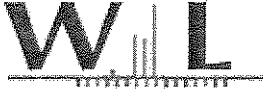
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JPL91-006 8022735-25 (Water)

Date Sampled: 02/05/08 08:53

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	100	0.90	ug/l	4.0	2	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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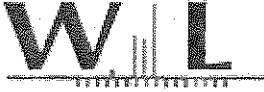
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JPL91-001 8022735-26 (Water)

Date Sampled: 02/05/08 10:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
 Project ID: JPL/EPTM

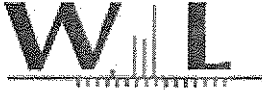
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JPL91-002 8022735-27 (Water)

Date Sampled: 02/05/08 11:22

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Project ID: JPL/EPTM

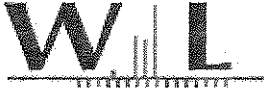
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JPL91-003 8022735-28 (Water)

Date Sampled: 02/05/08 11:49

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	240	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
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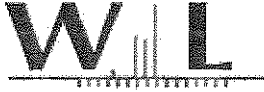
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EPTM18-001 8022735-29 (Water)

Date Sampled: 02/05/08 13:50

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	260	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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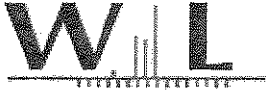
EPTM18-003 8022735-30 (Water)

Date Sampled: 02/05/08 14:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	310	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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Report ID: 8022735  
Project ID: JPL/EPTM

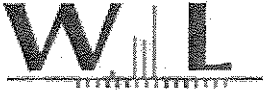
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Date Reported: 03/11/08 12:32

EPTM18-004 8022735-31 (Water)

Date Sampled: 02/05/08 14:05

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	300	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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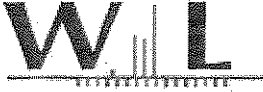
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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EPTM18-005 8022735-32 (Water)

Date Sampled: 02/05/08 14:10

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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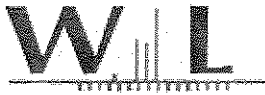
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-008 8022735-33 (Water)

Date Sampled: 02/06/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	10	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

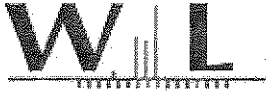
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Date Reported: 03/11/08 12:32

JPL92-003 8022735-34 (Water)

Date Sampled: 02/06/08 07:56

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.80	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	J



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Report ID: 8022735  
Project ID: JPL/EPTM

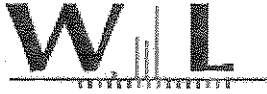
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Date Reported: 03/11/08 12:32

JPL92-004 8022735-35 (Water)

Date Sampled: 02/06/08 08:32

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	8.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

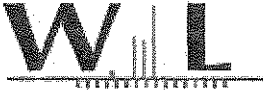
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Date Reported: 03/11/08 12:32

JPL92-005 8022735-36 (Water)

Date Sampled: 02/06/08 09:01

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	11	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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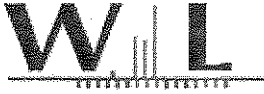
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-006 8022735-37 (Water)

Date Sampled: 02/06/08 09:31

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	15	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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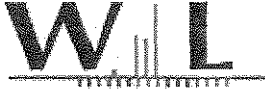
JPL92-009 8022735-38 (Water)

Date Sampled: 02/06/08 10:10

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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Report ID: 8022735  
 Project ID: JPL/EPTM

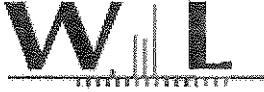
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JPL92-007 8022735-39 (Water)

Date Sampled: 02/06/08 10:26

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	9.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Project ID: JPL/EPTM

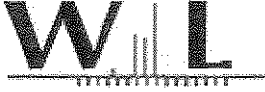
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JPL92-001 8022735-40 (Water)

Date Sampled: 02/06/08 11:48

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Project ID: JPL/EPTM

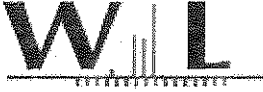
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JPL92-002 8022735-41 (Water)

Date Sampled: 02/06/08 12:16

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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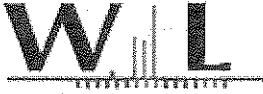
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JPL93-005 8022735-42 (Water)

Date Sampled: 02/07/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	25	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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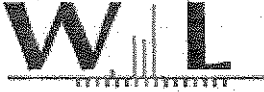
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JPL93-006 8022735-43 (Water)

Date Sampled: 02/07/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	13	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

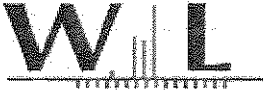
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JPL93-002 8022735-44 (Water)

Date Sampled: 02/07/08 08:21

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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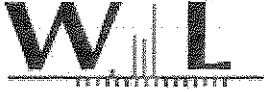
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JPL93-003 8022735-45 (Water)

Date Sampled: 02/07/08 08:54

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	23	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Date Reported: 03/11/08 12:32

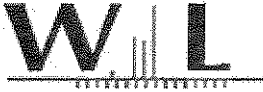
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Date Sampled: 02/07/08 09:34

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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Project ID: JPL/EPTM

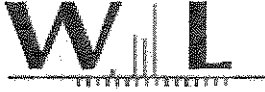
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JPL93-004 8022735-47 (Water)

Date Sampled: 02/07/08 09:50

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	12	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL94-002 8022735-48 (Water)

Date Sampled: 02/08/08 08:01

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	

**PACE ANALYTICAL SERVICES, INC.**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL93**

**March 17, 2008**

**Pace Analytical Services, Inc.**  
940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL93  
Date of Report: March 17, 2008

**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>Pace Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-24-4	JPL93-001	MET
MW-24-3	JPL93-002	VOA/MET/PER
MW-24-2	JPL93-003	VOA/MET/PER
MW-24-1	JPL93-004	VOA/MET/PER/ANIONS
DUPE-4-IQ08	JPL93-005	VOA/MET/PER
DUPE-5-IQ08	JPL93-006	VOA/MET/PER/ANIONS
EB-10-2/7/08	JPL93-007	VOA/MET/PER
TB-10-2/7/08	JPL93-008	VOA

**Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0) Subcontracted to Weck Laboratories  
ANIONS = Chloride, Nitrate, Nitrite, Sulfate, Ortho phosphorus (300.0)

Summary of NELAC test accreditation

<b>Determination</b>	<b>NELAC approved</b>
TurMet for 200.7/200.8 TurMet	NO
200.8 Total Cr	YES
300.0 Low Level NO3, NO2, Cl, SO4, OPO4	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples. No analyses were assigned to sample TB-10-2/7/08, as per client's request 524.2 was assigned.

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

One of three volatiles bottles submitted for EB-10-2/7/08 contained bubbles of less than 1/4 inch in size. Two of two volatiles bottles submitted for TB-10-2/7/08 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.

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:

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 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:

Pace 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

Samples MW-24-1 and DUPE-5-IQ08 were analyzed past the 48 hour holding time for the nitrate, nitrite and ortho phosphorus analysis due to instrumentation problems. Ortho phosphorus was analyzed by 365.2 within holding time. Both sets of data are included in data package.

ICP Metals:

No comments.

Miscellaneous Inorganics:

For run sequence R025767, the matrix spike recovered low with a wide RPD for the ortho phosphorus analysis. All other quality control elements were in control. Therefore, no further action was taken.

For run sequence R026072, the matrix spike and matrix spike duplicate recovered low for the ortho phosphorus analysis. All other quality control elements were in control. Therefore, no further action was taken.

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. 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

3/18/08  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

3/18/08  
(DATE)

*HOW TO CONTACT US:*

All Pace Analytical Services, Inc. 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, Pace 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.

**Pace Analytical Services, Inc.**  
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
WD JPL93-001	02/08/2008 08:30 AM	02/07/2008 07:53 AM	MW-24-4	IN				IN
WD JPL93-002	02/08/2008 08:30 AM	02/07/2008 08:21 AM	MW-24-3	IN		IN		IN
WD JPL93-003	02/08/2008 08:30 AM	02/07/2008 08:54 AM	MW-24-2	IN		IN		IN
WD JPL93-004	02/08/2008 08:30 AM	02/07/2008 09:50 AM	MW-24-1	IN	IN	IN		IN
WD JPL93-005	02/08/2008 08:30 AM	02/07/2008 12:00 AM	DUPE-4- IQ08	IN		IN		IN
WD JPL93-006	02/08/2008 08:30 AM	02/07/2008 12:00 AM	DUPE-5- IQ08	IN	IN	IN		IN
WD JPL93-007	02/08/2008 08:30 AM	02/07/2008 09:34 AM	EB-10- 2/7/08	IN		IN		IN
WD JPL93-008	02/08/2008 08:30 AM	02/07/2008 12:00 AM	TB-10- 2/7/08					IN

On:

Approved By:  
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

Matrices: Water=WD

FORM LTL-PM-8.0

40223

COMPANY: BATTLE  
 ADDRESS: 3990 OLD TOWN AVE, C-205  
SANDICOR CO 92110  
 ATTENTION: DAVID CANNON  
 PROJECT NAME: SPL GW MON 1008  
 PROJECT CONTACT: DAVID CANNON  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/PO. NO.: 6486090/214319

CHAIN OF CUSTODY RECORD  
 44226

SDG # JPL-93  
 PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_

SUBMITTED AT: \_\_\_\_\_

Testing Laboratories, Inc.  
 940 South Henry St., Seattle, WA 98104  
 1100 1st Avenue, Federal, WA 98002  
 (206) 267-3000 FAX 767-5063  
 (509) 245-4005 FAX 652-1265



MATRIX: WATER, SOIL OR SPECIFY  
 NO. OF CONTAINERS  
VOL (524.2)  
TOTAL CR (200.8)  
CLAY - (314.0)  
CL-SAND - (170.0)  
CL-SILT - (309.2)

TESTS TO PERFORM  
 940 South Henry St., Seattle, WA 98104  
 1100 1st Avenue, Federal, WA 98002  
 OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

LAB. NO.	SAMPLE ID / LOCATION	DATE	TIME	MATRIX	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1	MW-24-4	2/7/08	753	W	1	X	
2	MW-24-3		821		5	X X X X	
3	MW-24-2		854		5	X X X X	
4	MW-24-1		950		5	X X X X	
5	DUPE - 4 - 1008		-		5	X X X X	
6	DUPE - 5 - 1008		-		5	X X X X	
7	EB-10-2/7/08		934		5	X X X X	
8	TR-10-2/7/08		-		2		

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

REINQUISHED BY (SIGN AND PRINT) \_\_\_\_\_

NAME: BATTLE  
 ATTN: DAVID CANNON  
 ADDRESS: 505 KINLA AVE.  
 CITY, STATE, ZIP: CUMMINGS, OR 97201

DATE: 2/7/08  
 TIME: 1300

RECEIVED BY (SIGN AND PRINT) \_\_\_\_\_

DATE: 2.8.08  
 TIME: 0830

REINQUISHED BY (SIGN AND PRINT) MAMA MENDOZA

RECEIVED BY (SIGN AND PRINT) Kristin Klein

LABORATORY APPROVAL

\* 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 JPL93

VOLATILES ANALYSIS

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-3

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-002  
 Lab File ID: M0211016.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 16:02  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-3

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-002  
 Lab File ID: M0211016.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 16:02  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-3

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-002  
 Lab File ID: M0211016.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 16:02  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-24-2

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-003  
 Lab File ID: M0211017.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 16:28  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.45	J
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon tetrachloride	0.58	
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	0.25	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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-2

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-003  
 Lab File ID: M0211017.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 16:28  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-2

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-003  
 Lab File ID: M0211017.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 16:28  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-24-1

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-004  
 Lab File ID: M0211018.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 16:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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	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	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	1.6	
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-1

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-004  
 Lab File ID: M0211018.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 16:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24-1

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-004  
 Lab File ID: M0211018.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 16:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

DUPE-4-IQ08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-005  
 Lab File ID: M0211019.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 17:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.55	
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	0.25	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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-4-IQ08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-005  
 Lab File ID: M0211019.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 17:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-4-IQ08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-005  
 Lab File ID: M0211019.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 17:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

DUPE-5-IQ08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-006  
 Lab File ID: M0211020.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 17:51  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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	1.6	
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	1.2	
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-5-IQ08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-006  
 Lab File ID: M0211020.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 17:51  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-5-IQ08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-006  
 Lab File ID: M0211020.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 17:51  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

EB-10-2/7/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-007  
 Lab File ID: M0211015.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 15:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-10-2/7/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-007  
 Lab File ID: M0211015.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 15:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-10-2/7/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-007  
 Lab File ID: M0211015.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 15:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-10-2/7/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-008  
 Lab File ID: M0211021.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 18:19  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-10-2/7/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-008  
 Lab File ID: M0211021.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 18:19  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-10-2/7/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL93  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025815  
 Lab Sample ID: JPL93-008  
 Lab File ID: M0211021.D  
 Date Collected: 02/07/2008  
 Date/Time Analyzed: 02/11/2008 18:19  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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**

**JPL93**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-24-4

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL93

Matrix (soil/water): Water

Lab Sample ID: JPL93-001

Level (low/med): LOW

Date Received: 02/08/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	3.16			M	R026153

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

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

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

Date Printed: 2/28/2008 14:24

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-24-3

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL93

Matrix (soil/water): Water

Lab Sample ID: JPL93-002

Level (low/med): LOW

Date Received: 02/08/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	4.54			M	R026153

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

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

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

Date Printed: 2/28/2008 14:24

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-24-2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL93

Matrix (soil/water): Water

Lab Sample ID: JPL93-003

Level (low/med): LOW

Date Received: 02/08/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	5.89			M	R026153

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

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

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

Date Printed: 2/28/2008 14:24

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-24-1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL93

Matrix (soil/water): Water

Lab Sample ID: JPL93-004

Level (low/med): LOW

Date Received: 02/08/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	6.72			M	R026153

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

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

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

Date Printed: 2/28/2008 14:24

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-4-IQ08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL93

Matrix (soil/water): Water

Lab Sample ID: JPL93-005

Level (low/med): LOW

Date Received: 02/08/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	5.58			M	R026153

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

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

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

Date Printed: 2/28/2008 14:24

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-5-IQ08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL93

Matrix (soil/water): Water

Lab Sample ID: JPL93-006

Level (low/med): LOW

Date Received: 02/08/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	7.36			M	R026153

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

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

Comment \_\_\_\_\_

Date Printed: 2/28/2008 14:24

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-10-2/7/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL93

Matrix (soil/water): Water

Lab Sample ID: JPL93-007

Level (low/med): LOW

Date Received: 02/08/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00	U		M	R026153

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

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

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

Date Printed: 2/28/2008 14:24



**FORMS SUMMARY**

**JPL93**

**Miscellaneous Inorganics**

**Pace Analytical Services, Inc.**

**Final Results**

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL93  
**Sample Number:** MW-24-1 **Date/Time Collected:** 02/07/2008 09:50  
**Lab Sample ID:** JPL93-004 **Date/Time Received:** 02/08/2008 08:30

**Method/Qbatch\*:** E300.0/27229 **Unit:** mg/L  
**Instrument:** Ion Chromatograph (2) **File:** R026072\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.11		0.040	0.055	02/25/2008	02/26/2008	R026072
Nitrite - N	14797-65-0	1	0.050	U	0.050	0.017	02/25/2008	02/26/2008	R026072
Sulfate as SO4	14808-79-8	10	36		10	1.7	02/25/2008	02/26/2008	R026072
Chloride	16887-00-6	10	48		2.0	0.76	02/25/2008	02/26/2008	R026072
Orthophosphate	7723-14-0	1	0.10	U	0.10	0.33	02/25/2008	02/26/2008	R026072

**Method/Qbatch\*:** E365.2/26904 **Unit:** mg/L  
**Instrument:** UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Phosphorus, Orthophosphate (as P)	7723-14-0	1	0.10	U	0.10	0.0025	02/08/2008	02/08/2008	R025767

\*QBatch=QC/Preparation Batch

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
 SDG Number: JPL93  
 Sample Number: DUPE-5-IQ08 Date/Time Collected: 02/07/2008 00:00  
 Lab Sample ID: JPL93-006 Date/Time Received: 02/08/2008 08:30

Method/Qbatch\*: E300.0/27229 Unit: mg/L  
 Instrument: Ion Chromatograph (2) File: R026072\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.59		0.040	0.055	02/25/2008	02/26/2008	R026072
Nitrite - N	14797-65-0	1	0.050	U	0.050	0.017	02/25/2008	02/26/2008	R026072
Sulfate as SO4	14808-79-8	10	36		10	1.7	02/25/2008	02/26/2008	R026072
Chloride	16887-00-6	10	48		2.0	0.76	02/25/2008	02/26/2008	R026072
Orthophosphate	7723-14-0	1	0.34		0.10	0.33	02/25/2008	02/26/2008	R026072

Method/Qbatch\*: E365.2/26904 Unit: mg/L  
 Instrument: UV/Vis (Cary) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Phosphorus, Orthophosphate (as P)	7723-14-0	1	0.10	U	0.10	0.0025	02/08/2008	02/08/2008	R025767

\*QBatch=QC/Preparation Batch

## **Perchlorate Data**

### **Subcontracted to Weck Laboratories**

**JPL89  
JPL90  
JPL91  
JPL92  
JPL93  
JPL94  
EPTM18**

## QA/OC Data Package

### EPA Method 314 – Perchlorate

Lab ID number: 8022735 (01-14,15-20,22-24,26,27,32-34)

#### 1. Case Narrative

The samples were received on ice and they were in good condition. The temperature upon receipt at the laboratory was 2.3°C. Due to autosampler malfunction, samples 8022735-01 thru -08 (Weck Lab IDs) were analyzed one day past hold time. All other samples were completed within holding time. Also, Weck Lab IDs did not numerically correspond directly to Client's sample IDs, so samples -01 thru -08 were not run in order. All QA/QC determinations were within acceptance ranges.

The following acronyms are used in this data package:

IPC: Instrument Performance Check, is a calibration check standard prepared in a matrix of high conductivity. It defines the highest background that a sample can have to be analyzed directly; samples with higher backgrounds need to be diluted.

IPC: Instrument Performance Check prepared with high conductivity matrix (20 ppb).

LRB: Laboratory Reagent Blank or Method Blank.

CCV: Continuing Calibration Check Standard at low-level (2 ppb) and mid-level (20 ppb or 40 ppb).

Note: CCVs start with 2 ppb, then alternate between 20 and 40 ppb through the batch.

#### 2. QC Summaries

See Quality Control Report

#### 3. Sample Data

- 3.1 Analytical results summary: see Certificate of Analysis.
- 3.2 Chromatograms, quantitation reports and injection log for samples and QC runs for the batch: See Appendix 1.
- 3.3 Chain of custody record: A copy is included with the Certificate of Analysis.
- 3.4 Copies of bench sheets and secondary review checklist: Appendix 2.

#### 4. Calibration Data

- 4.1 Initial Calibration summary and chromatograms: See Appendix 3.
- 4.2 Continuing calibration summary and chromatograms: See Appendix 1.

5. Raw Data

- 5.1 Chromatograms and quantitation for MS/MSD and LCS: See Appendix 1.
- 5.2 Bench sheets: See Appendix 2.

6. Standards Preparation Records

- 6.1 See Appendix 4 for copies of standards and solutions preparation

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: **Pace Analytical** Address: **940 S. Havens St. Seattle, WA 98108** Email To: **Karvag@pacelabs.com** Phone: **206-461-1011** Fax: **206-461-1012** Requested Due Date/TAT: \_\_\_\_\_

Section B Required Project Information: Report To: **Kara Godineaux** Copy To: \_\_\_\_\_ Purchase Order No.: \_\_\_\_\_ Project Name: **SPL / EPTM** Project Number: \_\_\_\_\_

Section C Invoice Information: Attention: **Kara Godineaux** Company Name: **Pace Analytical** Address: \_\_\_\_\_ Pace Quote #: \_\_\_\_\_ Pace Project Manager: **Kara Godineaux** Pace Profile #: \_\_\_\_\_

REGULATORY AGENCY: \_\_\_\_\_ NPDES: \_\_\_\_\_ GROUND WATER: \_\_\_\_\_ DRINKING WATER: \_\_\_\_\_ UST: \_\_\_\_\_ RCRA: \_\_\_\_\_ OTHER: \_\_\_\_\_ Site Location: \_\_\_\_\_ STATE: \_\_\_\_\_

Section D Required Client Information	Matrix Codes MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis/Filtered (Y/N)	Residual Chlorine (Y/N)
			COMPOSITE START	COMPOSITE END/AVG						
SPL 89-005			01/31	08:11		1		314.0 Perchlorate		
SPL 89-006			01/31	08:54		1				
SPL 89-008			01/31	09:11		1				
SPL 89-007			01/31	09:20		1				
SPL 89-001			01/31	10:50		1				
SPL 89-002			01/31	11:38		1				
SPL 89-003			01/31	12:20		1				
SPL 89-004			01/31	12:51		1				
SPL 90-001			02/01	09:01		1				
SPL 90-002			02/01	09:21		1				
SPL 90-003			02/01	09:45		1				
SPL 90-004			02/01	09:57		1				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Please also MS/MSD on	<i>[Signature]</i> / Pace	02-26-08		<i>[Signature]</i>	2/26/08	9:50
Samples: SPL 89-007						

Temp in °C \_\_\_\_\_ Received on Ice (Y/N) \_\_\_\_\_ Custody Sealed Cooler (Y/N) \_\_\_\_\_ Samples Intact (Y/N) \_\_\_\_\_

PRINT Name of SAMPLER: \_\_\_\_\_ SIGNATURE of SAMPLER: \_\_\_\_\_ DATE signed (MM/DD/YY): \_\_\_\_\_

ORIGINAL

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to this change of 1.5% per month for any overdue and void within 90 days.





**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: **Pace Analytical** Address: **940 S. Harvey St. Seattle, WA 98108** Phone: **Karag Q. Lawless, Lab. Coord** Home: \_\_\_\_\_ Fax: \_\_\_\_\_

Section B Required Project Information: Report To: **Kara Godineaux** Copy To: \_\_\_\_\_ Purchase Order No.: \_\_\_\_\_ Project Name: **JPL/EPTM** Project Number: \_\_\_\_\_

Section C Invoice Information: Attention: **Kara Godineaux** Company Name: **Pace Analytical** Address: \_\_\_\_\_ Pura Quota Reference: \_\_\_\_\_ Pace Project Manager: **Kara Godineaux** Pace Profile #: \_\_\_\_\_

Requested Analysis Filtered (Y/N):  NPDES  GROUND WATER  DRINKING WATER  UST  RCRA  OTHER  Site Location: \_\_\_\_\_ STATE: \_\_\_\_\_

Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab ID
		Drinking Water	Water											
JPL91-001	DW	<input type="checkbox"/>	<input type="checkbox"/>	02/05	08:53				1		<input checked="" type="checkbox"/>		MW-4-1	
JPL91-001	WT	<input type="checkbox"/>	<input type="checkbox"/>	02/05	10:50				1		<input checked="" type="checkbox"/>		MW-3-4	
JPL92-JPL91-002	WW	<input type="checkbox"/>	<input type="checkbox"/>	02/05	11:22				1		<input checked="" type="checkbox"/>		MW-3-3	
JPL91-003	P	<input type="checkbox"/>	<input type="checkbox"/>	02/05	11:49				1		<input checked="" type="checkbox"/>		MW-3-2	
EPTM18-001	SL	<input type="checkbox"/>	<input type="checkbox"/>	02/05	13:50				1		<input checked="" type="checkbox"/>		GACIN	
EPTM18-003	OL	<input type="checkbox"/>	<input type="checkbox"/>	02/05	14:00				1		<input checked="" type="checkbox"/>		EBRTN	
EPTM18-004	WP	<input type="checkbox"/>	<input type="checkbox"/>	02/05	14:05				1		<input checked="" type="checkbox"/>		EBRTN DUP	
EPTM18-005	AR	<input type="checkbox"/>	<input type="checkbox"/>	02/05	14:10				1		<input checked="" type="checkbox"/>		DUPE-3-BOOK	
JPL92-008	TS	<input type="checkbox"/>	<input type="checkbox"/>	02/06	00:00				1		<input checked="" type="checkbox"/>		MW-25-5	
JPL92-003	OT	<input type="checkbox"/>	<input type="checkbox"/>	02/06	07:56				1		<input checked="" type="checkbox"/>		MW-25-4	
JPL92-004		<input type="checkbox"/>	<input type="checkbox"/>	02/06	08:32				1		<input checked="" type="checkbox"/>		MW-25-4	
JPL92-005		<input type="checkbox"/>	<input type="checkbox"/>	02/06	09:01				1		<input checked="" type="checkbox"/>		MW-25-3	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Please do MS/MSD on samples = NO samples	Kara Q. Lawless / Pace	02-26-08		James J. Miller	2/27/08	9:50	

ORIGINAL

TEMPERATURE: \_\_\_\_\_

DATE SIGNED: \_\_\_\_\_

PRINT NAME OF SAMPLER: \_\_\_\_\_

SIGNATURE OF SAMPLER: \_\_\_\_\_

DATE SIGNED (MM/DD/YY): \_\_\_\_\_

Temp in °C \_\_\_\_\_

Received on Ice (Y/N) \_\_\_\_\_

Custody Sealed Cooler (Y/N) \_\_\_\_\_

Samples Intact (Y/N) \_\_\_\_\_



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:
Company: <b>PACE Analytical</b> Address: <b>9405 Haines St.</b> Seattle, WA 98108 mail To: <b>Karag@lavickslabs.com</b> Phone: _____ Fax: _____ Requested Due Date/TAT: _____	Report To: <b>Kara Godineaux</b> Copy To: _____ Purchase Order No.: _____ Project Name: <b>JPL/EPTM</b> Project Number: _____	Attention: <b>Kara Godineaux</b> Company Name: <b>Pace Analytical</b> Address: _____ Pace Order Reference: <b>Kara Godineaux</b> Pace Project Manager: _____ Pace Profile #: _____
REGULATORY AGENCY: _____ <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____ Site Location: _____ STATE: _____		

Section D Required Client Information	Matrix Codes MATRIX & CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS
				COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>				
1 JPL92-006	Drinking Water	DW		02/06	09:31		1										MW-25-2
2 JPL92-009	Water	WT		02/06	10:10		1										EB-9-2/6/08
3 JPL92-007	Waste Water	WW		02/06	10:26		1										MW-25-1
4 JPL92-001	Product	P		02/06	11:48		1										MW-26-2
5 JPL92-002	Soil/Soil	SL		02/06	12:16		1										MW-26-1
6 JPL93-005	Oil	OL		02/07	00:00		1										DUPE-4-DOB
7 JPL93-006	Wipe	WP		02/07	08:21		1										DUPE-5-DOB
8 JPL93-003	Air	AR		02/07	08:54		1										MW-24-3
9 JPL93-007	Tissue	TS		02/07	09:34		1										MW-24-2
10 JPL93-004	Other	OT		02/07	09:50		1										EB-10-2/7/08
2 JPL94-002				02/08	08:01		1										MW-23-3

Additional Comments: Please do MS/MSD on

Relinquished By / Affiliation: Carl Strick / Pace DATE: 02-26-08 TIME: \_\_\_\_\_

Accepted By / Affiliation: Joanna Ginner DATE: 2/27/08 TIME: 9:50

Signature: \_\_\_\_\_ DATE Signed (MM/DD/YY): \_\_\_\_\_

Temp in °C \_\_\_\_\_

Received on Ice (Y/N) \_\_\_\_\_

Custody Sealed Cooler (Y/N) \_\_\_\_\_

Samples Intact (Y/N) \_\_\_\_\_

Temp in °C \_\_\_\_\_

Received on Ice (Y/N) \_\_\_\_\_

Custody Sealed Cooler (Y/N) \_\_\_\_\_

Samples Intact (Y/N) \_\_\_\_\_





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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:  
Company: Pace Analytical  
Address: 940 S. Harris St.  
Seattle, WA 98108  
Email To: Karyn@paceanalytical.com  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Requested Due Date/TAT: \_\_\_\_\_

**Section B**  
Required Project Information:  
Report To: Kara Godineaux  
Copy To: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: JPL / EPTM  
Project Number: \_\_\_\_\_

**Section C**  
Invoice Information:  
Attention: Kara Godineaux  
Company Name: Pace Analytical  
Address: \_\_\_\_\_  
Pace Quote Reference: \_\_\_\_\_  
Pace Project Manager: Kara Godineaux  
Pace Profile #: \_\_\_\_\_

REGULATORY AGENCY: \_\_\_\_\_  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
 Site Location: \_\_\_\_\_ STATE: \_\_\_\_\_  
 Requested Analysis Filtered: (Y/N) \_\_\_\_\_

ITEM #	Section D Required Client Information  SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX 1 CODE Drinking Water Waste Water Product Self-Solid Oil Wipe Air Tissue Other	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered: (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
					DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH					Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
1	EPTM19-004				02/12	13:15		1								X		314.0 Perchlorate		FBKINDUP
2	EPTM19-005				02/12	13:30		1								X				FBKINDUP
3	JPL96-003				02/13	00:00		1								X				FRRODT
4	JPL96-001				02/13	08:30		1								X				DUPE-7-IC008
5	JPL96-002				02/13	10:53		1								X				MW-13
6	JPL97-001				02/14	08:17		1								X				MW-8
7	EPTM20-001				02/20	16:00		1								X				MW-10
8	EPTM20-003				02/20	16:30		1								X				GACTN
9	EPTM20-004				02/20	16:30		1								X				FBRIN
10	PGMW080201-001				02/08	11:00		1								X				FBRINDUP
11								1								X				Cann. Sp. - 020808
12								1								X				

ADDITIONAL COMMENTS: Call Site / Pace

RELINQUISHED BY / AFFILIATION: Pace DATE: 02-26-08

ACCEPTED BY / AFFILIATION: David J. Miller DATE: 2/27/08 TIME: 9:50

DATE Signed (MM/DD/YY): \_\_\_\_\_

Temp In °C \_\_\_\_\_

Received on Ice (Y/N) \_\_\_\_\_

Custody Sealed Cooler (Y/N) \_\_\_\_\_

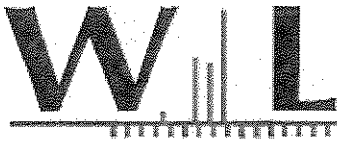
Samples Intact (Y/N) \_\_\_\_\_

ORIGINAL

PRINT Name of SAMPLER: \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_

DATE Signed (MM/DD/YY): \_\_\_\_\_



14859 E. Clark Ave., Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634  
info@wecklabs.com www.wecklabs.com

**CERTIFICATE OF ANALYSIS**

**Client:** Pace Analytical Services  
940 South Harney Street  
Seattle, WA 98108  
Attention: Kara Godineaux  
  
Phone: (206) 957-2422  
Fax: (206) 767-5063

**Report Date:** 03/11/08 12:32  
**Received Date:** 02/27/08 09:50  
**Turn Around:** Normal

**Work Order #:** 8022735

**Client Project:** JPL/EPTM

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Kara Godineaux :

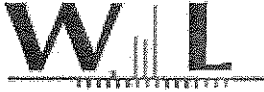
Enclosed are the results of analyses for samples received 02/27/08 09:50 with the Chain of Custody document. The samples were received in good condition. The samples were received at 2.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Kim G Tu

Project Manager





Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

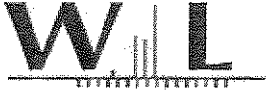
### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
JPL89-005	Client		8022735-01	Water	01/31/08 08:11
JPL89-006	Client		8022735-02	Water	01/31/08 08:54
JPL89-008	Client		8022735-03	Water	01/31/08 09:11
JPL89-007	Client		8022735-04	Water	01/31/08 09:20
JPL89-001	Client		8022735-05	Water	01/31/08 10:50
JPL89-002	Client		8022735-06	Water	01/31/08 11:38
JPL89-003	Client		8022735-07	Water	01/31/08 12:20
JPL89-004	Client		8022735-08	Water	01/31/08 12:51
JPL90-001	Client		8022735-09	Water	02/01/08 09:01
JPL90-002	Client		8022735-10	Water	02/01/08 09:21
JPL90-003	Client		8022735-11	Water	02/01/08 09:45
JPL90-004	Client		8022735-12	Water	02/01/08 09:59
JPL90-006	Client		8022735-13	Water	02/01/08 10:20
JPL90-005	Client		8022735-14	Water	02/01/08 10:25
JPL90-008	Client		8022735-15	Water	02/04/08 07:47
JPL90-009	Client		8022735-16	Water	02/04/08 08:09
JPL90-010	Client		8022735-17	Water	02/04/08 08:34
JPL90-011	Client		8022735-18	Water	02/04/08 09:05
JPL90-013	Client		8022735-19	Water	02/04/08 09:26
JPL90-012	Client		8022735-20	Water	02/04/08 09:40
JPL91-007	Client		8022735-21	Water	02/05/08 00:00
JPL91-004	Client		8022735-22	Water	02/05/08 07:42
JPL91-005	Client		8022735-23	Water	02/05/08 08:18
JPL91-008	Client		8022735-24	Water	02/05/08 08:40
JPL91-006	Client		8022735-25	Water	02/05/08 08:53
JPL91-001	Client		8022735-26	Water	02/05/08 10:50
JPL91-002	Client		8022735-27	Water	02/05/08 11:22
JPL91-003	Client		8022735-28	Water	02/05/08 11:49
EPTM18-001	Client		8022735-29	Water	02/05/08 13:50
EPTM18-003	Client		8022735-30	Water	02/05/08 14:00
EPTM18-004	Client		8022735-31	Water	02/05/08 14:05

Weck Laboratories, Inc  
Kim G Tu, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**Sub PER - 11**



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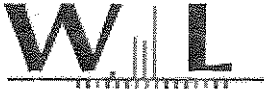
Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
EPTM18-005	Client		8022735-32	Water	02/05/08 14:10
JPL92-008	Client		8022735-33	Water	02/06/08 00:00
JPL92-003	Client		8022735-34	Water	02/06/08 07:56
JPL92-004	Client		8022735-35	Water	02/06/08 08:32
JPL92-005	Client		8022735-36	Water	02/06/08 09:01
JPL92-006	Client		8022735-37	Water	02/06/08 09:31
JPL92-009	Client		8022735-38	Water	02/06/08 10:10
JPL92-007	Client		8022735-39	Water	02/06/08 10:26
JPL92-001	Client		8022735-40	Water	02/06/08 11:48
JPL92-002	Client		8022735-41	Water	02/06/08 12:16
JPL93-005	Client		8022735-42	Water	02/07/08 00:00
JPL93-006	Client		8022735-43	Water	02/07/08 00:00
JPL93-002	Client		8022735-44	Water	02/07/08 08:21
JPL93-003	Client		8022735-45	Water	02/07/08 08:54
JPL93-007	Client		8022735-46	Water	02/07/08 09:34
JPL93-004	Client		8022735-47	Water	02/07/08 09:50
JPL94-002	Client		8022735-48	Water	02/08/08 08:01



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Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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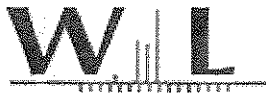
JPL89-005 8022735-01 (Water)

Date Sampled: 01/31/08 08:11

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	1.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04, J





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Pace Analytical Services  
 940 South Harney Street  
 Seattle WA, 98108

Report ID: 8022735  
 Project ID: JPL/EPTM

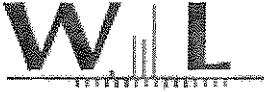
Date Received: 02/27/08 09:50  
 Date Reported: 03/11/08 12:32

JPL89-006 8022735-02 (Water)

Date Sampled: 01/31/08 08:54

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	24	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

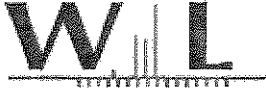
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL89-008 8022735-03 (Water)

Date Sampled: 01/31/08 09:11

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



Weck Laboratories, Inc.  
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Pace Analytical Services  
 940 South Harney Street  
 Seattle WA, 98108

Report ID: 8022735  
 Project ID: JPL/EPTM

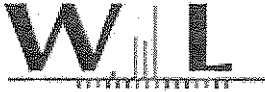
Date Received: 02/27/08 09:50  
 Date Reported: 03/11/08 12:32

JPL89-007 8022735-04 (Water)

Date Sampled: 01/31/08 09:20

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	8.8	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

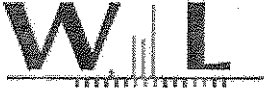
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL89-001 8022735-05 (Water)

Date Sampled: 01/31/08 10:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
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Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

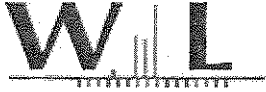
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL89-002 8022735-06 (Water)

Date Sampled: 01/31/08 11:38

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	28	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



Weck Laboratories, Inc.  
 14859 E. Clark Ave.  
 Industry, CA 91745  
 Phone 626.336.2139 Fax 626.336.2634

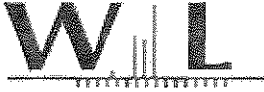
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL89-003 8022735-07 (Water)

Date Sampled: 01/31/08 12:20

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	29	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

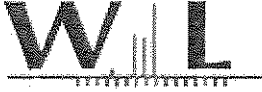
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL89-004 8022735-08 (Water)

Date Sampled: 01/31/08 12:51

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.98	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04, J



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Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

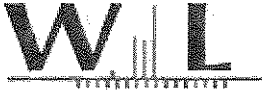
JPL90-001 8022735-09 (Water)

Date Sampled: 02/01/08 09:01

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	





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Report ID: 8022735  
Project ID: JPL/EPTM

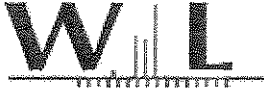
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JPL90-002 8022735-10 (Water)

Date Sampled: 02/01/08 09:21

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	1.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	J



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Report ID: 8022735  
Project ID: JPL/EPTM

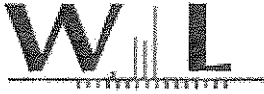
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Date Reported: 03/11/08 12:32

JPL90-003 8022735-11 (Water)

Date Sampled: 02/01/08 09:45

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	7.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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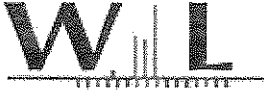
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JPL90-004 8022735-12 (Water)

Date Sampled: 02/01/08 09:59

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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Report ID: 8022735  
 Project ID: JPL/EPTM

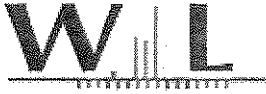
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JPL90-006 8022735-13 (Water)

Date Sampled: 02/01/08 10:20

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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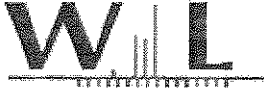
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL90-005 8022735-14 (Water)

Date Sampled: 02/01/08 10:25

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	2.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL90-008 8022735-15 (Water)

Date Sampled: 02/04/08 07:47

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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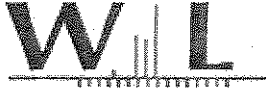
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL90-009 8022735-16 (Water)

Date Sampled: 02/04/08 08:09

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.5	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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 Project ID: JPL/EPTM

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 Date Reported: 03/11/08 12:32

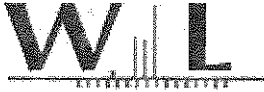
JPL90-010 8022735-17 (Water)

Date Sampled: 02/04/08 08:34

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	6.6	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	





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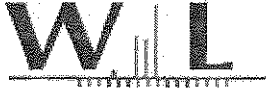
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Date Reported: 03/11/08 12:32

JPL90-011 8022735-18 (Water)

Date Sampled: 02/04/08 09:05

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

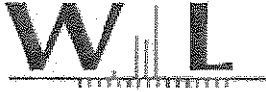
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Date Reported: 03/11/08 12:32

JPL90-013 8022735-19 (Water)

Date Sampled: 02/04/08 09:26

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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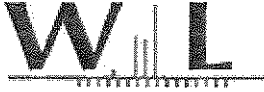
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL90-012 8022735-20 (Water)

Date Sampled: 02/04/08 09:40

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.3	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

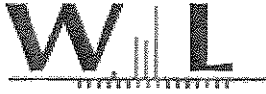
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Date Reported: 03/11/08 12:32

JPL91-007 8022735-21 (Water)

Date Sampled: 02/05/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	100	0.90	ug/l	4.0	2	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

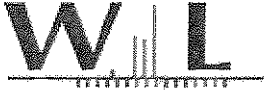
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Date Reported: 03/11/08 12:32

JPL91-004 8022735-22 (Water)

Date Sampled: 02/05/08 07:42

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.74	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	J



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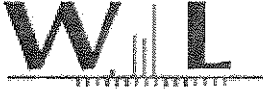
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL91-005 8022735-23 (Water)

Date Sampled: 02/05/08 08:18

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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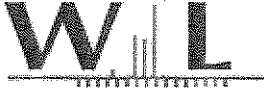
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL91-008 8022735-24 (Water)

Date Sampled: 02/05/08 08:40

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

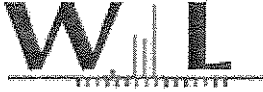
JPL91-006 8022735-25 (Water)

Date Sampled: 02/05/08 08:53

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	100	0.90	ug/l	4.0	2	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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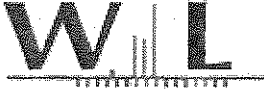
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL91-001 8022735-26 (Water)

Date Sampled: 02/05/08 10:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
 Project ID: JPL/EPTM

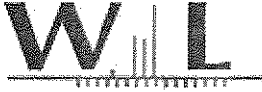
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JPL91-002 8022735-27 (Water)

Date Sampled: 02/05/08 11:22

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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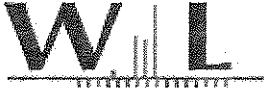
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Date Reported: 03/11/08 12:32

JPL91-003 8022735-28 (Water)

Date Sampled: 02/05/08 11:49

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	240	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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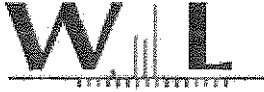
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EPTM18-001 8022735-29 (Water)

Date Sampled: 02/05/08 13:50

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	260	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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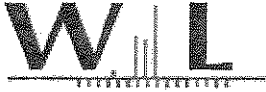
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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EPTM18-003 8022735-30 (Water)

Date Sampled: 02/05/08 14:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	310	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

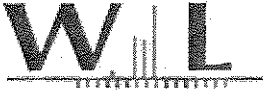
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Date Reported: 03/11/08 12:32

EPTM18-004 8022735-31 (Water)

Date Sampled: 02/05/08 14:05

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	300	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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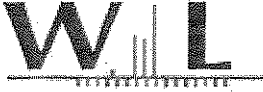
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EPTM18-005 8022735-32 (Water)

Date Sampled: 02/05/08 14:10

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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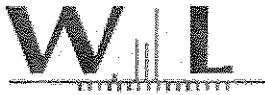
JPL92-008 8022735-33 (Water)

Date Sampled: 02/06/08 00:00

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	10	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	





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Report ID: 8022735  
Project ID: JPL/EPTM

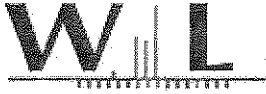
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL92-003 8022735-34 (Water)

Date Sampled: 02/06/08 07:56

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.80	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	J



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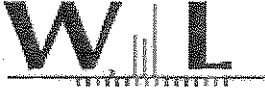
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-004 8022735-35 (Water)

Date Sampled: 02/06/08 08:32

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	8.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
 Project ID: JPL/EPTM

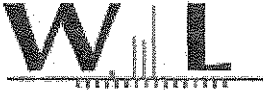
Date Received: 02/27/08 09:50  
 Date Reported: 03/11/08 12:32

JPL92-005 8022735-36 (Water)

Date Sampled: 02/06/08 09:01

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	11	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

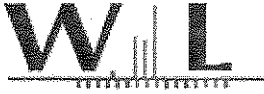
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Date Reported: 03/11/08 12:32

JPL92-006 8022735-37 (Water)

Date Sampled: 02/06/08 09:31

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	15	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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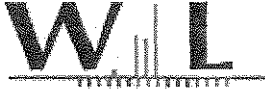
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-009 8022735-38 (Water)

Date Sampled: 02/06/08 10:10

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

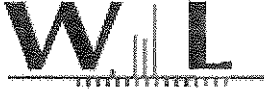
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Date Reported: 03/11/08 12:32

JPL92-007 8022735-39 (Water)

Date Sampled: 02/06/08 10:26

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	9.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

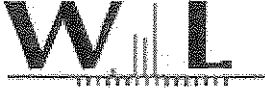
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL92-001 8022735-40 (Water)

Date Sampled: 02/06/08 11:48

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

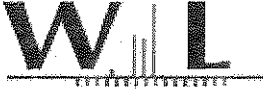
JPL92-002 8022735-41 (Water)

Date Sampled: 02/06/08 12:16

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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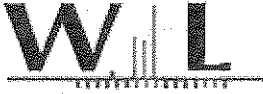
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL93-005 8022735-42 (Water)

Date Sampled: 02/07/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	25	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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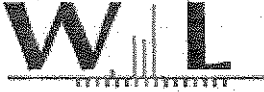
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL93-006 8022735-43 (Water)

Date Sampled: 02/07/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	13	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Project ID: JPL/EPTM

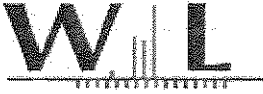
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL93-002 8022735-44 (Water)

Date Sampled: 02/07/08 08:21

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Project ID: JPL/EPTM

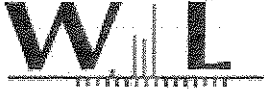
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Date Reported: 03/11/08 12:32

JPL93-003 8022735-45 (Water)

Date Sampled: 02/07/08 08:54

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	23	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

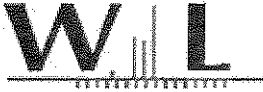
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL93-007 8022735-46 (Water)

Date Sampled: 02/07/08 09:34

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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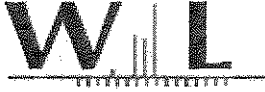
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL93-004 8022735-47 (Water)

Date Sampled: 02/07/08 09:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	12	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL94-002 8022735-48 (Water)

Date Sampled: 02/08/08 08:01

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	

**PACE ANALYTICAL SERVICES, INC.**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL94**

**March 17, 2008**



**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL94  
Date of Report: March 17, 2008

**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>Pace Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-23-4	JPL94-001	MET
MW-23-3	JPL94-002	VOA/MET/PER
MW-23-2	JPL94-003	VOA/MET/PER
MW-23-1	JPL94-004	VOA/MET/PER
EB-11-2/8/08	JPL94-005	VOA/MET/PER
SB-1-IQ08	JPL94-006	VOA/MET/PER
MW-5	JPL94-007	VOA/MET/PER
MW-6	JPL94-008	VOA/MET/PER
TB-12-02/11/08	JPL94-009	VOA
TB-11-2/8/08	JPL94-010	VOA

**Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0) Subcontracted to Weck Laboratories

Summary of NELAC test accreditation

<b>Determination</b>	<b>NELAC approved</b>
TurMet for 200.7/200.8 TurMet	NO
200.8 Total Cr	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.  
One of six volatiles bottles submitted for MW-23-1 contained bubbles of less than 1/4 inch in size.  
Three of three volatiles bottles submitted for MW-5 contained bubbles of less than 1/4 inch in size.  
Three of three volatiles bottles submitted for MW-6 contained bubbles of less than 1/4 inch in size. Two of two volatiles bottles submitted for TB-11-2/8/08 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.

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:

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 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:

Pace 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:

Sample EB-11-2/8/08 has a chromium result of 1.00 ug/L which is equal to the PQL of 1.0 ug/L. Pace recognizes that for this client project, samples beginning with "EB-" may be client equipment blanks. The client action level for chromium is 10 ug/L. The client action level for chromium is 10 ug/L. Sample EB-11-2/8/08 had a concentration of chromium that was less than 1/2 the client action level and could be subject to a slightly high bias. No further corrective action was taken. Data have not been flagged for this event.

The serial dilution for the element chromium did not agree within 10% of the original determination after correction for dilution for sample MW-6. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms 1 and 9.

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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.
  - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- 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.
  - Z Denotes data deemed unusable by the analyst.
- 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

Pace Analytical Services, Inc. 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

3/17/08  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

3/17/08  
(DATE)

*HOW TO CONTACT US:*

All Pace Analytical Services, Inc. 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, Pace 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.

**Pace Analytical Services, Inc.**  
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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 (PPL Special list)	TurMet for 200.7/200.8 TurMet
WD JPL94-001	02/12/2008 08:30 AM	02/08/2008 07:37 AM	MW-23-4	IN			IN
WD JPL94-002	02/12/2008 08:30 AM	02/08/2008 08:01 AM	MW-23-3	IN	IN		IN
WD JPL94-003	02/12/2008 08:30 AM	02/08/2008 08:31 AM	MW-23-2	IN	IN	IN	IN
WD *JPL94-004	02/12/2008 08:30 AM	02/08/2008 09:09 AM	MW-23-1	IN	IN	IN	IN
WD JPL94-005	02/12/2008 08:30 AM	02/08/2008 08:49 AM	EB-11-2/8/08	IN	IN	IN	IN
WD JPL94-006	02/12/2008 08:30 AM	02/08/2008 08:56 AM	SB-1-IQ08	IN	IN	IN	IN
WD JPL94-007	02/12/2008 08:30 AM	02/11/2008 08:24 AM	MW-5	IN	IN	IN	IN
WD JPL94-008	02/12/2008 08:30 AM	02/11/2008 11:25 AM	MW-6	IN	IN	IN	IN
WD JPL94-009	02/12/2008 08:30 AM	02/11/2008 12:00 AM	TB-12- 02/11/08			IN	IN
WD JPL94-010	02/12/2008 08:30 AM	02/08/2008 12:00 AM	TB-11-2/8/08			IN	

On:

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

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

Matrices: Water=WD

FORM LTL-PM-8.0



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

10251

COMPANY: BATTLE  
 ADDRESS: 3990 OLD TOWN AVE. C-205  
SAN DIEGO, CA 92110  
 ATTENTION: DAVID COVER  
 PROJECT NAME: SPL GW MON 1808  
 PROJECT CONTACT: DAVID COVER  
 TELEPHONE: 619-726-7811 FAX: \_\_\_\_\_  
 JOB/PO. NO.: 6486090/21439

CHAIN OF CUSTODY RECORD **SDG #** JPL-94  
**44225**

WORK ORDER ID# \_\_\_\_\_ PAGE 1 OF 1  
 SUBMITTED AT: \_\_\_\_\_

**Laucks**  
 Testing Laboratories, Inc. **10**  
 940 South Henry St. Seattle, WA 98108 (206) 767-5000 FAX 767-5063  
 1109 Lakeside Ave., Yuba, WA 98902 (509) 26-4095 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY

MATRIX	NO. OF CONTAINERS	TESTS TO PERFORM
WATER	1	
SOIL	5	
SPECIFY	5	
VOC (524.2)		
TOTAL CW (200.8)		
CLO4 - (314.0)		

LAB #	SAMPLE ID / LOCATION	DATE	TIME	MATRIX	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1	MW-23-4	2/8/08	737	W	1		
2	MW-23-3			S	5		
3	MW-23-2			S	5		
4	MW-23-1			S	5		
5	EB-11-2/8/08			S	5		
10	TR-11-2/8/08			W	2		
6	SB-1-1008			S	5		

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: BATTLE ADDRESS: 505 KIRBY AVE.  
 ATTN: GERARD TORRINS CITY, STATE, ZIP: COLUMBIAS, OH 43201

RECEIVED BY (SIGN AND PRINT): Ma-Max / Mares Mendoza DATE: 2/8/08  
13:00

RECEIVED BY (SIGN AND PRINT): Ma-Max / Mares Mendoza DATE: 2/8/08  
13:00

RECEIVED BY (SIGN AND PRINT): Ma-Max / Mares Mendoza DATE: 2/8/08  
13:00

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

**TOTAL NO. OF CONTAINERS**

TURNAROUND REQUEST:  
 STD. 10-14 WORKING DAYS  
 \* 24-HRS. (100% SUR)  
 \* 72-HRS. (75% SUR)  
 \* 5 DAYS (60% SUR)  
 OTHER: \_\_\_\_\_  
 TEMP: \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  NA

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

6251

COMPANY: BATELLE  
 ADDRESS: 3990 OLD TOWN AVE, C-205  
SAN DIEGO, CA 92110  
 ATTENTION: DAVID CANVER  
 PROJECT NAME: SPL GW MON 1808  
 PROJECT CONTACT: DAVID CANVER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/P.O. NO.: 6486090 / 214319

CHAIN OF CUSTODY RECORD

44230


SDG # JPL94

PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_

SUBMITTED AT: \_\_\_\_\_

TESTS TO PERFORM

**Laucks**  
 Testing Laboratories, Inc.   
 940 South Henry St., Seattle, WA 98108 (206) 361-5066 FAX: 206-361-5063  
 1106 Eastwick Ave., Lakeland, WA 98902 (509) 326-4495 FAX: 509-326-1265

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS
	<u>FOR (24.2)</u>
	<u>TOTAL CW (200.8)</u>
	<u>CL04 (314.0)</u>

LAB #	SAMPLE ID / LOCATION	DATE	TIME
7	MW-5	02/11/08	0824
8	MW-6	02/11/08	1125
9	TB-012-02/11/08	02/11/08	—

LAB #	SAMPLE ID / LOCATION	DATE	TIME	MATRIX	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS COMMENTS, SPECIAL INSTRUCTIONS
7	MW-5	02/11/08	0824	W	5 X X X		
8	MW-6	02/11/08	1125	W	5 X X X		
9	TB-012-02/11/08	02/11/08	—	W	2 X		TSP 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: BATELLE ADDRESS: 505 KINLA AVE.  
 ATTN: GERALD THURKINS CITY, STATE, ZIP: COLUMBUS OH 43201

REPLINQUISHED BY (SIGN AND PRINT): CHASE-BROOKMAN DATE/TIME: 02/11/08 1300  
 RECEIVED BY (SIGN AND PRINT): Krishn Klein DATE/TIME: 2-12-08 0630

**\* 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 (50% SUR)  
 OTHER \_\_\_\_\_  
 TEMP. \_\_\_\_\_  
 CUSTODY SEAL  Y  N  N/A

**FORMS SUMMARY**

SDG JPL94

VOLATILES ANALYSIS

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23-3

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-002  
 Lab File ID: B0213022.D  
 Date Collected: 02/08/2008  
 Date/Time Analyzed: 02/13/2008 16:36  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23-3

Lab Name: Pace Analytical Services, Inc. (S

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL94-002

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213022.D

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

Date Collected: 02/08/2008

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

Date/Time Analyzed: 02/13/2008 16:36

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:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23-3

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-002  
 Lab File ID: B0213022.D  
 Date Collected: 02/08/2008  
 Date/Time Analyzed: 02/13/2008 16:36  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-23-2

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-003  
 Lab File ID: B0213023.D  
 Date Collected: 02/08/2008  
 Date/Time Analyzed: 02/13/2008 17:06  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.45	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	0.52	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23-2

Lab Name: Pace Analytical Services, Inc. (S

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL94-003

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213023.D

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

Date Collected: 02/08/2008

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

Date/Time Analyzed: 02/13/2008 17:06

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:	
		<u>ug/L</u>	<u>Q</u>
108-88-3	Toluene	0.50	U
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.33	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



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23-2

Lab Name: Pace Analytical Services, Inc. (S

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL94-003

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213023.D

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

Date Collected: 02/08/2008

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

Date/Time Analyzed: 02/13/2008 17:06

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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-23-1

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-004  
 Lab File ID: B0213024.D  
 Date Collected: 02/08/2008  
 Date/Time Analyzed: 02/13/2008 17:32  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.48	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	1.6	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23-1

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-004  
 Lab File ID: B0213024.D  
 Date Collected: 02/08/2008  
 Date/Time Analyzed: 02/13/2008 17:32  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23-1

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-004  
 Lab File ID: B0213024.D  
 Date Collected: 02/08/2008  
 Date/Time Analyzed: 02/13/2008 17:32  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

EB-11-2/8/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-005  
 Lab File ID: B0213025.D  
 Date Collected: 02/08/2008  
 Date/Time Analyzed: 02/13/2008 17:59  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-11-2/8/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-005  
 Lab File ID: B0213025.D  
 Date Collected: 02/08/2008  
 Date/Time Analyzed: 02/13/2008 17:59  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-11-2/8/08

Lab Name: Pace Analytical Services, Inc. (S

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL94-005

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213025.D

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

Date Collected: 02/08/2008

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

Date/Time Analyzed: 02/13/2008 17:59

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	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

SB-1-IQ08

Lab Name: Pace Analytical Services, Inc. (S

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL94-006

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213026.D

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

Date Collected: 02/08/2008

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

Date/Time Analyzed: 02/13/2008 18:28

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:	
		<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



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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-1-IQ08

Lab Name: Pace Analytical Services, Inc. (S

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL94-006

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213026.D

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

Date Collected: 02/08/2008

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

Date/Time Analyzed: 02/13/2008 18:28

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:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-1-IQ08

Lab Name: Pace Analytical Services, Inc. (S

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL94-006

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213026.D

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

Date Collected: 02/08/2008

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

Date/Time Analyzed: 02/13/2008 18:28

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: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-5

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-007  
 Lab File ID: B0213027.D  
 Date Collected: 02/11/2008  
 Date/Time Analyzed: 02/13/2008 18:54  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-5

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-007  
 Lab File ID: B0213027.D  
 Date Collected: 02/11/2008  
 Date/Time Analyzed: 02/13/2008 18:54  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-5

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-007  
 Lab File ID: B0213027.D  
 Date Collected: 02/11/2008  
 Date/Time Analyzed: 02/13/2008 18:54  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-6

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-008  
 Lab File ID: B0213028.D  
 Date Collected: 02/11/2008  
 Date/Time Analyzed: 02/13/2008 19:24  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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	0.40	J
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	0.83	
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	0.62	
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	2.5	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-6

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-008  
 Lab File ID: B0213028.D  
 Date Collected: 02/11/2008  
 Date/Time Analyzed: 02/13/2008 19:24  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-6

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-008  
 Lab File ID: B0213028.D  
 Date Collected: 02/11/2008  
 Date/Time Analyzed: 02/13/2008 19:24  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-12-02/11/08

Lab Name: Pace Analytical Services, Inc. (S

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL94-009

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213012.D

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

Date Collected: 02/11/2008

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

Date/Time Analyzed: 02/13/2008 12:00

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	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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-12-02/11/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-009  
 Lab File ID: B0213012.D  
 Date Collected: 02/11/2008  
 Date/Time Analyzed: 02/13/2008 12:00  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-12-02/11/08

Lab Name: Pace Analytical Services, Inc. (S

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL94-009

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213012.D

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

Date Collected: 02/11/2008

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

Date/Time Analyzed: 02/13/2008 12:00

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:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-11-2/8/08

Lab Name: Pace Analytical Services, Inc. (S

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL94-010

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213013.D

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

Date Collected: 02/08/2008

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

Date/Time Analyzed: 02/13/2008 12:26

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	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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-11-2/8/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL94  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-010  
 Lab File ID: B0213013.D  
 Date Collected: 02/08/2008  
 Date/Time Analyzed: 02/13/2008 12:26  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-11-2/8/08

Lab Name: Pace Analytical Services, Inc. (S

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL94-010

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213013.D

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

Date Collected: 02/08/2008

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

Date/Time Analyzed: 02/13/2008 12:26

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:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-23-3

Lab Name: Pace Analytical Services, Inc. (

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL94-002

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213022.D

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

Date Collected: 02/08/2008

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

Date Analyzed: 02/13/2008

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

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-23-2

Lab Name: Pace Analytical Services, Inc. (  
 SDG No.: JPL94  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-003  
 Lab File ID: B0213023.D  
 Date Collected: 02/08/2008  
 Date Analyzed: 02/13/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-23-1

Lab Name: Pace Analytical Services, Inc. (

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL94-004

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213024.D

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

Date Collected: 02/08/2008

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

Date Analyzed: 02/13/2008

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

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-11-2/8/08

Lab Name: Pace Analytical Services, Inc. (  
 SDG No.: JPL94  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-005  
 Lab File ID: B0213025.D  
 Date Collected: 02/08/2008  
 Date Analyzed: 02/13/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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.

SB-1-IQ08

Lab Name: Pace Analytical Services, Inc. (

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL94-006

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213026.D

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

Date Collected: 02/08/2008

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

Date Analyzed: 02/13/2008

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

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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23				
24				
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26				
27				
28				
29				
30				

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-5

Lab Name: Pace Analytical Services, Inc. (  
 SDG No.: JPL94  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: JPL94-007  
 Lab File ID: B0213027.D  
 Date Collected: 02/11/2008  
 Date Analyzed: 02/13/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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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30					

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-6

Lab Name: Pace Analytical Services, Inc. (

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL94-008

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213028.D

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

Date Collected: 02/11/2008

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

Date Analyzed: 02/13/2008

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

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

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-12-02/11/08

Lab Name: Pace Analytical Services, Inc. (

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL94-009

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213012.D

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

Date Collected: 02/11/2008

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

Date Analyzed: 02/13/2008

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
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07					
08					
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29					
30					

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-11-2/8/08

Lab Name: Pace Analytical Services, Inc. (

Contract: JPL Groundwater Monitorin

SDG No.: JPL94

Run Sequence: R025885

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL94-010

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0213013.D

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

Date Collected: 02/08/2008

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

Date Analyzed: 02/13/2008

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
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26					
27					
28					
29					
30					

Comments:

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B021308MVOWB2

Lab Name: Pace Analytical Services, Inc. (  
 SDG No.: JPL94  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025885  
 Lab Sample ID: B021308MVOWB2  
 Lab File ID: B0213011.D  
 Date Collected: \_\_\_\_\_  
 Date Analyzed: 02/13/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
ug/L

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



**FORMS SUMMARY**

**JPL94**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-23-4

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL94

Matrix (soil/water): Water

Lab Sample ID: JPL94-001

Level (low/med): LOW

Date Received: 02/12/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	3.17		E	M	R026153

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

Color After: Colorless Clarity After: Clear Artifacts: No

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

Date Printed: 2/28/2008 14:45

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-23-3

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL94

Matrix (soil/water): Water

Lab Sample ID: JPL94-002

Level (low/med): LOW

Date Received: 02/12/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	5.89			M	R026153

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

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

Comment \_\_\_\_\_

\_\_\_\_\_

Date Printed: 2/28/2008 14:45

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-23-2

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL94

Matrix (soil/water): Water

Lab Sample ID: JPL94-003

Level (low/med): LOW

Date Received: 02/12/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	6.01			M	R026153

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

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

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

Date Printed: 2/28/2008 14:45

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-23-1

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL94

Matrix (soil/water): Water

Lab Sample ID: JPL94-004

Level (low/med): LOW

Date Received: 02/12/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	8.24			M	R026153

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

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

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

Date Printed: 2/28/2008 14:45

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

EB-11-2/8/08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL94

Matrix (soil/water): Water

Lab Sample ID: JPL94-005

Level (low/med): LOW

Date Received: 02/12/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.00			M	R026153

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

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

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

Date Printed: 2/28/2008 14:45

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

SB-1-IQ08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL94

Matrix (soil/water): Water

Lab Sample ID: JPL94-006

Level (low/med): LOW

Date Received: 02/12/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	1.14			M	R026153

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

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

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

Date Printed: 2/28/2008 14:45

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-5

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL94

Matrix (soil/water): Water

Lab Sample ID: JPL94-007

Level (low/med): LOW

Date Received: 02/12/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.65			M	R026153

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

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

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

Date Printed: 2/28/2008 14:45



INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-6

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL94

Matrix (soil/water): Water

Lab Sample ID: JPL94-008

Level (low/med): LOW

Date Received: 02/12/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	5.09		E	M	R026153

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

Color After: Colorless Clarity After: Clear Artifacts: No.

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

Date Printed: 2/28/2008 14:45

## **Perchlorate Data**

### **Subcontracted to Weck Laboratories**

**JPL89  
JPL90  
JPL91  
JPL92  
JPL93  
JPL94  
EPTM18**

## QA/OC Data Package

### EPA Method 314 – Perchlorate

Lab ID number: 8022735 (01-14,15-20,22-24,26,27,32-34)

#### 1. Case Narrative

The samples were received on ice and they were in good condition. The temperature upon receipt at the laboratory was 2.3°C. Due to autosampler malfunction, samples 8022735-01 thru -08 (Weck Lab IDs) were analyzed one day past hold time. All other samples were completed within holding time. Also, Weck Lab IDs did not numerically correspond directly to Client's sample IDs, so samples -01 thru -08 were not run in order. All QA/QC determinations were within acceptance ranges.

The following acronyms are used in this data package:

IPC: Instrument Performance Check, is a calibration check standard prepared in a matrix of high conductivity. It defines the highest background that a sample can have to be analyzed directly; samples with higher backgrounds need to be diluted.

IPC: Instrument Performance Check prepared with high conductivity matrix (20 ppb).

LRB: Laboratory Reagent Blank or Method Blank.

CCV: Continuing Calibration Check Standard at low-level (2 ppb) and mid-level (20 ppb or 40 ppb).

Note: CCVs start with 2 ppb, then alternate between 20 and 40 ppb through the batch.

#### 2. QC Summaries

See Quality Control Report

#### 3. Sample Data

3.1 Analytical results summary: see Certificate of Analysis.

3.2 Chromatograms, quantitation reports and injection log for samples and QC runs for the batch: See Appendix 1.

3.3 Chain of custody record: A copy is included with the Certificate of Analysis.

3.4 Copies of bench sheets and secondary review checklist: Appendix 2.

#### 4. Calibration Data

4.1 Initial Calibration summary and chromatograms: See Appendix 3.

4.2 Continuing calibration summary and chromatograms: See Appendix 1.

5. Raw Data

- 5.1 Chromatograms and quantitation for MS/MSD and LCS: See Appendix 1.
- 5.2 Bench sheets: See Appendix 2.

6. Standards Preparation Records

- 6.1 See Appendix 4 for copies of standards and solutions preparation

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: **Pace Analytical** Address: **940 S. Havens St. Seattle, WA 98108** Email To: **Karvag@pacelabs.com** Phone: **206-461-1011** Fax: **206-461-1012** Requested Due Date/TAT: \_\_\_\_\_

Section B Required Project Information: Report To: **Kara Godineaux** Copy To: \_\_\_\_\_ Purchase Order No.: \_\_\_\_\_ Project Name: **SPL / EPTM** Project Number: \_\_\_\_\_

Section C Invoice Information: Attention: **Kara Godineaux** Company Name: **Pace Analytical** Address: \_\_\_\_\_ Pace Quote #: \_\_\_\_\_ Pace Project Manager: **Kara Godineaux** Pace Profile #: \_\_\_\_\_

REGULATORY AGENCY: \_\_\_\_\_ NPDES: \_\_\_\_\_ GROUND WATER: \_\_\_\_\_ DRINKING WATER: \_\_\_\_\_ UST: \_\_\_\_\_ RCRA: \_\_\_\_\_ OTHER: \_\_\_\_\_ Site Location: \_\_\_\_\_ STATE: \_\_\_\_\_

Section D Required Client Information	Matrix Codes MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis/Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
			COMPOSITE START	COMPOSITE END/AVG							
SPL 89-005			01/31	08:11		1		314.0 Perchlorate			MW-17-4
SPL 89-006			01/31	08:54		1					MW-17-3
SPL 89-008			01/31	09:11		1					EB-5-01/31/08
SPL 89-007			01/31	09:20		1					MW-17-2
SPL 89-001			01/31	10:50		1					MW-18-5
SPL 89-002			01/31	11:38		1					MW-18-4
SPL 89-003			01/31	12:20		1					MW-18-3
SPL 89-004			01/31	12:51		1					MW-18-2
SPL 90-001			02/01	09:01		1					MW-19-5
SPL 90-002			02/01	09:21		1					MW-19-4
SPL 90-003			02/01	09:45		1					MW-19-3
SPL 90-004			02/01	09:57		1					MW-19-2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Please also MS/MSD on	<i>[Signature]</i> / Pace	02-26-08		<i>[Signature]</i>	2/26/08	9:50
Samples: SPL 89-007						

Temp in °C \_\_\_\_\_

Received on Ice (Y/N) \_\_\_\_\_

Custody Sealed Cooler (Y/N) \_\_\_\_\_

Samples Intact (Y/N) \_\_\_\_\_

Sampler Name and Signature: \_\_\_\_\_

Print Name of Sampler: \_\_\_\_\_

Signature of Sampler: \_\_\_\_\_

Date Signed (MM/DD/YY): \_\_\_\_\_

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to this change of 1.5% per month for late payment and void within 90 days.

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A** Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: Pace Analytical Report To: Kara Godineaux Attention: Kara Godineaux Company Name: Pace Analytical Address: 940 S. Haney St. Seattle, WA 98108 Purchase Order No.: 119480 Email To: Kara@traceanalytical.com Project Name: JPL/EPTM Trace Profile #: Kara Godineaux Phone: 206-461-8108 Fax: 206-461-8109 Requested Due Date/TAT: JPL/EPTM Regulatory Agency: NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: STATE

ITEM #	Section D Required Client Information Matrix Code MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	Matrix Code MATRIX / CODE DW WT WW P SL CL WP AR TS OT	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Preservatives	Analysis Test	Y/N	Requested Analysis: Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	JPL90-006		02/01	10:20				1			314.0 Perchlorate				EB-6-02/01/08
2	JPL90-005		02/01	10:25				1							MW-19-1
3	JPL90-008		02/04	07:47				1							MW-14-5
4	JPL90-009		02/04	08:09				1							MW-14-4
5	JPL90-010		02/04	08:34				1							MW-14-3
6	JPL90-011		02/04	09:05				1							MW-14-2
7	JPL90-013		02/04	09:26				1							ES-7-2/4/08
8	JPL90-012		02/04	09:40				1							MW-14-1
9	JPL91-007		02/05	00:00				1							DUPE-2-10/08
10	JPL91-004		02/05	07:42				1							MW-4-3
11	JPL91-005		02/05	08:18				1							MW-4-2
12	JPL91-008		02/05	08:40				1							ES-8-2/5/08
ADDITIONAL COMMENTS: <u>Please do MS/MSD on samples: JPL90-012</u>															
RELINQUISHED BY / AFFILIATION: <u>Paula Swartz / Pace</u> DATE: <u>02-26-08</u> TIME: <u>2:20</u> ACCEPTED BY / AFFILIATION: <u>Sam Johnson</u> DATE: <u>2/20/08</u> TIME: <u>9:50</u>															
SAMPLER NAME AND SIGNATURE: <u>ORIGINAL</u>															
PRINT NAME OF SAMPLER: <u>Paula Swartz</u>															
SIGNATURE OF SAMPLER: <u>[Signature]</u>															
DATE Signed (MM/DD/YY): <u>2-20-08</u>															
Temp in °C															
Received on Ice (Y/N)															
Custody Sealed Cooler (Y/N)															
Samples Intact (Y/N)															

\*Important Note: By signing this form you are accepting Trace's NET 30 day payment terms and agreeing to the charges of 1.5% per month for any invoices not paid within 30 days

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:

Company: Pace Analytical  
Address: 940 S. Harney St.  
Seattle, WA 98108  
mail To: Karag@paceanalytical.com  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

**Section B**  
Required Project Information:

Report To: Kara Godineaux  
Copy To: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: JPL/EPTM  
Project Number: \_\_\_\_\_

**Section C**  
Invoice Information:

Attention: Kara Godineaux  
Company Name: Pace Analytical  
Address: \_\_\_\_\_  
Pace Quota \_\_\_\_\_  
Reference: \_\_\_\_\_  
Pace Project Manager: Kara Godineaux  
Pace Profile #: \_\_\_\_\_

**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_

Site Location: \_\_\_\_\_  
STATE: \_\_\_\_\_

Requested Analysis/Filtered (Y/N): \_\_\_\_\_

**Section D**  
Required Client Information

**MATRIX CODES**  
Drinking Water DW  
Water W/T  
Waste Water WW  
Product P  
Soil/Solid SL  
Oil OL  
Wipe WP  
Air AR  
Tissue TS  
Other OT

**SAMPLE ID**  
(A-Z, 0-9, /)  
Sample IDs MUST BE UNIQUE

Request Client Information	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives						Analysis Test	Y/N	Requested Analysis/Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab ID
			COMPOSITE START	COMPOSITE END/NO.								H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol					
JPL91-001					02/05	08:53				1												MW-4-1
JPL91-001					02/05	10:50				1												MW-3-4
JPL92- JPL91-002					02/05	11:22				1												MW-3-3
JPL91-003					02/05	11:49				1												MW-3-2
EPTM18-001					02/05	13:50				1												GACIN
EPTM18-003					02/05	14:00				1												EBRTN
EPTM18-004					02/05	14:05				1												EBRTN DUP
EPTM18-005					02/05	14:10				1												EBRTN
JPL92-008					02/06	00:00				1												DUPE-3-1008
JPL92-003					02/06	07:56				1												MW-25-5
JPL92-004					02/06	08:32				1												MW-25-4
JPL92-005					02/06	09:01				1												MW-25-3

ADDITIONAL COMMENTS: \_\_\_\_\_

RELINQUISHED BY/AFFILIATION: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

ACCEPTED BY/AFFILIATION: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

SAMPLE CONDITIONS: \_\_\_\_\_

Please do MS/MSD on 2 samples: NO samples

Relinquished by: Pace Date: 02-26-08 Time: \_\_\_\_\_

Accepted by: Jamy Limer Date: 2/27/08 Time: 9:50

**ORIGINAL**

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_

DATE Signed (MM/DD/YY): \_\_\_\_\_

Temp in °C \_\_\_\_\_

Received on Ice (Y/N) \_\_\_\_\_

Custody Sealed Cooler (Y/N) \_\_\_\_\_

Samples Intact (Y/N) \_\_\_\_\_

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to the charges of 1.5% per month for any invoices not paid within 90 days.



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:
Company: <b>PACE Analytical</b>	Report To: <b>Kava Godineaux</b>	Attention: <b>Kava Godineaux</b>
Address: <b>9405 Haines St.</b>	Copy To:	Company Name: <b>Pace Analytical</b>
City: <b>Seattle, WA 98108</b>	Purchase Order No.:	Address:
Phone: <b>Kava@paceanalytical.com</b>	Project Name: <b>JPL/EPTM</b>	Pace Order Manager: <b>Kava Godineaux</b>
Fax:	Project Number:	Reference:
Requested Due Date/TAT:		Pace Profile #:
		REGULATORY AGENCY:
		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
		<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER
		Site Location:
		STATE:

Section D Required Client Information	Matrix Codes MATRIX & CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS
				COMPOSITE START	COMPOSITE END/GRAB			H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol				
1 JPL92-006	Drinking Water	DW	02/06 09:31				1									MW-25-2	
2 JPL92-009	Water	WT	02/06 10:10				1									EB-9-2/6/08	
3 JPL92-007	Waste Water	WW	02/06 10:26				1									MW-25-1	
4 JPL92-001	Product	P	02/06 11:48				1									MW-26-2	
5 JPL92-002	Soil/Solid	SL	02/06 12:16				1									MW-26-1	
6 JPL93-005	Oil	OL	02/07 00:00				1									MW-24-1	
7 JPL93-006	Wipe	WP	02/07 00:00				1									MW-24-2	
8 JPL93-002	Air	AR	02/07 08:21				1									MW-24-3	
9 JPL93-003	Other	OT	02/07 08:54				1									MW-24-2	
10 JPL93-007			02/07 09:34				1									EB-10-2/7/08	
11 JPL93-004			02/07 09:50				1									MW-24-1	
12 JPL94-002			02/08 08:01				1									MW-23-3	

Additional Comments: **please do MS/MSD on samples: JPL92-006**

Relinquished By / Affiliation: **Carl Strass / Pace**

Date: **02-26-08**

Time: **2:20**

Accepted By / Affiliation: **Joanna Ginner**

Date: **2/27/08**

Time: **9:50**

**ORIGINAL**

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_

PRINT Name of SAMPLER: \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_

DATE Signed (MM/DD/YY): \_\_\_\_\_

Temp in °C: \_\_\_\_\_

Received on Ice (Y/N): \_\_\_\_\_

Custody Sealed Cooler (Y/N): \_\_\_\_\_

Samples Intact (Y/N): \_\_\_\_\_

Important Note: By sharing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-020REV.07. 15-MAY-2007



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:  
Company: Pace Analytical  
Address: 9410 S. Havner St.  
City: Seattle WA Zip: 98108  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Requested Date/Time: \_\_\_\_\_

**Section B**  
Required Project Information:  
Report To: Kara Godineaux  
Copy To: \_\_\_\_\_  
Purchase Order No.: \_\_\_\_\_  
Project Name: JPL/EPTM  
Project Number: \_\_\_\_\_

**Section C**  
Invoice Information:  
Attention: Kara Godineaux  
Company Name: Pace Analytical  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Pace Quote Reference: \_\_\_\_\_  
Pace Project Manager: Kara Godineaux  
Pace Profile #: \_\_\_\_\_

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
Site Location: \_\_\_\_\_  
STATE: \_\_\_\_\_

Section D	Matrix Codes	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Face Project No./ Lab I.D.
	(A-Z, 0-9 / - / ) Sample IDs MUST BE UNIQUE													
JPL94-002				02/08	08:01				1		X		MW-23-3	
JPL94-003				02/08	08:31				1		X		MW-23-2	
JPL94-005				02/08	08:56	08:49			1		X		EB-11-2/8/08	
JPL94-006				02/08	08:56	CS022608			1		X		SB-1-10/08	
JPL94-004				02/08	09:09				1		X		MW-23-1	
JPL94-007				02/11	08:24				1		X		MW-5	
JPL94-008				02/11	11:25				1		X		MW-6	
JPL95-003				02/12	00:00				1		X		DUPE-6-10/08	
JPL95-001				02/12	09:06				1		X		MW-7	
JPL95-002				02/12	11:28				1		X		MW-6	
EPTM19-001				02/12	13:00				1		X		GACTIN	
EPTM19-003				02/12	13:15				1		X		FRIN	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
please do MS/MSD on samples: JPL94-004	Carin Shivers / Pace	02-26-08		James Dwyer	2/26/08	9:30	

TEMPERATURE	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

**ORIGINAL**

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to the charges of 1.5% per month for any balances not paid within 30 days.

F-2011-0207rev 07 15 Jan 2007



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
 Required Client Information:  
 Company: Pace Analytical  
 Address: 940 S. Harris St.  
 Seattle, WA 98108  
 Email To: Karyn@paceanalytical.com  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Requested Due Date/TAT: \_\_\_\_\_

**Section B**  
 Required Project Information:  
 Report To: Kara Godineaux  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: JPL / EPTM  
 Project Number: \_\_\_\_\_

**Section C**  
 Invoice Information:  
 Attention: Kara Godineaux  
 Company Name: Pace Analytical  
 Address: \_\_\_\_\_  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: Kara Godineaux  
 Pace Profile #: \_\_\_\_\_

**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_

Site Location: \_\_\_\_\_ STATE: \_\_\_\_\_

Requested Analysis Filtered: (Y/N) \_\_\_\_\_

ITEM #	Section D Required Client Information  SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX CODE Drinking Water Waste Water Product Self-Solid Oil Wipe Air Tissue Other	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered: (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
					DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH					Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
1	EPTM19-004				02/12	13:15		1								X		314.0 Perchlorate		FBKINDUP
2	EPTM19-005				02/12	13:30		1								X				FBKINDUP
3	JPL96-003				02/13	00:00		1								X				FRRODT
4	JPL96-001				02/13	08:30		1								X				DUPE-7-IC008
5	JPL96-002				02/13	10:53		1								X				MLV-13
6	JPL97-001				02/14	08:17		1								X				MLV-8
7	EPTM20-001				02/20	16:00		1								X				MLW-10
8	EPTM20-003				02/20	16:30		1								X				GACTN
9	EPTM20-004				02/20	16:30		1								X				FBRIDN
10	PGMW080201-001				02/08	11:00		1								X				FBRIDUP
11								1								X				Cann. Sp. - 020808
12								1								X				

**ADDITIONAL COMMENTS**

RELINQUISHED BY / AFFILIATION: Carl S. Pace DATE: 02-26-08

ACCEPTED BY / AFFILIATION: David J. Moore DATE: 2/27/08 TIME: 9:50

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_

DATE Signed (MM/DD/YY): \_\_\_\_\_

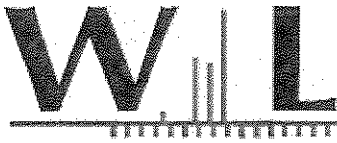
Temp In °C \_\_\_\_\_

Received on Ice (Y/N) \_\_\_\_\_

Custody Sealed Cooler (Y/N) \_\_\_\_\_

Samples Intact (Y/N) \_\_\_\_\_

ORIGINAL



14859 E. Clark Ave., Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634  
info@wecklabs.com www.wecklabs.com

**CERTIFICATE OF ANALYSIS**

**Client:** Pace Analytical Services  
940 South Harney Street  
Seattle, WA 98108  
Attention: Kara Godineaux  
  
Phone: (206) 957-2422  
Fax: (206) 767-5063

**Report Date:** 03/11/08 12:32  
**Received Date:** 02/27/08 09:50  
**Turn Around:** Normal

**Work Order #:** 8022735

**Client Project:** JPL/EPTM

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Kara Godineaux :

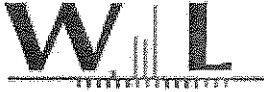
Enclosed are the results of analyses for samples received 02/27/08 09:50 with the Chain of Custody document. The samples were received in good condition. The samples were received at 2.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Kim G Tu

Project Manager





Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

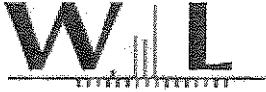
### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
JPL89-005	Client		8022735-01	Water	01/31/08 08:11
JPL89-006	Client		8022735-02	Water	01/31/08 08:54
JPL89-008	Client		8022735-03	Water	01/31/08 09:11
JPL89-007	Client		8022735-04	Water	01/31/08 09:20
JPL89-001	Client		8022735-05	Water	01/31/08 10:50
JPL89-002	Client		8022735-06	Water	01/31/08 11:38
JPL89-003	Client		8022735-07	Water	01/31/08 12:20
JPL89-004	Client		8022735-08	Water	01/31/08 12:51
JPL90-001	Client		8022735-09	Water	02/01/08 09:01
JPL90-002	Client		8022735-10	Water	02/01/08 09:21
JPL90-003	Client		8022735-11	Water	02/01/08 09:45
JPL90-004	Client		8022735-12	Water	02/01/08 09:59
JPL90-006	Client		8022735-13	Water	02/01/08 10:20
JPL90-005	Client		8022735-14	Water	02/01/08 10:25
JPL90-008	Client		8022735-15	Water	02/04/08 07:47
JPL90-009	Client		8022735-16	Water	02/04/08 08:09
JPL90-010	Client		8022735-17	Water	02/04/08 08:34
JPL90-011	Client		8022735-18	Water	02/04/08 09:05
JPL90-013	Client		8022735-19	Water	02/04/08 09:26
JPL90-012	Client		8022735-20	Water	02/04/08 09:40
JPL91-007	Client		8022735-21	Water	02/05/08 00:00
JPL91-004	Client		8022735-22	Water	02/05/08 07:42
JPL91-005	Client		8022735-23	Water	02/05/08 08:18
JPL91-008	Client		8022735-24	Water	02/05/08 08:40
JPL91-006	Client		8022735-25	Water	02/05/08 08:53
JPL91-001	Client		8022735-26	Water	02/05/08 10:50
JPL91-002	Client		8022735-27	Water	02/05/08 11:22
JPL91-003	Client		8022735-28	Water	02/05/08 11:49
EPTM18-001	Client		8022735-29	Water	02/05/08 13:50
EPTM18-003	Client		8022735-30	Water	02/05/08 14:00
EPTM18-004	Client		8022735-31	Water	02/05/08 14:05

Weck Laboratories, Inc  
Kim G Tu, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**Sub PER - 11**



Weck Laboratories, Inc.  
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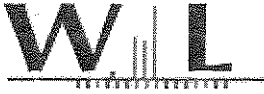
Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
EPTM18-005	Client		8022735-32	Water	02/05/08 14:10
JPL92-008	Client		8022735-33	Water	02/06/08 00:00
JPL92-003	Client		8022735-34	Water	02/06/08 07:56
JPL92-004	Client		8022735-35	Water	02/06/08 08:32
JPL92-005	Client		8022735-36	Water	02/06/08 09:01
JPL92-006	Client		8022735-37	Water	02/06/08 09:31
JPL92-009	Client		8022735-38	Water	02/06/08 10:10
JPL92-007	Client		8022735-39	Water	02/06/08 10:26
JPL92-001	Client		8022735-40	Water	02/06/08 11:48
JPL92-002	Client		8022735-41	Water	02/06/08 12:16
JPL93-005	Client		8022735-42	Water	02/07/08 00:00
JPL93-006	Client		8022735-43	Water	02/07/08 00:00
JPL93-002	Client		8022735-44	Water	02/07/08 08:21
JPL93-003	Client		8022735-45	Water	02/07/08 08:54
JPL93-007	Client		8022735-46	Water	02/07/08 09:34
JPL93-004	Client		8022735-47	Water	02/07/08 09:50
JPL94-002	Client		8022735-48	Water	02/08/08 08:01



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 14859 E. Clark Ave.  
 Industry, CA 91745  
 Phone 626.336.2139 Fax 626.336.2634

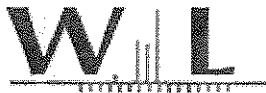
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
--	--	--

JPL89-005 8022735-01 (Water)

Date Sampled: 01/31/08 08:11

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	1.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04, J



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

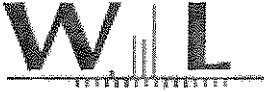
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL89-006 8022735-02 (Water)

Date Sampled: 01/31/08 08:54

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	24	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



Weck Laboratories, Inc.  
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 Industry, CA 91745  
 Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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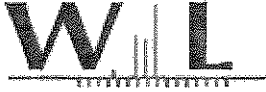
JPL89-008 8022735-03 (Water)

Date Sampled: 01/31/08 09:11

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04





Weck Laboratories, Inc.  
 14859 E. Clark Ave.  
 Industry, CA 91745  
 Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
 940 South Harney Street  
 Seattle WA, 98108

Report ID: 8022735  
 Project ID: JPL/EPTM

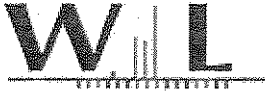
Date Received: 02/27/08 09:50  
 Date Reported: 03/11/08 12:32

JPL89-007 8022735-04 (Water)

Date Sampled: 01/31/08 09:20

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	8.8	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

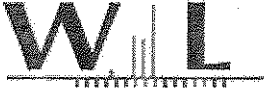
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL89-001 8022735-05 (Water)

Date Sampled: 01/31/08 10:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

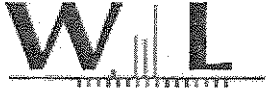
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL89-002 8022735-06 (Water)

Date Sampled: 01/31/08 11:38

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	28	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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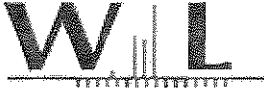
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL89-003 8022735-07 (Water)

Date Sampled: 01/31/08 12:20

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	29	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04



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Project ID: JPL/EPTM

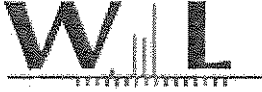
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JPL89-004 8022735-08 (Water)

Date Sampled: 01/31/08 12:51

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.98	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	O-04, J



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Project ID: JPL/EPTM

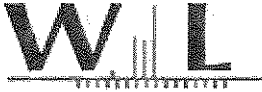
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JPL90-001 8022735-09 (Water)

Date Sampled: 02/01/08 09:01

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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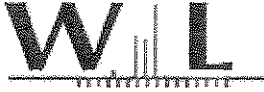
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JPL90-002 8022735-10 (Water)

Date Sampled: 02/01/08 09:21

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	1.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	J



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Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL90-003 8022735-11 (Water)

Date Sampled: 02/01/08 09:45

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	7.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	





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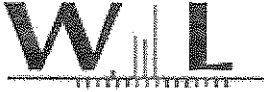
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JPL90-004 8022735-12 (Water)

Date Sampled: 02/01/08 09:59

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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 Project ID: JPL/EPTM

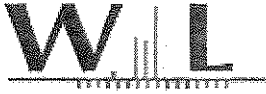
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JPL90-006 8022735-13 (Water)

Date Sampled: 02/01/08 10:20

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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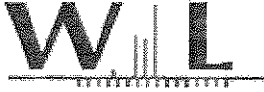
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JPL90-005 8022735-14 (Water)

Date Sampled: 02/01/08 10:25

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	2.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0010	02/29/08	02/29/08	mac	



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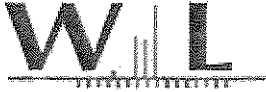
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JPL90-008 8022735-15 (Water)

Date Sampled: 02/04/08 07:47

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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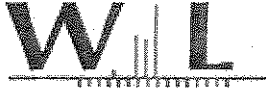
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JPL90-009 8022735-16 (Water)

Date Sampled: 02/04/08 08:09

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.5	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
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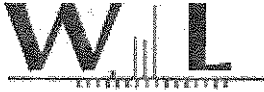
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JPL90-010 8022735-17 (Water)

Date Sampled: 02/04/08 08:34

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	6.6	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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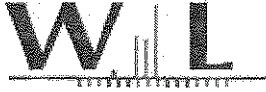
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Date Reported: 03/11/08 12:32

JPL90-011 8022735-18 (Water)

Date Sampled: 02/04/08 09:05

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Project ID: JPL/EPTM

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Date Reported: 03/11/08 12:32

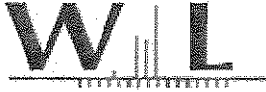
JPL90-013 8022735-19 (Water)

Date Sampled: 02/04/08 09:26

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	





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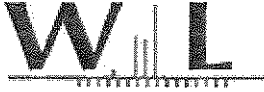
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL90-012 8022735-20 (Water)

Date Sampled: 02/04/08 09:40

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.3	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

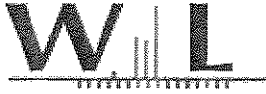
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Date Reported: 03/11/08 12:32

JPL91-007 8022735-21 (Water)

Date Sampled: 02/05/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	100	0.90	ug/l	4.0	2	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
 Project ID: JPL/EPTM

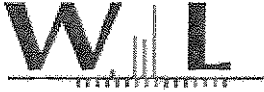
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JPL91-004 8022735-22 (Water)

Date Sampled: 02/05/08 07:42

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.74	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	J



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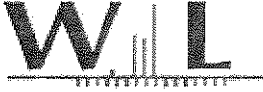
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JPL91-005 8022735-23 (Water)

Date Sampled: 02/05/08 08:18

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

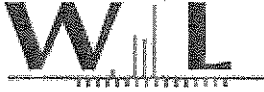
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JPL91-008 8022735-24 (Water)

Date Sampled: 02/05/08 08:40

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

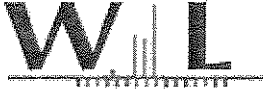
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Date Reported: 03/11/08 12:32

JPL91-006 8022735-25 (Water)

Date Sampled: 02/05/08 08:53

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	100	0.90	ug/l	4.0	2	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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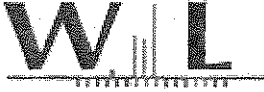
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JPL91-001 8022735-26 (Water)

Date Sampled: 02/05/08 10:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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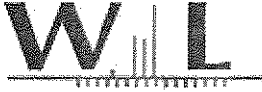
JPL91-002 8022735-27 (Water)

Date Sampled: 02/05/08 11:22

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	





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Project ID: JPL/EPTM

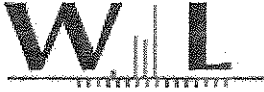
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JPL91-003 8022735-28 (Water)

Date Sampled: 02/05/08 11:49

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	240	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

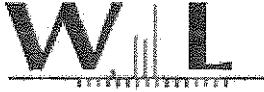
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EPTM18-001 8022735-29 (Water)

Date Sampled: 02/05/08 13:50

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	260	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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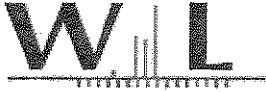
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EPTM18-003 8022735-30 (Water)

Date Sampled: 02/05/08 14:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	310	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

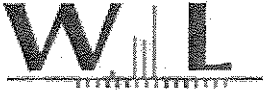
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

EPTM18-004 8022735-31 (Water)

Date Sampled: 02/05/08 14:05

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	300	2.2	ug/l	10	5	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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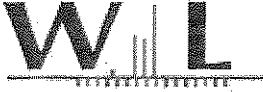
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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EPTM18-005 8022735-32 (Water)

Date Sampled: 02/05/08 14:10

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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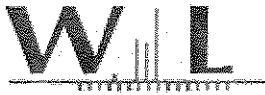
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-008 8022735-33 (Water)

Date Sampled: 02/06/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	10	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	



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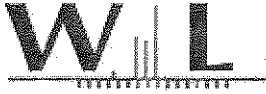
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL92-003 8022735-34 (Water)

Date Sampled: 02/06/08 07:56

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	0.80	0.45	ug/l	2.0	1	EPA 314.0	W8C0016	02/29/08	02/29/08	mac	J



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Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

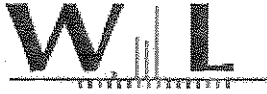
JPL92-004 8022735-35 (Water)

Date Sampled: 02/06/08 08:32

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	8.9	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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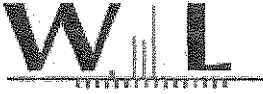
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Date Reported: 03/11/08 12:32

JPL92-005 8022735-36 (Water)

Date Sampled: 02/06/08 09:01

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	11	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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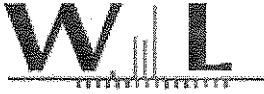
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-006 8022735-37 (Water)

Date Sampled: 02/06/08 09:31

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	15	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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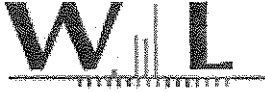
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL92-009 8022735-38 (Water)

Date Sampled: 02/06/08 10:10

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
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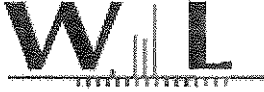
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 Date Reported: 03/11/08 12:32

JPL92-007 8022735-39 (Water)

Date Sampled: 02/06/08 10:26

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	9.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

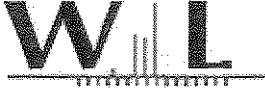
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Date Reported: 03/11/08 12:32

JPL92-001 8022735-40 (Water)

Date Sampled: 02/06/08 11:48

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Project ID: JPL/EPTM

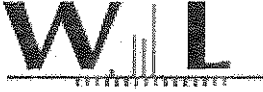
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Date Reported: 03/11/08 12:32

JPL92-002 8022735-41 (Water)

Date Sampled: 02/06/08 12:16

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.2	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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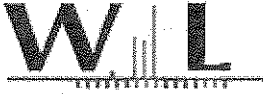
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL93-005 8022735-42 (Water)

Date Sampled: 02/07/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	25	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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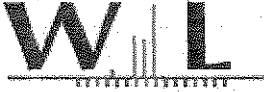
JPL93-006 8022735-43 (Water)

Date Sampled: 02/07/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	13	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	





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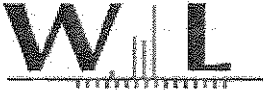
Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL93-002 8022735-44 (Water)

Date Sampled: 02/07/08 08:21

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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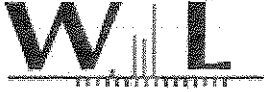
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Date Reported: 03/11/08 12:32

JPL93-003 8022735-45 (Water)

Date Sampled: 02/07/08 08:54

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	23	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

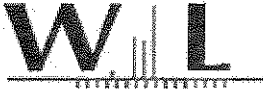
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Date Reported: 03/11/08 12:32

JPL93-007 8022735-46 (Water)

Date Sampled: 02/07/08 09:34

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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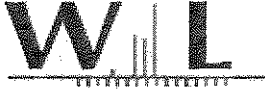
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/11/08 12:32
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JPL93-004 8022735-47 (Water)

Date Sampled: 02/07/08 09:50

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	12	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/11/08 12:32

JPL94-002 8022735-48 (Water)

Date Sampled: 02/08/08 08:01

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0162	03/03/08	03/03/08	mac	

**PACE ANALYTICAL SERVICES, INC.**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL95**

**March 21, 2008**

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL95  
Date of Report: March 21, 2008

**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>Pace Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-7	JPL95-001	VOA/MET/PER/INO
MW-16	JPL95-002	VOA/MET/PER/INO
DUPE-6-IQ08	JPL95-003	VOA/MET/PER/INO
TB-13-02/12/08	JPL95-004	VOA

**Analytical Request Key:**

VOA =	Volatiles (524.2)
MET =	Chromium (200.8)
PER =	Perchlorate (314.0) Subcontracted to Weck Laboratories
INO =	Chloride, Sulfate, Ortho phosphorus (300.0) Nitrate + Nitrite (353.2) Nitrate (353.2) Nitrite (354.1)

Summary of NELAC test accreditation

<b>Determination</b>	<b>NELAC approved</b>
TurMet for 200.7/200.8 TurMet	NO
200.8 Total Cr	YES
300.0 Low Level NO3, NO2, Cl, SO4, OPO4	YES
353.2 Nitrate (as N) by Calc., water	YES
353.2 Nitrate + Nitrite (as N), Water	YES
354.1 Nitrite (as N), Water	YES
365.2 Ortho-Phosphorus as P, Water	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples. Three of three volatile bottles submitted for MW-16 contained bubbles of less than 1/4 inch in size. One of three volatile bottles submitted for DUPE-6-IQ08 contained bubbles of less than 1/4 inch in size. One of two volatile bottles submitted for TB-13-02/12/08 contained bubbles of less than 1/4 inch

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Seattle, WA 98108

in size. One of two volatile bottles submitted for TB-13-02/12/08 contained bubbles of greater 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.

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 02/14 /2008 the percent difference value for cis-1,3-dichloropropene exceeded 30% due to increased response. This analyte was not detected in any associated samples; no further action was taken.

Quality Control Analyses:

MS/MSD analyses were not performed due to insufficient sample volume. All spiking analytes in the blank spike analysis recovered within 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.



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**SPECIFIC REMARKS ON INORGANIC ANALYSES:**

Holding Time Compliance:

Pace 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
Nitrate + Nitrite	28 days	None

Samples for nitrate analysis were entered and analyzed by an alternate method (NO<sub>3</sub>NO<sub>2</sub>(353.2) -NO<sub>2</sub>(354.1) = NO<sub>3</sub> result by difference) and ortho phosphorus (365.2) due to anion instrument constraints. Samples were analyzed for nitrate by method 300 as soon as possible, but it was after their holding time had expired.

ICP-MS Metals:

Due to analyst error, the matrix spike duplicate for sample MW-7 was not spiked with internal standard. As a result, the matrix spike duplicate recovery and the matrix spike / matrix spike relative percent difference were outside normal control limits. All other quality control samples were spiked appropriately and were within control limits. No further action was required. All relevant data have been flagged with an "\*" and an "N" on Forms 1 and 5C.

Miscellaneous Inorganics:

For run sequence R025943, the matrix spike and matrix spike duplicate recovered low for the orthophosphate analysis. All other quality control elements were within control limits. Therefore, no further action was taken.

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For run sequence R026072, the matrix spike and matrix spike duplicate recovered low for the orthophosphate analysis. All other quality control elements were within control limits. Therefore, no further action was taken.

For run sequence R026104, the matrix spike and matrix spike duplicate recovered high for the nitrate + nitrite analysis. All other quality control elements were within control limits. 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.
  - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- 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.
  - Z Denotes data deemed unusable by the analyst.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. 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

3/24/08  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

3/21/08  
(DATE)

*HOW TO CONTACT US:*

All Pace Analytical Services, Inc. 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, Pace 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.

**Pace Analytical Services, Inc.**  
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Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies

LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG

Sample MtxID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	300.0 Low Level NO3, NO2, Cl, SO4, OP04	314.0 Perchlorate	353.2 Nitrate (as N) by Calc, water	353.2 Nitrate + Nitrite (as N), Water	354.1 Nitrite (as N), Water	365.2 Ortho-phosphorus as P, Water	524.2 Volatile Organics + TICs (JPL Special list)	TurMet For 200.7/200.8 TurMet
WD JPL95-001	02/13/2008 09:00 AM	02/12/2008 09:06 AM	MW-7	IN	IN	IN	IN	IN	A-	IN	IN	IN
WD JPL95-002	02/13/2008 09:00 AM	02/12/2008 11:28 AM	MW-16	IN	IN	IN	IN	IN	A-	IN	IN	IN
WD JPL95-003	02/13/2008 09:00 AM	02/12/2008 12:00 AM	DUPE-6-IQ08	IN	IN	IN	IN	IN	A-	IN	IN	IN
WD JPL95-004	02/13/2008 09:00 AM	02/12/2008 12:00 AM	TB-13-02/12/08								IN	

Approved By:

Notes:

On:

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

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

Matrices: Water::WD

FORM LTL-PM-8.0





**FORMS SUMMARY**

SDG JPL95

VOLATILES ANALYSIS

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL95  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-001  
 Lab File ID: B0214024.D  
 Date Collected: 02/12/2008  
 Date/Time Analyzed: 02/14/2008 16:53  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <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	7.5	
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	10	
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL95  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-001  
 Lab File ID: B0214024.D  
 Date Collected: 02/12/2008  
 Date/Time Analyzed: 02/14/2008 16:53  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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	3.3	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7

Lab Name: Pace Analytical Services, Inc. (S)  
 SDG No.: JPL95  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-001  
 Lab File ID: B0214024.D  
 Date Collected: 02/12/2008  
 Date/Time Analyzed: 02/14/2008 16:53  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-16

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL95  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-002  
 Lab File ID: B0214025.D  
 Date Collected: 02/12/2008  
 Date/Time Analyzed: 02/14/2008 17:19  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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	5.6	
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	7.7	
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-16

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL95  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-002  
 Lab File ID: B0214025.D  
 Date Collected: 02/12/2008  
 Date/Time Analyzed: 02/14/2008 17:19  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.56	
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	7.8	
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	4.1	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-16

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL95  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-002  
 Lab File ID: B0214025.D  
 Date Collected: 02/12/2008  
 Date/Time Analyzed: 02/14/2008 17:19  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

DUPE-6-IQ08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL95  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-003  
 Lab File ID: B0214026.D  
 Date Collected: 02/12/2008  
 Date/Time Analyzed: 02/14/2008 17:46  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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	7.8	
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	11	
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-6-IQ08

Lab Name: Pace Analytical Services, Inc. (S)  
 SDG No.: JPL95  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-003  
 Lab File ID: B0214026.D  
 Date Collected: 02/12/2008  
 Date/Time Analyzed: 02/14/2008 17:46  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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	3.4	
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	0.99	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-6-IQ08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL95  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-003  
 Lab File ID: B0214026.D  
 Date Collected: 02/12/2008  
 Date/Time Analyzed: 02/14/2008 17:46  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-13-02/12/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL95  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-004  
 Lab File ID: B0214010.D  
 Date Collected: 02/12/2008  
 Date/Time Analyzed: 02/14/2008 10:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-13-02/12/08

Lab Name: Pace Analytical Services, Inc. (S)  
 SDG No.: JPL95  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-004  
 Lab File ID: B0214010.D  
 Date Collected: 02/12/2008  
 Date/Time Analyzed: 02/14/2008 10:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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	0.28	J
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-13-02/12/08

Lab Name: Pace Analytical Services, Inc. (S)  
 SDG No.: JPL95  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-004  
 Lab File ID: B0214010.D  
 Date Collected: 02/12/2008  
 Date/Time Analyzed: 02/14/2008 10:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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

1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-7

Lab Name: Pace Analytical Services, Inc. (  
 SDG No.: JPL95  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-001  
 Lab File ID: B0214024.D  
 Date Collected: 02/12/2008  
 Date Analyzed: 02/14/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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.

MW-16

Lab Name: Pace Analytical Services, Inc. (

Contract: JPL Groundwater Monitorin

SDG No.: JPL95

Run Sequence: R025904

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL95-002

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0214025.D

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

Date Collected: 02/12/2008

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

Date Analyzed: 02/14/2008

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

	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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24					
25					
26					
27					
28					
29					
30					

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUPE-6-IQ08

Lab Name: Pace Analytical Services, Inc. (

Contract: JPL Groundwater Monitorin

SDG No.: JPL95

Run Sequence: R025904

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL95-003

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0214026.D

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

Date Collected: 02/12/2008

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

Date Analyzed: 02/14/2008

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

	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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23					
24					
25					
26					
27					
28					
29					
30					

Comments:



1 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-13-02/12/08

Lab Name: Pace Analytical Services, Inc. (  
 SDG No.: JPL95  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025904  
 Lab Sample ID: JPL95-004  
 Lab File ID: B0214010.D  
 Date Collected: 02/12/2008  
 Date Analyzed: 02/14/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
ug/L

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

**FORMS SUMMARY**

**JPL95**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-7

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL95

Matrix (soil/water): Water

Lab Sample ID: JPL95-001

Level (low/med): LOW

Date Received: 02/13/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.46		*N	M	R026251

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

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

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

Date Printed: 3/3/2008 14:56

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-16

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL95

Matrix (soil/water): Water

Lab Sample ID: JPL95-002

Level (low/med): LOW

Date Received: 02/13/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	2.03		*N	M	R026251

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

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

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

Date Printed: 3/3/2008 14:56

SW-846

-1-

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-6-IQ08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL95

Matrix (soil/water): Water

Lab Sample ID: JPL95-003

Level (low/med): LOW

Date Received: 02/13/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	9.13		*N	M	R026251

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

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

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

Date Printed: 3/3/2008 14:56

**FORMS SUMMARY**

**JPL95**

**Miscellaneous Inorganics**

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
 SDG Number: JPL95  
 Sample Number: MW-7 Date/Time Collected: 02/12/2008 09:06  
 Lab Sample ID: JPL95-001 Date/Time Received: 02/13/2008 09:00

Method/Qbatch\*: E300.0/27229 Unit: mg/L  
 Instrument: Ion Chromatograph (2) File: R026072\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.56		0.20	0.055	02/25/2008	02/26/2008	R026072
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	02/25/2008	02/26/2008	R026072
Sulfate as SO4	14808-79-8	10	42		10	1.7	02/25/2008	02/26/2008	R026072
Chloride	16887-00-6	10	56		10	0.76	02/25/2008	02/26/2008	R026072
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	02/25/2008	02/26/2008	R026072

Method/Qbatch\*: E353.2/27258 Unit: mg/L  
 Instrument: None File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	1	0.70		0.050	0.016	02/26/2008	02/26/2008	R026104

Method/Qbatch\*: E353.2/27314 Unit: mg/L  
 Instrument: None File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.70		0.50	0.010	02/27/2008	02/26/2008	R026156

Method/Qbatch\*: E354.1/27015 Unit: mg/L  
 Instrument: UV/Vis (Cary) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	02/13/2008	02/13/2008	R025875

Method/Qbatch\*: E365.2/27091 Unit: mg/L  
 Instrument: UV/Vis (Cary) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Phosphorus, Orthophosphate (as P)	7723-14-0	1	0.10	U	0.10	0.0025	02/14/2008	02/14/2008	R025943

\*QBatch=QC/Preparation Batch

**Pace Analytical Services, Inc.**

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
 SDG Number: JPL95  
 Sample Number: MW-16 Date/Time Collected: 02/12/2008 11:28  
 Lab Sample ID: JPL95-002 Date/Time Received: 02/13/2008 09:00

Method/Qbatch\*: E300.0/27422 Unit: mg/L  
 Instrument: Ion Chromatograph (2) File: R026257\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	02/29/2008	02/29/2008	R026257
Chloride	16887-00-6	10	53		10	0.76	02/29/2008	02/29/2008	R026257
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	02/29/2008	02/29/2008	R026257

Method/Qbatch\*: E300.0/27697 Unit: mg/L  
 Instrument: Ion Chromatograph (2) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.88		0.20	0.055	03/12/2008	03/13/2008	R026545
Sulfate as SO4	14808-79-8	10	48		10	1.7	03/12/2008	03/13/2008	R026545

Method/Qbatch\*: E353.2/27258 Unit: mg/L  
 Instrument: None File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	1	1.0		0.050	0.016	02/26/2008	02/26/2008	R026104

Method/Qbatch\*: E353.2/27314 Unit: mg/L  
 Instrument: None File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	1.0		0.50	0.010	02/27/2008	02/26/2008	R026156

Method/Qbatch\*: E354.1/27015 Unit: mg/L  
 Instrument: UV/Vis (Cary) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	02/13/2008	02/13/2008	R025875

\*QBatch=QC/Preparation Batch



Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
SDG Number: JPL95  
Sample Number: MW-16 Date/Time Collected: 02/12/2008 11:28  
Lab Sample ID: JPL95-002 Date/Time Received: 02/13/2008 09:00  
Method/Qbatch\*: E365.2/27091 Unit: mg/L  
Instrument: UV/Vis (Cary) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Phosphorus, Orthophosphate (as P)	7723-14-0	1	0.10	U	0.10	0.0025	02/14/2008	02/14/2008	R025943

\*QBatch=QC/Preparation Batch



## **Perchlorate Data**

**Subcontracted to Weck Laboratories**

**JPL94**

**JPL95**

**JPL96**

**JPL97**

**EPTM19**

**EPTM20**

## OA/OC Data Package

### EPA Method 314 – Perchlorate

Lab ID number: 8022735 (21, 25, 28-31, 35-69)

#### 1. Case Narrative

The samples were received on ice and they were in good condition. The temperature upon receipt at the laboratory was  $2.3^{\circ}\text{C}$ . Samples were completed within holding times. Weck Lab IDs did not numerically correspond directly to Client's sample IDs. All QA/QC determinations were within acceptance ranges. The following acronyms are used in this data package:

IPC: Instrument Performance Check, is a calibration check standard prepared in a matrix of high conductivity. It defines the highest background that a sample can have to be analyzed directly; samples with higher backgrounds need to be diluted.

IPC: Instrument Performance Check prepared with high conductivity matrix (20 ppb).

LRB: Laboratory Reagent Blank or Method Blank.

CCV: Continuing Calibration Check Standard at low-level (2 ppb) and mid-level (20 ppb or 40 ppb).

Note: CCVs start with 2 ppb, then alternate between 20 and 40 ppb through the batch.

#### 2. QC Summaries

See Quality Control Report

#### 3. Sample Data

3.1 Analytical results summary: see Certificate of Analysis.

3.2 Chromatograms, quantitation reports and injection log for samples and QC runs for the batch: See Appendix 1.

3.3 Chain of custody record: A copy is included with the Certificate of Analysis.

3.4 Copies of bench sheets and secondary review checklist: Appendix 2.

#### 4. Calibration Data

4.1 Initial Calibration summary and chromatograms: See Appendix 3.

4.2 Continuing calibration summary and chromatograms: See Appendix 1.

5. Raw Data

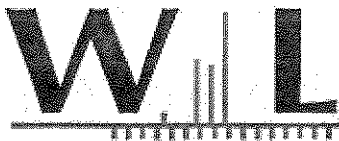
5.1 Chromatograms and quantitation for MS/MSD and LCS: See Appendix 1.

5.2 Bench sheets: See Appendix 2.

6. Standards Preparation Records

6.1 See Appendix 4 for copies of standards and solutions preparation

Appendix 1- Chromatograms, Quant Reports and Injection logs



Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

14859 E. Clark Ave., Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634  
info@wecklabs.com www.wecklabs.com

### CERTIFICATE OF ANALYSIS

**Client:** Pace Analytical Services  
940 South Harney Street  
Seattle, WA 98108  
Attention: Kara Godineaux

**Report Date:** 03/14/08 11:20  
**Received Date:** 02/27/08 09:50  
**Turn Around:** Normal

Phone: (206) 957-2422  
Fax: (206) 767-5063

**Work Order #:** 8022735

**Client Project:** JPL/EPTM

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Kara Godineaux :

Enclosed are the results of analyses for samples received 02/27/08 09:50 with the Chain of Custody document. The samples were received in good condition. The samples were received at 2.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

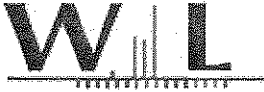
Kim G Tu

Project Manager



Page 1 of 26





Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

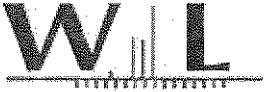
Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
JPL94-003	Client		8022735-49	Water	02/08/08 08:31
JPL94-005	Client		8022735-50	Water	02/08/08 08:49
JPL94-006	Client		8022735-51	Water	02/08/08 08:56
JPL94-004	Client		8022735-52	Water	02/08/08 09:09
JPL94-007	Client		8022735-53	Water	02/11/08 08:24
JPL94-008	Client		8022735-54	Water	02/11/08 11:25
JPL95-003	Client		8022735-55	Water	02/12/08 00:00
JPL95-001	Client		8022735-56	Water	02/12/08 09:06
JPL95-002	Client		8022735-57	Water	02/12/08 11:28
EPTM19-001	Client		8022735-58	Water	02/12/08 13:00
EPTM19-003	Client		8022735-59	Water	02/12/08 13:15
EPTM19-004	Client		8022735-60	Water	02/12/08 13:15
EPTM19-005	Client		8022735-61	Water	02/12/08 13:30
JPL96-003	Client		8022735-62	Water	02/13/08 00:00
JPL96-001	Client		8022735-63	Water	02/13/08 08:30
JPL96-002	Client		8022735-64	Water	02/13/08 10:53
JPL97-001	Client		8022735-65	Water	02/14/08 08:17
EPTM20-001	Client		8022735-66	Water	02/20/08 16:00
EPTM20-003	Client		8022735-67	Water	02/20/08 16:30
EPTM20-004	Client		8022735-68	Water	02/20/08 16:30
PGWW080201-001	Client		8022735-69	Water	02/08/08 11:00





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Report ID: 8022735  
Project ID: JPL/EPTM

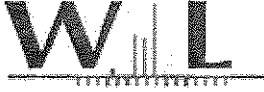
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JPL94-003 8022735-49 (Water)

Date Sampled: 02/08/08 08:31

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	6.5	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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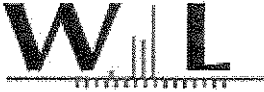
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JPL94-005 8022735-50 (Water)

Date Sampled: 02/08/08 08:49

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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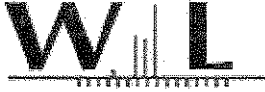
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JPL94-006 8022735-51 (Water)

Date Sampled: 02/08/08 08:56

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

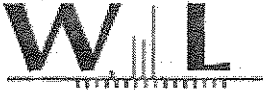
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JPL94-004 8022735-52 (Water)

Date Sampled: 02/08/08 09:09

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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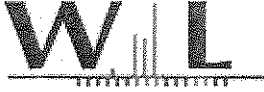
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/14/08 11:20
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JPL94-007 8022735-53 (Water)

Date Sampled: 02/11/08 08:24

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	56	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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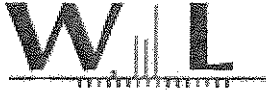
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 Date Reported: 03/14/08 11:20

JPL94-008 8022735-54 (Water)

Date Sampled: 02/11/08 11:25

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.0	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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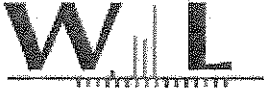
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JPL95-003 8022735-55 (Water)

Date Sampled: 02/12/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.5	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

JPL95-001 8022735-56 (Water)

Date Sampled: 02/12/08 09:06

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.1	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	





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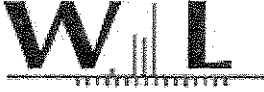
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JPL95-002 8022735-57 (Water)

Date Sampled: 02/12/08 11:28

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	78	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

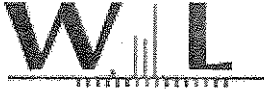
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Date Reported: 03/14/08 11:20

EPTM19-001 8022735-58 (Water)

Date Sampled: 02/12/08 13:00

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	290	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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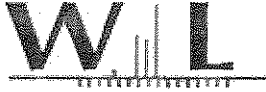
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/14/08 11:20
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EPTM19-003 8022735-59 (Water)

Date Sampled: 02/12/08 13:15

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	290	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

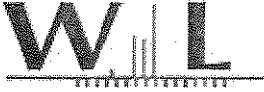
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Date Reported: 03/14/08 11:20

EPTM19-004 8022735-60 (Water)

Date Sampled: 02/12/08 13:15

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	280	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

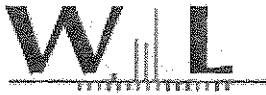
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Date Reported: 03/14/08 11:20

EPTM19-005 8022735-61 (Water)

Date Sampled: 02/12/08 13:30

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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Report ID: 8022735  
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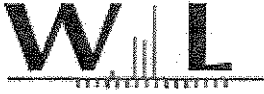
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 Date Reported: 03/14/08 11:20

JPL96-003 8022735-62 (Water)

Date Sampled: 02/13/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	300	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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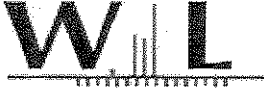
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JPL96-001 8022735-63 (Water)

Date Sampled: 02/13/08 08:30

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.6	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

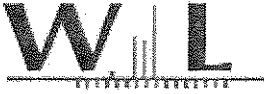
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Date Sampled: 02/13/08 10:53

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	310	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	





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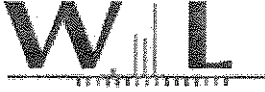
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JPL97-001 8022735-65 (Water)

Date Sampled: 02/14/08 08:17

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.6	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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 Project ID: JPL/EPTM

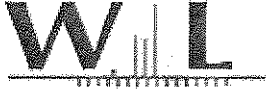
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EPTM20-001 8022735-66 (Water)

Date Sampled: 02/20/08 16:00

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	310	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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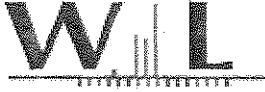
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EPTM20-003 8022735-67 (Water)

Date Sampled: 02/20/08 16:30

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	290	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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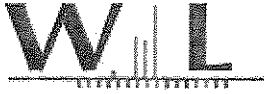
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EPTM20-004 8022735-68 (Water)

Date Sampled: 02/20/08 16:30

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	300	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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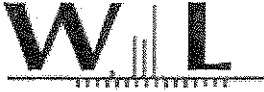
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PGWW080201-001 8022735-69 (Water)

Date Sampled: 02/08/08 11:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0164	03/03/08	03/04/08	mac	



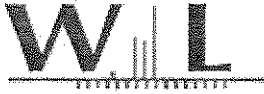
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Date Reported: 03/14/08 11:20

## QUALITY CONTROL SECTION



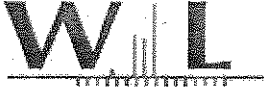
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**Perchlorate by EPA 314.0 - Quality Control**

%REC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch W8C0163 - EPA 314.0, dir. inj.</b>										
<b>Blank (W8C0163-BLK1)</b>				Analyzed: 03/03/08						
Perchlorate	ND	2.0	ug/l							
<b>LCS (W8C0163-BS1)</b>				Analyzed: 03/03/08						
Perchlorate	22.0	2.0	ug/l	20.0		110	85-115			
<b>Matrix Spike (W8C0163-MS1)</b>				Source: 8022735-52		Analyzed: 03/03/08				
Perchlorate	23.2	2.0	ug/l	20.0	3.42	99	80-120			
<b>Matrix Spike Dup (W8C0163-MSD1)</b>				Source: 8022735-52		Analyzed: 03/03/08				
Perchlorate	25.2	2.0	ug/l	20.0	3.42	109	80-120	8	15	
<b>Batch W8C0164 - EPA 314.0, dir. inj.</b>										
<b>Blank (W8C0164-BLK1)</b>				Analyzed: 03/04/08						
Perchlorate	ND	2.0	ug/l							
<b>LCS (W8C0164-BS1)</b>				Analyzed: 03/04/08						
Perchlorate	20.0	2.0	ug/l	20.0		100	85-115			
<b>Matrix Spike (W8C0164-MS1)</b>				Source: 8022735-69		Analyzed: 03/04/08				
Perchlorate	20.7	2.0	ug/l	20.0	ND	103	80-120			
<b>Matrix Spike Dup (W8C0164-MSD1)</b>				Source: 8022735-69		Analyzed: 03/04/08				
Perchlorate	20.7	2.0	ug/l	20.0	ND	104	80-120	0.1	15	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

### Notes and Definitions

ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

% Rec Percent Recovery

Sub Subcontracted analysis, original report available upon request

MDL Method Detection Limit

MDA Minimum Detectable Activity

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



**PACE ANALYTICAL SERVICES, INC.**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL96**

**March 21, 2008**

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL96  
Date of Report: March 21, 2008

**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>Pace Sample Identification</u>	<u>Testing Analytical Request</u>
MW-13	JPL96-001	VOA/MET/PER/ANIONS
MW-8	JPL96-002	VOA/MET/PER/ANIONS
DUPE-7-IQ08	JPL96-003	VOA/MET/PER/ANIONS
TB-14-02/13/08	JPL96-004	VOA

Analytical Request Key:

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0) Subcontracted to Weck Laboratories  
ANIONS = Chloride, Nitrate, Nitrite, Sulfate, Ortho phosphorus (300.0)

Summary of NELAC test accreditation

<b>Determination</b>	<b>NELAC approved</b>
TurMet for 200.7/200.8 TurMet	NO
200.8 Total Cr	YES
300 Anions Cl and SO4	YES
300.0 Low Level NO3, NO2, Cl, SO4, OPO4	YES
353.2 Nitrate (as N) by Calc., water	YES
353.2 Nitrate + Nitrite (as N), Water	YES
354.1 Nitrite (as N), Water	YES
365.2 Ortho-Phosphorus as P, Water	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples.  
Three of three volatiles bottles submitted for MW-13 contained bubbles of less than 1/4 inch in size.  
Two 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-IQ08 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.

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:

#### Quality Control Analyses:

MS/MSD analyses were not performed due to insufficient sample volume. The blank spike analysis yielded a high recovery for cis-1,-3-dichloropropene. Because there were no hits for this analyte in any of the samples, 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:

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

Pace Analytical Services, Inc.  
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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
Chloride	28 days	None
Sulfate	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Ortho phosphorus	48 hours	None

Samples for nitrate analysis were entered and analyzed by an alternate method (NO<sub>3</sub>NO<sub>2</sub>(353.2) -NO<sub>2</sub>(354.1) = NO<sub>3</sub> result by difference) and ortho phosphorus (365.2) due to anion instrument constraints. Samples were analyzed for nitrate by method 300 as soon as possible, but it was after their holding time had expired.

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-13. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms 1 and 9.

Miscellaneous Inorganics:

For run sequence R026072, the matrix spike and matrix spike duplicate recovered low for the orthophosphate analysis. All other quality control elements were within control limits. Therefore, no further action was taken.

**Pace Analytical Services, Inc.**

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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.
  - ~ This result has been identified as non-primary based on the analyst's professional judgment.
- 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.

Z Denotes data deemed unusable by the analyst.

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

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. 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

3/24/08  
(DATE)

3/24/08  
(DATE)

*HOW TO CONTACT US:*

All Pace Analytical Services, Inc. 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, Pace 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.

**Pace Analytical Services, Inc.**  
940 S. Harney  
Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies



LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG

Sample MtxID (SDG-#)	VTSR	Collected On	Client ID	200.8 Total Cr	300 Anions Cl and SO4	300.0 Low Level NO3, NO2, Cl, SO4, OPO4	314.0 Perchlorate	353.2 Nitrate (as N) by Calc., water	353.2 Nitrate + Nitrite (as N), Water	354.1 Nitrite (as N), Water	365.2 Ortho-Phosphorus as P, Water	524.2 Volatile Organics + TICs (JPL Special list)	TurMet for 200.7/200.8 TurMet
WD JPL96-001	02/14/2008 09:00 AM	02/13/2008 08:30 AM	MW-13	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL96-002	02/14/2008 09:00 AM	02/13/2008 10:53 AM	MW-8	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL96-003	02/14/2008 09:00 AM	02/13/2008 12:00 AM	DUPE-7-IQ08	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
WD JPL96-004	02/14/2008 09:00 AM	02/13/2008 12:00 AM	TB-14-02/13/08									IN	

Approved By:

On:

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

Matrices: Water=WD

FORM LTL-PM-8.0



**FORMS SUMMARY**

SDG JPL96

VOLATILES ANALYSIS

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-13

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL96  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-001  
 Lab File ID: B0215020.D  
 Date Collected: 02/13/2008  
 Date/Time Analyzed: 02/15/2008 15:33  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.96	
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	0.32	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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-13

Lab Name: Pace Analytical Services, Inc. (S)  
 SDG No.: JPL96  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-001  
 Lab File ID: B0215020.D  
 Date Collected: 02/13/2008  
 Date/Time Analyzed: 02/15/2008 15:33  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	1.9	
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	2.5	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-13

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL96  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-001  
 Lab File ID: B0215020.D  
 Date Collected: 02/13/2008  
 Date/Time Analyzed: 02/15/2008 15:33  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

MW-8

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL96  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-002  
 Lab File ID: B0215021.D  
 Date Collected: 02/13/2008  
 Date/Time Analyzed: 02/15/2008 15:59  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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	0.68	
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	0.32	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	0.27	J
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL96  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-002  
 Lab File ID: B0215021.D  
 Date Collected: 02/13/2008  
 Date/Time Analyzed: 02/15/2008 15:59  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	2.0	
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	0.26	J
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



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8

Lab Name: Pace Analytical Services, Inc. (S)  
 SDG No.: JPL96  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-002  
 Lab File ID: B0215021.D  
 Date Collected: 02/13/2008  
 Date/Time Analyzed: 02/15/2008 15:59  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		ug/L	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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.

DUPE-7-IQ08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL96  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-003  
 Lab File ID: B0215022.D  
 Date Collected: 02/13/2008  
 Date/Time Analyzed: 02/15/2008 16:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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	0.75	
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	0.27	J
10061-01-	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-7-IQ08

Lab Name: Pace Analytical Services, Inc. (S)

Contract: JPL Groundwater Monitorin

SDG No.: JPL96

Run Sequence: R025950

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL96-003

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0215022.D

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

Date Collected: 02/13/2008

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

Date/Time Analyzed: 02/15/2008 16:31

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	Q
108-88-3	Toluene	2.2	
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	0.30	J
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUPE-7-IQ08

Lab Name: Pace Analytical Services, Inc. (S)  
 SDG No.: JPL96  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-003  
 Lab File ID: B0215022.D  
 Date Collected: 02/13/2008  
 Date/Time Analyzed: 02/15/2008 16:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-14-02/13/08

Lab Name: Pace Analytical Services, Inc. (S)  
 SDG No.: JPL96  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-004  
 Lab File ID: B0215015.D  
 Date Collected: 02/13/2008  
 Date/Time Analyzed: 02/15/2008 13:00  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-14-02/13/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL96  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-004  
 Lab File ID: B0215015.D  
 Date Collected: 02/13/2008  
 Date/Time Analyzed: 02/15/2008 13:00  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-14-02/13/08

Lab Name: Pace Analytical Services, Inc. (S)

Contract: JPL Groundwater Monitorin

SDG No.: JPL96

Run Sequence: R025950

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JPL96-004

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0215015.D

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

Date Collected: 02/13/2008

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

Date/Time Analyzed: 02/15/2008 13:00

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:	
		<u>ug/L</u>	<u>Q</u>
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-13

Lab Name: Pace Analytical Services, Inc. (  
 SDG No.: JPL96  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-001  
 Lab File ID: B0215020.D  
 Date Collected: 02/13/2008  
 Date Analyzed: 02/15/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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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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: Pace Analytical Services, Inc. (  
 SDG No.: JPL96  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-002  
 Lab File ID: B0215021.D  
 Date Collected: 02/13/2008  
 Date Analyzed: 02/15/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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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27				
28				
29				
30				

Comments:

1 TIC  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUPE-7-IQ08

Lab Name: Pace Analytical Services, Inc. (  
 SDG No.: JPL96  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-003  
 Lab File ID: B0215022.D  
 Date Collected: 02/13/2008  
 Date Analyzed: 02/15/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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-14-02/13/08

Lab Name: Pace Analytical Services, Inc. (  
 SDG No.: JPL96  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL96-004  
 Lab File ID: B0215015.D  
 Date Collected: 02/13/2008  
 Date Analyzed: 02/15/2008  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 CONCENTRATION UNITS:  
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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29				
30				

Comments:

**FORMS SUMMARY**

**JPL96**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-13

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL96

Matrix (soil/water): Water

Lab Sample ID: JPL96-001

Level (low/med): LOW

Date Received: 02/14/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	13.8		E	M	R026251

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

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

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

Date Printed: 3/7/2008 13:51

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-8

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL96

Matrix (soil/water): Water

Lab Sample ID: JPL96-002

Level (low/med): LOW

Date Received: 02/14/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	5.01		E	M	R026251

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

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

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

Date Printed: 3/7/2008 13:51

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

DUPE-7-IQ08

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL96

Matrix (soil/water): Water

Lab Sample ID: JPL96-003

Level (low/med): LOW

Date Received: 02/14/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	15.1		E	M	R026377

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

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

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

Date Printed: 3/7/2008 13:51

**FORMS SUMMARY**

**JPL96**

**Miscellaneous Inorganics**



**Pace Analytical Services, Inc.**

**Final Results**

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL96  
**Sample Number:** MW-13 **Date/Time Collected:** 02/13/2008 08:30  
**Lab Sample ID:** JPL96-001 **Date/Time Received:** 02/14/2008 09:00

**Method/Qbatch\*:** E300.0/27229 **Unit:** mg/L  
**Instrument:** Ion Chromatograph (2) **File:** R026072\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	10	6.3		2.0	0.55	02/25/2008	02/26/2008	R026072
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	02/25/2008	02/26/2008	R026072
Sulfate as SO4	14808-79-8	10	86		10	1.7	02/25/2008	02/26/2008	R026072
Chloride	16887-00-6	10	83		10	0.76	02/25/2008	02/26/2008	R026072
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	02/25/2008	02/26/2008	R026072

**Method/Qbatch\*:** E353.2/27315 **Unit:** mg/L  
**Instrument:** Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	5	7.4		0.25	0.080	02/28/2008	02/28/2008	R026157

**Method/Qbatch\*:** E353.2/27382 **Unit:** mg/L  
**Instrument:** None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	7.4		0.50	0.010	02/29/2008	02/28/2008	R026221

**Method/Qbatch\*:** E354.1/27069 **Unit:** mg/L  
**Instrument:** UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	02/15/2008	02/15/2008	R025923

**Method/Qbatch\*:** E365.2/27091 **Unit:** mg/L  
**Instrument:** UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Phosphorus, Orthophosphate (as P)	7723-14-0	1	0.10	U	0.10	0.0025	02/14/2008	02/14/2008	R025943

\*QBatch=QC/Preparation Batch

FORM LTL-RSR-27.0

Date Printed: 3/21/2008 11:53

**SUM - 67**

Pace Analytical Services, Inc.

Final Results

Client: Battelle Project: JPL Groundwater Monitoring  
 SDG Number: JPL96  
 Sample Number: MW-8 Date/Time Collected: 02/13/2008 10:53  
 Lab Sample ID: JPL96-002 Date/Time Received: 02/14/2008 09:00

Method/Qbatch\*: E300.0/27229 Unit: mg/L  
 Instrument: Ion Chromatograph (2) File: R026072\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	10	3.8		2.0	0.55	02/25/2008	02/26/2008	R026072
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	02/25/2008	02/26/2008	R026072
Sulfate as SO4	14808-79-8	10	60		10	1.7	02/25/2008	02/26/2008	R026072
Chloride	16887-00-6	10	36		10	0.76	02/25/2008	02/26/2008	R026072
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	02/25/2008	02/26/2008	R026072

Method/Qbatch\*: E353.2/27315 Unit: mg/L  
 Instrument: Autoanalyzer (5) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	5	4.6		0.25	0.080	02/28/2008	02/28/2008	R026157

Method/Qbatch\*: E353.2/27382 Unit: mg/L  
 Instrument: None File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	4.6		0.50	0.010	02/29/2008	02/28/2008	R026221

Method/Qbatch\*: E354.1/27069 Unit: mg/L  
 Instrument: UV/Vis (Cary) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	02/15/2008	02/15/2008	R025923

Method/Qbatch\*: E365.2/27091 Unit: mg/L  
 Instrument: UV/Vis (Cary) File: N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Phosphorus, Orthophosphate (as P)	7723-14-0	1	0.10	U	0.10	0.0025	02/14/2008	02/14/2008	R025943

\*QBatch=QC/Preparation Batch

**Pace Analytical Services, Inc.**

**Final Results**

**Client:** Battelle **Project:** JPL Groundwater Monitoring  
**SDG Number:** JPL96  
**Sample Number:** DUPE-7-IQ08 **Date/Time Collected:** 02/13/2008 00:00  
**Lab Sample ID:** JPL96-003 **Date/Time Received:** 02/14/2008 09:00

**Method/Qbatch\*:** E300.0/27229 **Unit:** mg/L  
**Instrument:** Ion Chromatograph (2) **File:** R026072\results.1.txt

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	10	3.8		2.0	0.55	02/25/2008	02/26/2008	R026072
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	02/25/2008	02/26/2008	R026072
Sulfate as SO4	14808-79-8	10	60		10	1.7	02/25/2008	02/26/2008	R026072
Chloride	16887-00-6	10	36		10	0.76	02/25/2008	02/26/2008	R026072
Orthophosphate	7723-14-0	1	1.0	U	1.0	0.33	02/25/2008	02/26/2008	R026072

**Method/Qbatch\*:** E353.2/27315 **Unit:** mg/L  
**Instrument:** Autoanalyzer (5) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Total Nitrate / Nitrite	N+N	5	4.7		0.25	0.080	02/28/2008	02/28/2008	R026157

**Method/Qbatch\*:** E353.2/27382 **Unit:** mg/L  
**Instrument:** None **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	4.7		0.50	0.010	02/29/2008	02/28/2008	R026221

**Method/Qbatch\*:** E354.1/27069 **Unit:** mg/L  
**Instrument:** UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrite - N	14797-65-0	1	0.0050	U	0.0050	0.0012	02/15/2008	02/15/2008	R025923

**Method/Qbatch\*:** E365.2/27091 **Unit:** mg/L  
**Instrument:** UV/Vis (Cary) **File:** N/A

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Phosphorus, Orthophosphate (as P)	7723-14-0	1	0.10	U	0.10	0.0025	02/14/2008	02/14/2008	R025943

\*QBatch=QC/Preparation Batch

## **Perchlorate Data**

**Subcontracted to Weck Laboratories**

**JPL94**

**JPL95**

**JPL96**

**JPL97**

**EPTM19**

**EPTM20**

## OA/OC Data Package

### EPA Method 314 – Perchlorate

Lab ID number: 8022735 (21, 25, 28-31, 35-69)

#### 1. Case Narrative

The samples were received on ice and they were in good condition. The temperature upon receipt at the laboratory was 2.3°C. Samples were completed within holding times. Weck Lab IDs did not numerically correspond directly to Client's sample IDs. All QA/QC determinations were within acceptance ranges. The following acronyms are used in this data package:

IPC: Instrument Performance Check, is a calibration check standard prepared in a matrix of high conductivity. It defines the highest background that a sample can have to be analyzed directly; samples with higher backgrounds need to be diluted.

IPC: Instrument Performance Check prepared with high conductivity matrix (20 ppb).

LRB: Laboratory Reagent Blank or Method Blank.

CCV: Continuing Calibration Check Standard at low-level (2 ppb) and mid-level (20 ppb or 40 ppb).

Note: CCVs start with 2 ppb, then alternate between 20 and 40 ppb through the batch.

#### 2. QC Summaries

See Quality Control Report

#### 3. Sample Data

3.1 Analytical results summary: see Certificate of Analysis.

3.2 Chromatograms, quantitation reports and injection log for samples and QC runs for the batch: See Appendix 1.

3.3 Chain of custody record: A copy is included with the Certificate of Analysis.

3.4 Copies of bench sheets and secondary review checklist: Appendix 2.

#### 4. Calibration Data

4.1 Initial Calibration summary and chromatograms: See Appendix 3.

4.2 Continuing calibration summary and chromatograms: See Appendix 1.

5. Raw Data

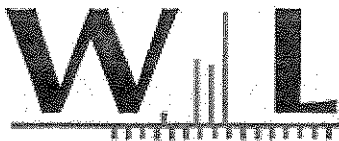
5.1 Chromatograms and quantitation for MS/MSD and LCS: See Appendix 1.

5.2 Bench sheets: See Appendix 2.

6. Standards Preparation Records

6.1 See Appendix 4 for copies of standards and solutions preparation

Appendix 1- Chromatograms, Quant Reports and Injection logs



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### CERTIFICATE OF ANALYSIS

**Client:** Pace Analytical Services  
940 South Harney Street  
Seattle, WA 98108  
Attention: Kara Godineaux

**Report Date:** 03/14/08 11:20  
**Received Date:** 02/27/08 09:50  
**Turn Around:** Normal

Phone: (206) 957-2422  
Fax: (206) 767-5063

**Work Order #:** 8022735

**Client Project:** JPL/EPTM

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Kara Godineaux :

Enclosed are the results of analyses for samples received 02/27/08 09:50 with the Chain of Custody document. The samples were received in good condition. The samples were received at 2.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Kim G Tu

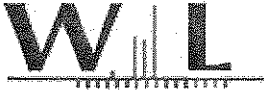
Project Manager



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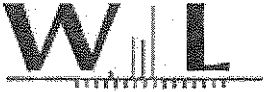
Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
JPL94-003	Client		8022735-49	Water	02/08/08 08:31
JPL94-005	Client		8022735-50	Water	02/08/08 08:49
JPL94-006	Client		8022735-51	Water	02/08/08 08:56
JPL94-004	Client		8022735-52	Water	02/08/08 09:09
JPL94-007	Client		8022735-53	Water	02/11/08 08:24
JPL94-008	Client		8022735-54	Water	02/11/08 11:25
JPL95-003	Client		8022735-55	Water	02/12/08 00:00
JPL95-001	Client		8022735-56	Water	02/12/08 09:06
JPL95-002	Client		8022735-57	Water	02/12/08 11:28
EPTM19-001	Client		8022735-58	Water	02/12/08 13:00
EPTM19-003	Client		8022735-59	Water	02/12/08 13:15
EPTM19-004	Client		8022735-60	Water	02/12/08 13:15
EPTM19-005	Client		8022735-61	Water	02/12/08 13:30
JPL96-003	Client		8022735-62	Water	02/13/08 00:00
JPL96-001	Client		8022735-63	Water	02/13/08 08:30
JPL96-002	Client		8022735-64	Water	02/13/08 10:53
JPL97-001	Client		8022735-65	Water	02/14/08 08:17
EPTM20-001	Client		8022735-66	Water	02/20/08 16:00
EPTM20-003	Client		8022735-67	Water	02/20/08 16:30
EPTM20-004	Client		8022735-68	Water	02/20/08 16:30
PGWW080201-001	Client		8022735-69	Water	02/08/08 11:00



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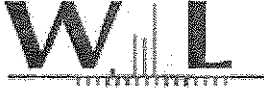
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Date Reported: 03/14/08 11:20

JPL94-003 8022735-49 (Water)

Date Sampled: 02/08/08 08:31

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	6.5	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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Project ID: JPL/EPTM

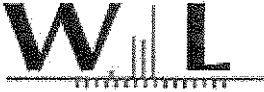
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JPL94-005 8022735-50 (Water)

Date Sampled: 02/08/08 08:49

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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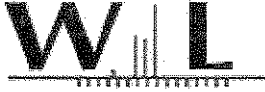
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Date Reported: 03/14/08 11:20

JPL94-006 8022735-51 (Water)

Date Sampled: 02/08/08 08:56

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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Project ID: JPL/EPTM

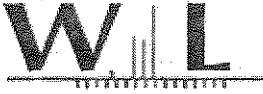
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Date Reported: 03/14/08 11:20

JPL94-004 8022735-52 (Water)

Date Sampled: 02/08/08 09:09

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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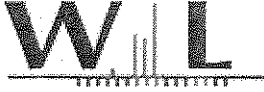
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JPL94-007 8022735-53 (Water)

Date Sampled: 02/11/08 08:24

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	56	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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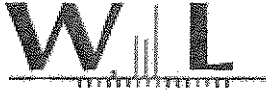
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 Date Reported: 03/14/08 11:20

JPL94-008 8022735-54 (Water)

Date Sampled: 02/11/08 11:25

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.0	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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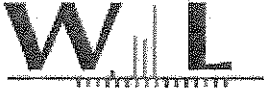
JPL95-003 8022735-55 (Water)

Date Sampled: 02/12/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.5	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	





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Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

JPL95-001 8022735-56 (Water)

Date Sampled: 02/12/08 09:06

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.1	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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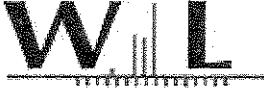
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Date Reported: 03/14/08 11:20

JPL95-002 8022735-57 (Water)

Date Sampled: 02/12/08 11:28

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	78	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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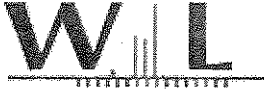
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Date Reported: 03/14/08 11:20

EPTM19-001 8022735-58 (Water)

Date Sampled: 02/12/08 13:00

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	290	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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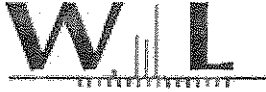
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EPTM19-003 8022735-59 (Water)

Date Sampled: 02/12/08 13:15

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	290	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

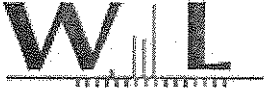
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Date Reported: 03/14/08 11:20

EPTM19-004 8022735-60 (Water)

Date Sampled: 02/12/08 13:15

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	280	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

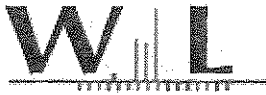
Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

EPTM19-005 8022735-61 (Water)

Date Sampled: 02/12/08 13:30

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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 Seattle WA, 98108

Report ID: 8022735  
 Project ID: JPL/EPTM

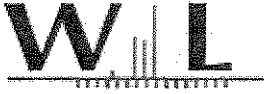
Date Received: 02/27/08 09:50  
 Date Reported: 03/14/08 11:20

JPL96-003 8022735-62 (Water)

Date Sampled: 02/13/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	300	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/14/08 11:20
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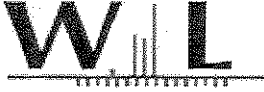
JPL96-001 8022735-63 (Water)

Date Sampled: 02/13/08 08:30

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.6	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	





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 14859 E. Clark Ave.  
 Industry, CA 91745  
 Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
 940 South Harney Street  
 Seattle WA, 98108

Report ID: 8022735  
 Project ID: JPL/EPTM

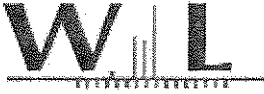
Date Received: 02/27/08 09:50  
 Date Reported: 03/14/08 11:20

JPL96-002 8022735-64 (Water)

Date Sampled: 02/13/08 10:53

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	310	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

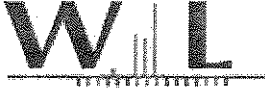
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/14/08 11:20
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JPL97-001 8022735-65 (Water)

Date Sampled: 02/14/08 08:17

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.6	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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Pace Analytical Services  
 940 South Harney Street  
 Seattle WA, 98108

Report ID: 8022735  
 Project ID: JPL/EPTM

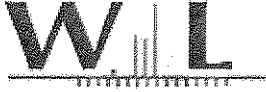
Date Received: 02/27/08 09:50  
 Date Reported: 03/14/08 11:20

EPTM20-001 8022735-66 (Water)

Date Sampled: 02/20/08 16:00

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	310	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

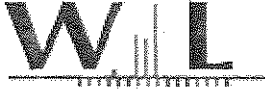
Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

EPTM20-003 8022735-67 (Water)

Date Sampled: 02/20/08 16:30

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	290	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

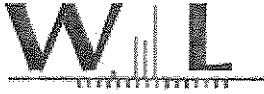
Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

EPTM20-004 8022735-68 (Water)

Date Sampled: 02/20/08 16:30

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	300	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/14/08 11:20
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PGWW080201-001 8022735-69 (Water)

Date Sampled: 02/08/08 11:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0164	03/03/08	03/04/08	mac	

**PACE ANALYTICAL SERVICES, INC.**

**SAMPLE DATA PACKAGE**

**BATTELLE**

**SDG NO.: JPL97**

**March 21, 2008**

**Pace Analytical Services, Inc.**

940 S. Harney  
Seattle, WA 98108

To: Battelle  
Project Name: JPL Groundwater  
SDG No.: JPL97  
Date of Report: March 21, 2008

**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>Pace Sample Identification</u></b>	<b><u>Testing Analytical Request</u></b>
MW-10	JPL97-001	VOA/MET/PER
MW-15	JPL97-002	MET
TB-15-2/14/08	JPL97-003	VOA

**Analytical Request Key:**

VOA = Volatiles (524.2)  
MET = Chromium (200.8)  
PER = Perchlorate (314.0) Subcontracted to Weck Laboratories

Summary of NELAC test accreditation

<b><u>Determination</u></b>	<b><u>NELAC approved</u></b>
TurMet for 200.7/200.8 TurMet	NO
200.8 Total Cr	YES
524.2 Volatile Organics + TICs (JPL Special list)	YES

**Sample Receipt Comments:**

The following discrepancies were noted in association with the receipt of these samples. Two of two volatiles bottles submitted for TB-15-2/14/08 contained bubbles of greater 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."



**Pace Analytical Services, Inc.**  
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:

Quality Control Analyses:

MS/MSD analyses were not performed due to insufficient sample volume. The blank spike analysis yielded a high recovery for cis-1,-3-dichloropropene. Because there were detected levels of this analyte in any of the samples, 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:

Pace 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.

**Pace Analytical Services, Inc.**

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.
- ~ This result has been identified as non-primary based on the analyst's professional judgment.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

**Pace Analytical Services, Inc.**  
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.
  - Z Denotes data deemed unusable by the analyst.
- CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

**Pace Analytical Services, Inc.**  
940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. 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

3/21/08  
(DATE)

  
Harry Romberg  
Quality Assurance Officer

3/21/08  
(DATE)

*HOW TO CONTACT US:*

All Pace Analytical Services, Inc. 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, Pace 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.

**Pace Analytical Services, Inc.**  
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
WD JPL97-001	02/15/2008 09:00 AM	02/14/2008 08:17 AM	MW-10	IN	IN	IN	IN
WD JPL97-002	02/15/2008 09:00 AM	02/14/2008 09:39 AM	MW-15	IN			IN
WD JPL97-003	02/15/2008 09:00 AM	02/14/2008 12:00 AM	TB-15- 2/14/08			IN	

Approved By:

On:

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

Matrices: Water=WD

FORM LTL-PM-8.0

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 COOPER  
 PROJECT NAME: SPL SAN MAR 1808  
 PROJECT CONTACT: DAVID COOPER  
 TELEPHONE: 619-726-7311 FAX: \_\_\_\_\_  
 JOB/PO. NO.: 6486090/214319

CHAIN OF CUSTODY RECORD **SDG #** 09L97  
**43091** PAGE 1 OF 1

WORK ORDER ID# \_\_\_\_\_ SUBMITTED AT: \_\_\_\_\_

TESTS TO PERFORM

**Lauck's**  
 Testing Laboratories, Inc. **10**  
 940 South Henry St., Seattle, WA 98108 (206) 707-5000 FAX 767-5063  
 1106 Lehigh Ave., Yakima, WA 98902 (509) 248-4095 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS
	VOL (524.3)
	TOTAL CR (700.8)
	CLAY (314.0)

LAB/SAY	SAMPLE ID / LOCATION	DATE	TIME
1	MM-10	02/14/08	0817
2	MM-15		0939
3	TB-15-02/14/08		

LAB/SAY	SAMPLE ID / LOCATION	DATE	TIME	MATRIX	NO. OF CONTAINERS	REMARKS
1	MM-10	02/14/08	0817	W	5	
2	MM-15		0939	W	1	
3	TB-15-02/14/08			W	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.

REMOVED BY (SIGN AND PRINT) \_\_\_\_\_ DATE/TIME \_\_\_\_\_

RECEIVED BY (SIGN AND PRINT) \_\_\_\_\_ DATE/TIME \_\_\_\_\_

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

\* RUSH TURNAROUNDS 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

**FORMS SUMMARY**

SDG JPL97

VOLATILES ANALYSIS



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-10

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL97  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL97-001  
 Lab File ID: B0215023.D  
 Date Collected: 02/14/2008  
 Date/Time Analyzed: 02/15/2008 17:03  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: 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	0.63	
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	0.65	
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	2.5	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-10

Lab Name: Pace Analytical Services, Inc. (S)  
 SDG No.: JPL97  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL97-001  
 Lab File ID: B0215023.D  
 Date Collected: 02/14/2008  
 Date/Time Analyzed: 02/15/2008 17:03  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	2.2	
10061-02-	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.1	
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-10

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL97  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL97-001  
 Lab File ID: B0215023.D  
 Date Collected: 02/14/2008  
 Date/Time Analyzed: 02/15/2008 17:03  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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-15-2/14/08

Lab Name: Pace Analytical Services, Inc. (S)  
 SDG No.: JPL97  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL97-003  
 Lab File ID: B0215016.D  
 Date Collected: 02/14/2008  
 Date/Time Analyzed: 02/15/2008 13:26  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		<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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-15-2/14/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL97  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL97-003  
 Lab File ID: B0215016.D  
 Date Collected: 02/14/2008  
 Date/Time Analyzed: 02/15/2008 13:26  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
108-88-3	Toluene	0.50	U
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

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-15-2/14/08

Lab Name: Pace Analytical Services, Inc. (S  
 SDG No.: JPL97  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 10.0 (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: R025950  
 Lab Sample ID: JPL97-003  
 Lab File ID: B0215016.D  
 Date Collected: 02/14/2008  
 Date/Time Analyzed: 02/15/2008 13:26  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: <u>ug/L</u>	Q
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	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 TIC  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-10
-------

Lab Name: Pace Analytical Services, Inc. (

Contract: JPL Groundwater Monitorin

SDG No.: JPL97

Run Sequence: R025950

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL97-001

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0215023.D

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

Date Collected: 02/14/2008

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

Date Analyzed: 02/15/2008

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

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-15-2/14/08

Lab Name: Pace Analytical Services, Inc. (

Contract: JPL Groundwater Monitorin

SDG No.: JPL97

Run Sequence: R025950

Matrix: (SOIL/WATER) Water

Lab Sample ID: JPL97-003

Sample wt/vol: 10.0 (g/mL) mL

Lab File ID: B0215016.D

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

Date Collected: 02/14/2008

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

Date Analyzed: 02/15/2008

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

	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**

**JPL97**

**Metals Data**

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-10

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL97

Matrix (soil/water): Water

Lab Sample ID: JPL97-001

Level (low/med): LOW

Date Received: 02/15/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	29.3		E	M	R026328

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

Color After: Colorless Clarity After: Clear Artifacts: No

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

Date Printed: 3/6/2008 14:13

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

MW-15

Lab Name: Pace Analytical Services

Contract: JPL Groundwater Monitorin

Lab Code: PACE

SDG No.: JPL97

Matrix (soil/water): Water

Lab Sample ID: JPL97-002

Level (low/med): LOW

Date Received: 02/15/2008

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

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-47-3	Chromium	19.1		E	M	R026328

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

Color After: Colorless Clarity After: Clear Artifacts: No

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

Date Printed: 3/6/2008 14:13

## **Perchlorate Data**

**Subcontracted to Weck Laboratories**

**JPL94**

**JPL95**

**JPL96**

**JPL97**

**EPTM19**

**EPTM20**

## OA/OC Data Package

### EPA Method 314 – Perchlorate

Lab ID number: 8022735 (21, 25, 28-31, 35-69)

#### 1. Case Narrative

The samples were received on ice and they were in good condition. The temperature upon receipt at the laboratory was 2.3°C. Samples were completed within holding times. Weck Lab IDs did not numerically correspond directly to Client's sample IDs. All QA/QC determinations were within acceptance ranges. The following acronyms are used in this data package:

IPC: Instrument Performance Check, is a calibration check standard prepared in a matrix of high conductivity. It defines the highest background that a sample can have to be analyzed directly; samples with higher backgrounds need to be diluted.

IPC: Instrument Performance Check prepared with high conductivity matrix (20 ppb).

LRB: Laboratory Reagent Blank or Method Blank.

CCV: Continuing Calibration Check Standard at low-level (2 ppb) and mid-level (20 ppb or 40 ppb).

Note: CCVs start with 2 ppb, then alternate between 20 and 40 ppb through the batch.

#### 2. QC Summaries

See Quality Control Report

#### 3. Sample Data

3.1 Analytical results summary: see Certificate of Analysis.

3.2 Chromatograms, quantitation reports and injection log for samples and QC runs for the batch: See Appendix 1.

3.3 Chain of custody record: A copy is included with the Certificate of Analysis.

3.4 Copies of bench sheets and secondary review checklist: Appendix 2.

#### 4. Calibration Data

4.1 Initial Calibration summary and chromatograms: See Appendix 3.

4.2 Continuing calibration summary and chromatograms: See Appendix 1.

5. Raw Data

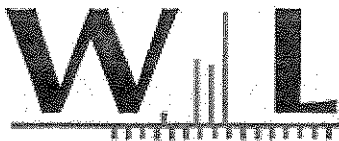
5.1 Chromatograms and quantitation for MS/MSD and LCS: See Appendix 1.

5.2 Bench sheets: See Appendix 2.

6. Standards Preparation Records

6.1 See Appendix 4 for copies of standards and solutions preparation

Appendix 1- Chromatograms, Quant Reports and Injection logs



Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

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info@wecklabs.com www.wecklabs.com

**CERTIFICATE OF ANALYSIS**

**Client:** Pace Analytical Services  
940 South Harney Street  
Seattle, WA 98108  
Attention: Kara Godineaux

**Report Date:** 03/14/08 11:20  
**Received Date:** 02/27/08 09:50  
**Turn Around:** Normal

**Work Order #:** 8022735

Phone: (206) 957-2422  
Fax: (206) 767-5063

**Client Project:** JPL/EPTM

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Kara Godineaux :

Enclosed are the results of analyses for samples received 02/27/08 09:50 with the Chain of Custody document. The samples were received in good condition. The samples were received at 2.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

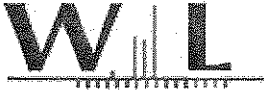
Kim G Tu

Project Manager

Page 1 of 26







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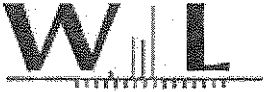
Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
JPL94-003	Client		8022735-49	Water	02/08/08 08:31
JPL94-005	Client		8022735-50	Water	02/08/08 08:49
JPL94-006	Client		8022735-51	Water	02/08/08 08:56
JPL94-004	Client		8022735-52	Water	02/08/08 09:09
JPL94-007	Client		8022735-53	Water	02/11/08 08:24
JPL94-008	Client		8022735-54	Water	02/11/08 11:25
JPL95-003	Client		8022735-55	Water	02/12/08 00:00
JPL95-001	Client		8022735-56	Water	02/12/08 09:06
JPL95-002	Client		8022735-57	Water	02/12/08 11:28
EPTM19-001	Client		8022735-58	Water	02/12/08 13:00
EPTM19-003	Client		8022735-59	Water	02/12/08 13:15
EPTM19-004	Client		8022735-60	Water	02/12/08 13:15
EPTM19-005	Client		8022735-61	Water	02/12/08 13:30
JPL96-003	Client		8022735-62	Water	02/13/08 00:00
JPL96-001	Client		8022735-63	Water	02/13/08 08:30
JPL96-002	Client		8022735-64	Water	02/13/08 10:53
JPL97-001	Client		8022735-65	Water	02/14/08 08:17
EPTM20-001	Client		8022735-66	Water	02/20/08 16:00
EPTM20-003	Client		8022735-67	Water	02/20/08 16:30
EPTM20-004	Client		8022735-68	Water	02/20/08 16:30
PGWW080201-001	Client		8022735-69	Water	02/08/08 11:00



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Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

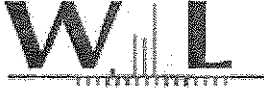
Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

JPL94-003 8022735-49 (Water)

Date Sampled: 02/08/08 08:31

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	6.5	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

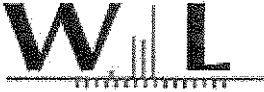
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Date Reported: 03/14/08 11:20

JPL94-005 8022735-50 (Water)

Date Sampled: 02/08/08 08:49

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

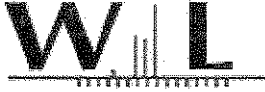
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Date Reported: 03/14/08 11:20

JPL94-006 8022735-51 (Water)

Date Sampled: 02/08/08 08:56

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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Report ID: 8022735  
Project ID: JPL/EPTM

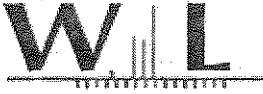
Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

JPL94-004 8022735-52 (Water)

Date Sampled: 02/08/08 09:09

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.4	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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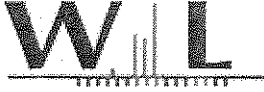
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/14/08 11:20
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JPL94-007 8022735-53 (Water)

Date Sampled: 02/11/08 08:24

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	56	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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 Seattle WA, 98108

Report ID: 8022735  
 Project ID: JPL/EPTM

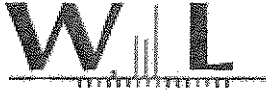
Date Received: 02/27/08 09:50  
 Date Reported: 03/14/08 11:20

JPL94-008 8022735-54 (Water)

Date Sampled: 02/11/08 11:25

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.0	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/14/08 11:20
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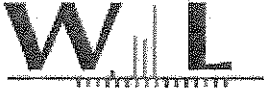
JPL95-003 8022735-55 (Water)

Date Sampled: 02/12/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	4.5	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	





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Report ID: 8022735  
Project ID: JPL/EPTM

Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

JPL95-001 8022735-56 (Water)

Date Sampled: 02/12/08 09:06

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.1	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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 Phone 626.336.2139 Fax 626.336.2634

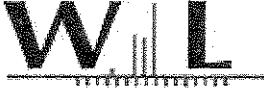
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/14/08 11:20
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JPL95-002 8022735-57 (Water)

Date Sampled: 02/12/08 11:28

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	78	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

Pace Analytical Services  
940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

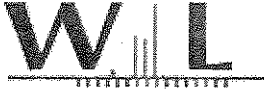
Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

EPTM19-001 8022735-58 (Water)

Date Sampled: 02/12/08 13:00

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	290	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

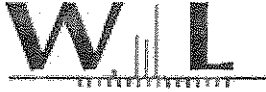
Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

EPTM19-003 8022735-59 (Water)

Date Sampled: 02/12/08 13:15

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	290	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

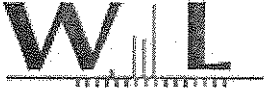
Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

EPTM19-004 8022735-60 (Water)

Date Sampled: 02/12/08 13:15

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	280	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

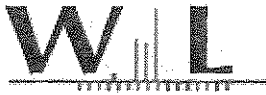
Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

EPTM19-005 8022735-61 (Water)

Date Sampled: 02/12/08 13:30

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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 940 South Harney Street  
 Seattle WA, 98108

Report ID: 8022735  
 Project ID: JPL/EPTM

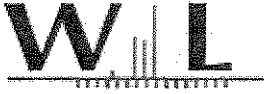
Date Received: 02/27/08 09:50  
 Date Reported: 03/14/08 11:20

JPL96-003 8022735-62 (Water)

Date Sampled: 02/13/08 00:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	300	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/14/08 11:20
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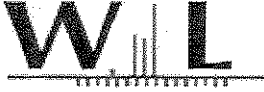
JPL96-001 8022735-63 (Water)

Date Sampled: 02/13/08 08:30

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.6	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	





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940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

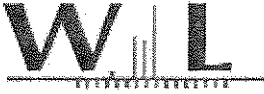
Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

JPL96-002 8022735-64 (Water)

Date Sampled: 02/13/08 10:53

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	310	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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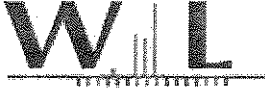
Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/14/08 11:20
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JPL97-001 8022735-65 (Water)

Date Sampled: 02/14/08 08:17

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	3.6	0.45	ug/l	2.0	1	EPA 314.0	W8C0163	03/03/08	03/03/08	mac	



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 Industry, CA 91745  
 Phone 626.336.2139 Fax 626.336.2634

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 940 South Harney Street  
 Seattle WA, 98108

Report ID: 8022735  
 Project ID: JPL/EPTM

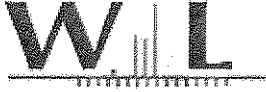
Date Received: 02/27/08 09:50  
 Date Reported: 03/14/08 11:20

EPTM20-001 8022735-66 (Water)

Date Sampled: 02/20/08 16:00

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	310	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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940 South Harney Street  
Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

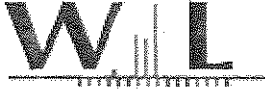
Date Received: 02/27/08 09:50  
Date Reported: 03/14/08 11:20

EPTM20-003 8022735-67 (Water)

Date Sampled: 02/20/08 16:30

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	290	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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Seattle WA, 98108

Report ID: 8022735  
Project ID: JPL/EPTM

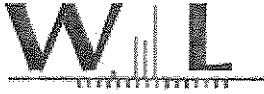
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Date Reported: 03/14/08 11:20

EPTM20-004 8022735-68 (Water)

Date Sampled: 02/20/08 16:30

**Perchlorate by EPA 314.0**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	300	2.2	ug/l	10	5	EPA 314.0	W8C0163	03/03/08	03/04/08	mac	



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Pace Analytical Services 940 South Harney Street Seattle WA, 98108	Report ID: 8022735 Project ID: JPL/EPTM	Date Received: 02/27/08 09:50 Date Reported: 03/14/08 11:20
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PGWW080201-001 8022735-69 (Water)

Date Sampled: 02/08/08 11:00

Perchlorate by EPA 314.0

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Perchlorate	ND	0.45	ug/l	2.0	1	EPA 314.0	W8C0164	03/03/08	03/04/08	mac	

**CAS SR #P0800093**

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Hexavalent Chromium Raw Data..... 14-25



## LABORATORY REPORT

January 31, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

### RE: JPL Groundwater Monitoring 1Q08 / G486090

Dear David:

Enclosed are the results of the samples submitted to our laboratory on 01/23/08. For your reference, these analyses have been assigned our service request number P0800093.

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 and reported herein. Your report contains 25 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager



Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08 / G486090

CAS Project No: P0800093

---

### CASE NARRATIVE

The samples were received intact under chain of custody on 01/23/08 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

#### Hexavalent Chromium by EPA Method 7196A

No anomalies were encountered during this analysis.

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*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800093

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800093-001	MW-21-5	01/23/08	08:45
P0800093-002	MW-21-4	01/23/08	09:12
P0800093-003	MW-21-3	01/23/08	09:42
P0800093-004	MW-21-2	01/23/08	10:33
P0800093-005	MW-21-1	01/23/08	11:05
P0800093-006	EB-1-1/23/08	01/23/08	10:52

# Columbia Analytical Services, Inc.

## Acronyms

<b>8015M</b>	California DHS LUFT Method
<b>ASTM</b>	American Society for Testing and Materials
<b>BOD</b>	Biochemical Oxygen Demand
<b>BTEX</b>	Benzene/Toluene/Ethylbenzene/Xylenes
<b>CAM</b>	California Assessment Metals
<b>CAS Number</b>	Chemical Abstract Service Registry Number
<b>CFC</b>	Chlorofluorocarbon
<b>COD</b>	Chemical Oxygen Demand
<b>CRDL</b>	Contract Required Detection Limit
<b>D</b>	Detected; result must be greater than zero.
<b>DL</b>	Detected; result must be greater than the detection limit.
<b>DLCS</b>	Duplicate Laboratory Control Sample
<b>DMS</b>	Duplicate Matrix Spike
<b>DOH or DHS</b>	Department of Health Services
<b>ELAP</b>	Environmental Laboratory Accreditation Program
<b>EPA</b>	U.S. Environmental Protection Agency
<b>GC</b>	Gas Chromatography
<b>GC/MS</b>	Gas Chromatography/Mass Spectrometry
<b>IC</b>	Ion Chromatography
<b>ICB</b>	Initial Calibration Blank sample
<b>ICP</b>	Inductively Coupled Plasma atomic emission spectrometry
<b>ICV</b>	Initial Calibration Verification sample
<b>LCS</b>	Laboratory Control Sample
<b>LUFT</b>	Leaking Underground Fuel Tank
<b>M</b>	Modified
<b>MBAS</b>	Methylene Blue Active Substances
<b>MDL</b>	Method Detection Limit
<b>MRL</b>	Method Reporting Limit
<b>MS</b>	Matrix Spike
<b>MTBE</b>	Methyl- <i>tert</i> -Butyl Ether
<b>NA</b>	Not Applicable
<b>NC</b>	Not Calculated
<b>ND</b>	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
<b>NTU</b>	Nephelometric Turbidity Units
<b>ppb</b>	Parts Per Billion
<b>ppm</b>	Parts Per Million
<b>PQL</b>	Practical Quantitation Limit
<b>QA/QC</b>	Quality Assurance/Quality Control
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>RPD</b>	Relative Percent Difference
<b>SIM</b>	Selected Ion Monitoring
<b>SM</b>	<i>Standard Methods for the Examination of Water and Wastewater</i> , 18th Ed., 1992.
<b>STLC</b>	Solubility Threshold Limit Concentration
<b>SW</b>	<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.
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TDS</b>	Total Dissolved Solids
<b>TPH</b>	Total Petroleum Hydrocarbons
<b>TSS</b>	Total Suspended Solids
<b>TTLC</b>	Total Threshold Limit Concentration
<b>VOA</b>	Volatile Organic Analyte(s)

## Qualifiers

<b>U</b>	Undetected at or above MDL/MRL (PQL).
<b>J</b>	Estimated concentration. Analyte detected above MDL, but below MRL (PQL).
<b>B</b>	Hit above MRL (PQL) also found in Method Blank.
<b>E</b>	Analyte concentration above high point of ICAL.
<b>N</b>	Presumptive evidence of compound.
<b>D</b>	Result from dilution.
<b>X</b>	See case narrative.



2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

CAS Project No. P0800093  
 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>BATTELLE</b> 3990 OLD TOWN AVE, C-205 SAN DIEGO, CA 92110		Project Name <u>SPL GAL MON 1208</u>	
Project Manager <b>DAVID CONNER</b>		Project Number <u>6486090</u>	
Phone <u>619-726-7311</u>	Fax	P.O. # / Billing Information <u># 214319</u> ATTN: GERALD TOMPKINS <u>505 KIMBLE AVE</u> <u>COLUMBUS, OH 43201</u>	
Email Address for Result Reporting		Sampler (Print & Sign)	

Analysis Method and/or Analytes	Preservative Code	
	0	(719) C-VI
Volatile Organics GC/MS <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas		
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)		

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Remarks
MW-21-5	1	1/23/08	845	W	4	
MW-21-4	2		912		1	
MW-21-3	3		942		2	MS/MSD
MW-21-2	4		1033		1	
MW-21-1	5		1105		1	
EB-1-1/23/08	6		1052		1	EQUIP. 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)  No  
 MDL / PQL / J required Yes / No  No  
 EDD required Yes / No  No

Relinquished by: (Signature) \_\_\_\_\_ Date: 1/23/08 Time: 1200  
 Relinquished by: (Signature) \_\_\_\_\_ Date: 1/23/08 Time: 1242  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_ Date: 1/23/08 Time: 1203  
 Received by: (Signature) \_\_\_\_\_ Date: 1/23/08 Time: 1242  
 Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Project Requirements (MRLs, QAPP)  
 Cooler/Blank/ Ice No Ice     
 Temperature 3 °C /

# Columbia Analytical Services, Inc.

## Chain of Custody Report

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800093

<b>Bottle ID</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
P0800093-001.01	01/23/2008	1304	SMO / LKUKITA	
	01/23/2008	1335	In Lab / DCASTILLO	
	01/23/2008	1517	P-37 / DCASTILLO	
P0800093-002.01	01/23/2008	1304	SMO / LKUKITA	
	01/23/2008	1335	In Lab / DCASTILLO	
	01/23/2008	1516	P-37 / DCASTILLO	
P0800093-003.01	01/23/2008	1304	SMO / LKUKITA	
	01/23/2008	1335	In Lab / DCASTILLO	
	01/23/2008	1516	P-37 / DCASTILLO	
P0800093-003.02	01/23/2008	1304	SMO / LKUKITA	
	01/23/2008	1335	In Lab / DCASTILLO	
	01/23/2008	1516	P-37 / DCASTILLO	
P0800093-004.01	01/23/2008	1304	SMO / LKUKITA	
	01/23/2008	1335	In Lab / DCASTILLO	
	01/23/2008	1517	P-37 / DCASTILLO	
P0800093-005.01	01/23/2008	1304	SMO / LKUKITA	
	01/23/2008	1335	In Lab / DCASTILLO	
	01/23/2008	1517	P-37 / DCASTILLO	
P0800093-006.01	01/23/2008	1304	SMO / LKUKITA	
	01/23/2008	1335	In Lab / DCASTILLO	
	01/23/2008	1517	P-37 / DCASTILLO	

**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle

Work order: P0800093

Project: JPL Groundwater Monitoring 1Q08 / G486090

Sample(s) received on: 1/23/08

Date opened: 1/23/08

by: LKUKITA

*Note:* This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |    |  | <u>Yes</u>                          | <u>No</u>                           | <u>N/A</u>                          |
|----|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1  | Were <b>sample containers</b> properly marked with client sample ID?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2  | Container(s) <b>supplied by CAS</b> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3  | Did <b>sample containers</b> arrive in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4  | Were <b>chain-of-custody</b> papers used and filled out?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5  | Did <b>sample container labels</b> and/or tags agree with custody papers?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6  | Was <b>sample volume</b> received adequate for analysis?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7  | Are samples within specified holding times?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8  | Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?<br>Cooler Temperature _____ °C    Blank Temperature <u>3</u> °C  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 9  | Was a <b>trip blank</b> received?<br>Trip blank supplied by CAS: Serial # _____ -TB _____  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10 | Were <b>custody seals</b> on outside of cooler/Box?<br>Location of seal(s)? _____ Sealing Lid? _____<br>Were signature and date included? _____<br>Were seals intact? _____<br>Were custody seals on outside of sample container?<br>Location of seal(s)? _____ Sealing Lid? _____<br>Were signature and date included? _____<br>Were seals intact? _____                            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 11 | Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information?<br>Is there a client indication that the submitted samples are <b>pH</b> preserved?<br>Were <b>VOA vials</b> checked for presence/absence of air bubbles?<br>Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 12 | <b>Tubes:</b> Are the tubes capped and intact?<br>Do they contain moisture?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 | <b>Badges:</b> Are the badges properly capped and intact?<br>Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0800093-001.01	125mL Plastic NP					
P0800093-002.01	125mL Plastic NP					
P0800093-003.01	125mL Plastic NP					
P0800093-003.02	125mL Plastic NP					
P0800093-004.01	125mL Plastic NP					
P0800093-005.01	125mL Plastic NP					
P0800093-006.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_  
MS/MSD on sample -003 per client request \_\_\_\_\_

\*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12); Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12)      RSK - MBEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

P0800093\_Battelle\_JPL Groundwater Monitoring 1Q08 \_ G486090 - Page 1 of 1

**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 1Q08  
 Project Number : G486090  
 Sample Matrix : WATER

Service Request : P0800093  
 Date Collected : 01/23/08  
 Date Received : 01/23/08


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	P0800093-001	0.010	0.004	1	NA	01/23/08 14:45	ND	
MW-21-4	P0800093-002	0.010	0.004	1	NA	01/23/08 14:45	ND	
MW-21-3	P0800093-003	0.010	0.004	1	NA	01/23/08 14:45	0.005	J
MW-21-2	P0800093-004	0.010	0.004	1	NA	01/23/08 14:45	ND	
MW-21-1	P0800093-005	0.010	0.004	1	NA	01/23/08 14:45	ND	
EB-1-1/23/08	P0800093-006	0.010	0.004	1	NA	01/23/08 14:45	ND	
Method Blank	P0800093-MB	0.010	0.004	1	NA	01/23/08 14:45	ND	

J Estimated concentration. The result is less than the PQL but greater than the MDL.

Approved By 

Date : 1/31/08



**CAS SR #P0800112**

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## LABORATORY REPORT

February 8, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

### RE: JPL Groundwater Monitoring 1Q08 / G486090

Dear David:

Enclosed are the results of the samples submitted to our laboratory on 01/28/08. For your reference, these analyses have been assigned our service request number P0800112.

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 and reported herein. Your report contains 25 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08 / G486090

CAS Project No: P0800112

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### CASE NARRATIVE

The sample(s) were received intact under chain of custody on 01/28/08 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample(s) at the time of sample receipt.

#### Hexavalent Chromium by EPA Method 7196A

No anomalies were encountered during this analysis.

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*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800112

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800112-001	MW-12-3	01/28/08	09:21
P0800112-002	MW-12-2	01/28/08	09:58
P0800112-003	MW-12-1	01/28/08	10:27
P0800112-004	EB-2-01/28/08	01/28/08	10:22

# Columbia Analytical Services, Inc.

## Acronyms

CA LUFT	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
CRDL	Contract Required Detection Limit
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified Method
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> , 19th Ed., 1995.
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.
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLIC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)
VOC	Volatile Organic Compound(s)

## Qualifiers

U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
J	The result is an estimated concentration that is less than the MRL (PQL), but greater than or equal to the MDL.
B	Analyte detected in the method blank above MRL (PQL).
E	Estimated; result based on response which exceeded the instrument calibration range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
D	The reported result is from a dilution.
X	See case narrative.



# Columbia Analytical Services, Inc.

## Chain of Custody Report

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800112

<b>Bottle ID</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
P0800112-001.01	01/28/2008	1327	SMO / LKUKITA	
	01/28/2008	1342	In Lab / DCASTILLO	
	01/28/2008	1537	P-37 / DCASTILLO	
P0800112-002.01	01/28/2008	1327	SMO / LKUKITA	
	01/28/2008	1342	In Lab / DCASTILLO	
	01/28/2008	1538	P-37 / DCASTILLO	
P0800112-003.01	01/28/2008	1327	SMO / LKUKITA	
	01/28/2008	1342	In Lab / DCASTILLO	
	01/28/2008	1538	P-37 / DCASTILLO	
P0800112-003.02	01/28/2008	1327	SMO / LKUKITA	
	01/28/2008	1342	In Lab / DCASTILLO	
	01/28/2008	1537	P-37 / DCASTILLO	
P0800112-004.01	01/28/2008	1327	SMO / LKUKITA	
	01/28/2008	1342	In Lab / DCASTILLO	
	01/28/2008	1538	P-37 / DCASTILLO	

**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle

Work order: P0800112

Project: JPL Groundwater Monitoring 1Q08 / G486090

Sample(s) received on: 1/28/08

Date opened: 1/28/08

by: LKUKITA

*Note:* This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |  | Yes                                 | No                                  | N/A                                 |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2 Container(s) <b>supplied by CAS</b> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3 Did <b>sample containers</b> arrive in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4 Were <b>chain-of-custody</b> papers used and filled out?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5 Did <b>sample container labels</b> and/or tags agree with custody papers?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6 Was <b>sample volume</b> received adequate for analysis?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7 Are samples within specified holding times?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Cooler Temperature _____ °C    Blank Temperature <u>3</u> °C   |                                     |                                     |                                     |
| 9 Was a <b>trip blank</b> received?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Trip blank supplied by CAS: Serial # _____ -TB _____   |                                     |                                     |                                     |
| 10 Were <b>custody seals</b> on outside of cooler/Box?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12 <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Do they contain moisture?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0800112-001.01	125mL Plastic NP					
P0800112-002.01	125mL Plastic NP					
P0800112-003.01	125mL Plastic NP					
P0800112-003.02	125mL Plastic NP					
P0800112-004.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

Run MS/MSD on -003 per client request. \_\_\_\_\_

\*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12)

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



**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 1Q08  
Project Number : G486090  
Sample Matrix : WATER

Service Request : P0800112  
Date Collected : 01/28/08  
Date Received : 01/28/08

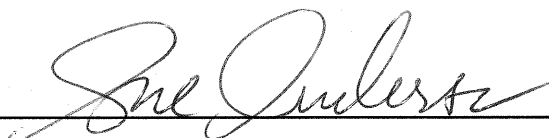
Chromium, Hexavalent

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-12-3	P0800112-001	0.010	0.004	1	NA	01/28/08 14:45	ND	
MW-12-2	P0800112-002	0.010	0.004	1	NA	01/28/08 14:45	ND	
MW-12-1	P0800112-003	0.010	0.004	1	NA	01/28/08 14:45	ND	
EB-2-01/28/08	P0800112-004	0.010	0.004	1	NA	01/28/08 14:45	ND	
Method Blank	P0800112-MB	0.010	0.004	1	NA	01/28/08 14:45	ND	

Approved By



Date :

2/8/08



**CAS SR #P0800120**

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## LABORATORY REPORT

February 6, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

### RE: JPL Groundwater Monitoring 1Q08 / G486090

Dear David:

Enclosed are the results of the sample(s) submitted to our laboratory on 01/29/08. For your reference, these analyses have been assigned our service request number P0800120.

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 and reported herein. Your report contains 26 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08 / G486090

CAS Project No: P0800120

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## CASE NARRATIVE

The sample(s) were received intact under chain of custody on 01/29/08 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample(s) at the time of sample receipt.

### Hexavalent Chromium by EPA Method 7196A

No anomalies were encountered during this analysis.

---

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08/G486090

Service Request: P0800120

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800120-001	MW-22-3	01/29/08	07:51
P0800120-002	MW-22-2	01/29/08	08:27
P0800120-003	MW-22-1	01/29/08	09:01
P0800120-004	EB-3-01/29/08	01/29/08	08:20
P0800120-005	MW-11-3	01/29/08	10:50
P0800120-006	MW-11-2	01/29/08	11:20
P0800120-007	MW-11-1	01/29/08	12:03
P0800120-008	DUPE-1-1Q08	01/29/08	00:00

# Columbia Analytical Services, Inc.

## Acronyms

<b>8015M</b>	California DHS LUFT Method
<b>ASTM</b>	American Society for Testing and Materials
<b>BOD</b>	Biochemical Oxygen Demand
<b>BTEX</b>	Benzene/Toluene/Ethylbenzene/Xylenes
<b>CAM</b>	California Assessment Metals
<b>CAS Number</b>	Chemical Abstract Service Registry Number
<b>CFC</b>	Chlorofluorocarbon
<b>COD</b>	Chemical Oxygen Demand
<b>CRDL</b>	Contract Required Detection Limit
<b>D</b>	Detected; result must be greater than zero.
<b>DL</b>	Detected; result must be greater than the detection limit.
<b>DLCS</b>	Duplicate Laboratory Control Sample
<b>DMS</b>	Duplicate Matrix Spike
<b>DOH or DHS</b>	Department of Health Services
<b>ELAP</b>	Environmental Laboratory Accreditation Program
<b>EPA</b>	U.S. Environmental Protection Agency
<b>GC</b>	Gas Chromatography
<b>GC/MS</b>	Gas Chromatography/Mass Spectrometry
<b>IC</b>	Ion Chromatography
<b>ICB</b>	Initial Calibration Blank sample
<b>ICP</b>	Inductively Coupled Plasma atomic emission spectrometry
<b>ICV</b>	Initial Calibration Verification sample
<b>LCS</b>	Laboratory Control Sample
<b>LUFT</b>	Leaking Underground Fuel Tank
<b>M</b>	Modified
<b>MBAS</b>	Methylene Blue Active Substances
<b>MDL</b>	Method Detection Limit
<b>MRL</b>	Method Reporting Limit
<b>MS</b>	Matrix Spike
<b>MTBE</b>	Methyl- <i>tert</i> -Butyl Ether
<b>NA</b>	Not Applicable
<b>NC</b>	Not Calculated
<b>ND</b>	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
<b>NTU</b>	Nephelometric Turbidity Units
<b>ppb</b>	Parts Per Billion
<b>ppm</b>	Parts Per Million
<b>PQL</b>	Practical Quantitation Limit
<b>QA/QC</b>	Quality Assurance/Quality Control
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>RPD</b>	Relative Percent Difference
<b>SIM</b>	Selected Ion Monitoring
<b>SM</b>	<i>Standard Methods for the Examination of Water and Wastewater</i> , 18th Ed., 1992.
<b>STLC</b>	Solubility Threshold Limit Concentration
<b>SW</b>	<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.
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TDS</b>	Total Dissolved Solids
<b>TPH</b>	Total Petroleum Hydrocarbons
<b>TSS</b>	Total Suspended Solids
<b>TTLC</b>	Total Threshold Limit Concentration
<b>VOA</b>	Volatile Organic Analyte(s)

## Qualifiers

<b>U</b>	Undetected at or above MDL/MRL (PQL).
<b>J</b>	Estimated concentration. Analyte detected above MDL, but below MRL (PQL).
<b>B</b>	Hit above MRL (PQL) also found in Method Blank.
<b>E</b>	Analyte concentration above high point of ICAL.
<b>N</b>	Presumptive evidence of compound.
<b>D</b>	Result from dilution.
<b>X</b>	See case narrative.

# 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. 20800120  
 CAS Contact:

Company Name & Address (Reporting Information)		Project Name		Analysis Method and/or Analytes		Preservative Key	
BATTELLE 3990 OLD TOWN AVE. C-205 SAN DIEGO, CA 92110		SPL GW MON 1808		0		0 None 1 HCL 2 HNO3 3 H2SO4 4 NaOH 5 Zn Acetate 6 Asc Acid 7 Other	
Project Manager DAVID CONNER		Project Number G486090		Preservative Code		Remarks	
P.O. # / Billing Information # 214319 ATTN: GERALD THOMPINS 505 KING AVE COLUMBUS, OH 43201		Sampler (Print & Sign)		Volatiles GC/MS 624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>			
Phone 619-726-7311		Matrix		TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)			
Fax		Time Collected		TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)			
Email Address for Result Reporting		Date Collected		BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/>			
		Laboratory ID Number		TPH Gas 8015B <input type="checkbox"/>			
		Client Sample ID		TPH FC 8015M (Subcontracted)			
		MW-22-3		Semi-Volatile Organics GC/MS 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)			
		MW-22-2		X			
		MW-22-1		X			
		EB-3-01/29/08		X		EQUIP. 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: 8/29/08 Time: 1330  
 Relinquished by: (Signature) A. DAVIN Date: 8/29/08 Time: 1330  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Project Requirements (MRLs, GAPP)  
 Cooler / Blank / Ice / No Ice \_\_\_\_\_  
 Temperature 3 °C



# 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: 20800120  
 CAS Contact:

Company Name & Address (Reporting Information)  
**BATTELLE**  
 3990 OLD TOWN AVE, C-205  
 SAN DIEGO, CA 92110

Project Manager  
**DAVID CONNER**

Phone 619-726-7311 Fax  
 P.O. # / Billing Information  
214319  
 ATTN: GERALD TOMPKINS  
 505 KINLA AVE.  
 COLUMBIAS, OH 43201

Project Name  
JPL GAW MON 1808

Project Number  
6486090

Sampler (Print & Sign)

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Analysis Method and/or Analytes							Preservative Key	Remarks	
						624 <input type="checkbox"/> Volatile Organics GC/MS	625 <input type="checkbox"/> Semi-Volatile Organics GC/MS	TPH FC <input type="checkbox"/> 8015M (Subcontracted)	TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)	BTEX 8021B <input type="checkbox"/> MTFE 8021B <input type="checkbox"/>	TPH Gas 8015B <input type="checkbox"/>	TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)			TPH FC <input type="checkbox"/> 8015M (Subcontracted)
MW-11-3	5	01/29/08	1050	W	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	
MW-11-2	6	1	1120	W	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	
MW-11-1	7	1	1203	W	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	LEVEL III-QC
DUPE-1-1808	8	1	1120	W	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	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 / PQL / J required Yes/No \_\_\_\_\_

EDD required Yes/No \_\_\_\_\_  
 Type: AlphaTrack

Relinquished by: (Signature) \_\_\_\_\_ Date: 2/2/08 Time: 1:30  
 Relinquished by: (Signature) A. DAVIS Date: 2/2/08 Time: 1:47  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Project Requirements (MRLs, QAPP)  
 Cooler /  Ice / No Ice \_\_\_\_\_  
 Temperature 3 °C

# Columbia Analytical Services, Inc.

## Chain of Custody Report

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800120

Bottle ID	Date	Time	Sample Location / User	Disposed On
P0800120-001.01	01/29/2008	1433	SMO / SSTAPLES	
	01/29/2008	1440	In Lab / DCASTILLO	
	01/29/2008	1739	P-37 / DCASTILLO	
P0800120-002.01	01/29/2008	1433	SMO / SSTAPLES	
	01/29/2008	1440	In Lab / DCASTILLO	
	01/29/2008	1739	P-37 / DCASTILLO	
P0800120-003.01	01/29/2008	1433	SMO / SSTAPLES	
	01/29/2008	1441	In Lab / DCASTILLO	
	01/29/2008	1739	P-37 / DCASTILLO	
P0800120-004.01	01/29/2008	1433	SMO / SSTAPLES	
	01/29/2008	1441	In Lab / DCASTILLO	
	01/29/2008	1739	P-37 / DCASTILLO	
P0800120-005.01	01/29/2008	1433	SMO / SSTAPLES	
	01/29/2008	1440	In Lab / DCASTILLO	
	01/29/2008	1739	P-37 / DCASTILLO	
P0800120-006.01	01/29/2008	1433	SMO / SSTAPLES	
	01/29/2008	1440	In Lab / DCASTILLO	
	01/29/2008	1739	P-37 / DCASTILLO	
P0800120-007.01	01/29/2008	1433	SMO / SSTAPLES	
	01/29/2008	1440	In Lab / DCASTILLO	
	01/29/2008	1739	P-37 / DCASTILLO	
P0800120-008.01	01/29/2008	1433	SMO / SSTAPLES	
	01/29/2008	1440	In Lab / DCASTILLO	
	01/29/2008	1739	P-37 / DCASTILLO	

**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle Work order: P0800120  
 Project: JPL Groundwater Monitoring 1Q08 / G486090  
 Sample(s) received on: 1/29/08 Date opened: 1/29/08 by: SSTAPLES

*Note:* This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |  | Yes                                 | No                                  | N/A                                 |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2 Container(s) <b>supplied by CAS</b> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3 Did <b>sample containers</b> arrive in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4 Were <b>chain-of-custody</b> papers used and filled out?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5 Did <b>sample container labels</b> and/or tags agree with custody papers?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6 Was <b>sample volume</b> received adequate for analysis?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7 Are samples within specified holding times?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Cooler Temperature _____ °C Blank Temperature <u>3</u> °C  |                                     |                                     |                                     |
| 9 Was a <b>trip blank</b> received?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Trip blank supplied by CAS: Serial # _____ -TB _____   |                                     |                                     |                                     |
| 10 Were <b>custody seals</b> on outside of cooler/Box?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12 <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Do they contain moisture?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0800120-001.01	125mL Plastic NP					
P0800120-002.01	125mL Plastic NP					
P0800120-003.01	125mL Plastic NP					
P0800120-004.01	125mL Plastic NP					
P0800120-005.01	125mL Plastic NP					
P0800120-006.01	125mL Plastic NP					
P0800120-007.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);  
 Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12) RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)  
 P0800120\_Battelle\_JPL Groundwater Monitoring 1Q08 - Page 1 of 2



**DIVIDER SHEET**

**ANALYTICAL DATA**

**FOR**

**Hexavalent Chromium**

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**ANALYSIS**

Analytical Report

Client : Battelle  
 Project Name : JPL Groundwater Monitoring 1Q08  
 Project Number : G486090  
 Sample Matrix : WATER

Service Request : P0800120  
 Date Collected : 01/29/08  
 Date Received : 01/29/08

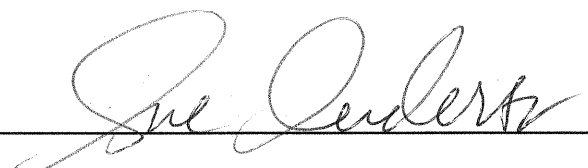
Chromium, Hexavalent

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-22-3	P0800120-001	0.010	0.004	1	NA	01/29/08 15:45	ND	
MW-22-2	P0800120-002	0.010	0.004	1	NA	01/29/08 15:45	ND	
MW-22-1	P0800120-003	0.010	0.004	1	NA	01/29/08 15:45	0.004	J
EB-3-01/29/08	P0800120-004	0.010	0.004	1	NA	01/29/08 15:45	ND	
MW-11-3	P0800120-005	0.010	0.004	1	NA	01/29/08 15:45	ND	
MW-11-2	P0800120-006	0.010	0.004	1	NA	01/29/08 15:45	ND	
MW-11-1	P0800120-007	0.010	0.004	1	NA	01/29/08 15:45	ND	
DUPE-1-1Q08	P0800120-008	0.010	0.004	1	NA	01/29/08 15:45	ND	
Method Blank	P0800120-MB	0.010	0.004	1	NA	01/29/08 15:45	ND	

J Estimated concentration. The result is less than the PQL but greater than the MDL.

Approved By 

Date : 2/6/08

**CAS SR #P0800129**

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Hexavalent Chromium Raw Data..... 12-23

## LABORATORY REPORT

February 7, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

**RE: JPL Groundwater Monitoring 1Q08 / G486090**

Dear David:

Enclosed are the results of the samples submitted to our laboratory on 01/30/08. For your reference, these analyses have been assigned our service request number P0800129.

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 and reported herein. Your report contains 25 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager



Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08 / G486090

CAS Project No: P0800129

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### CASE NARRATIVE

The sample(s) were received intact under chain of custody on 01/30/08 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample(s) at the time of sample receipt.

#### Hexavalent Chromium by EPA Method 7196A

No anomalies were encountered during this analysis.

---

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800129

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800129-001	MW-20-5	01/30/08	08:07
P0800129-002	MW-20-4	01/30/08	08:57
P0800129-003	MW-20-3	01/30/08	09:32
P0800129-004	MW-20-2	01/30/08	10:05
P0800129-005	MW-20-1	01/30/08	10:45
P0800129-006	EB-4-01/30/08	01/30/08	10:30

# Columbia Analytical Services, Inc.

## Acronyms

CA LUFT	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
CRDL	Contract Required Detection Limit
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified Method
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> , 19th Ed., 1995.
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.
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLIC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)
VOC	Volatile Organic Compound(s)

## Qualifiers

U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
J	The result is an estimated concentration that is less than the MRL (PQL), but greater than or equal to the MDL.
B	Analyte detected in the method blank above MRL (PQL).
E	Estimated; result based on response which exceeded the instrument calibration range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
D	The reported result is from a dilution.
X	See case narrative.



# Columbia Analytical Services, Inc.

## Chain of Custody Report

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08/G486090

Service Request: P0800129

Bottle ID	Date	Time	Sample Location / User	Disposed On
P0800129-001.01	01/30/2008	1322	SMO / LKUKITA	
	01/30/2008	1350	In Lab / DCASTILLO	
	01/30/2008	1838	P-37 / DCASTILLO	
P0800129-002.01	01/30/2008	1322	SMO / LKUKITA	
	01/30/2008	1350	In Lab / DCASTILLO	
	01/30/2008	1838	P-37 / DCASTILLO	
P0800129-003.01	01/30/2008	1322	SMO / LKUKITA	
	01/30/2008	1350	In Lab / DCASTILLO	
	01/30/2008	1838	P-37 / DCASTILLO	
P0800129-004.01	01/30/2008	1322	SMO / LKUKITA	
	01/30/2008	1350	In Lab / DCASTILLO	
	01/30/2008	1838	P-37 / DCASTILLO	
P0800129-005.01	01/30/2008	1322	SMO / LKUKITA	
	01/30/2008	1350	In Lab / DCASTILLO	
	01/30/2008	1837	P-37 / DCASTILLO	
P0800129-005.02	01/30/2008	1323	SMO / LKUKITA	
	01/30/2008	1350	In Lab / DCASTILLO	
	01/30/2008	1838	P-37 / DCASTILLO	
P0800129-006.01	01/30/2008	1322	SMO / LKUKITA	
	01/30/2008	1350	In Lab / DCASTILLO	
	01/30/2008	1837	P-37 / DCASTILLO	

**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle

Work order: P0800129

Project: JPL Groundwater Monitoring 1Q08 / G486090

Sample(s) received on: 1/30/08

Date opened: 1/30/08

by: LKUKITA

*Note:* This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |    |  | <b>Yes</b>                          | <b>No</b>                           | <b>N/A</b>                          |
|----|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1  | Were <b>sample containers</b> properly marked with client sample ID?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2  | Container(s) <b>supplied by CAS</b> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3  | Did <b>sample containers</b> arrive in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4  | Were <b>chain-of-custody</b> papers used and filled out?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5  | Did <b>sample container labels</b> and/or tags agree with custody papers?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6  | Was <b>sample volume</b> received adequate for analysis?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7  | Are samples within specified holding times?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8  | Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?<br>Cooler Temperature _____ °C    Blank Temperature <u>3</u> °C  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 9  | Was a <b>trip blank</b> received?<br>Trip blank supplied by CAS: Serial # _____ -TB _____  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10 | Were <b>custody seals</b> on outside of cooler/Box?<br>Location of seal(s)? _____ Sealing Lid?<br>Were signature and date included?<br>Were seals intact?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|    | Were custody seals on outside of sample container?<br>Location of seal(s)? _____ Sealing Lid?<br>Were signature and date included?<br>Were seals intact?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 11 | Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information?<br>Is there a client indication that the submitted samples are <b>pH</b> preserved?<br>Were <b>VOA vials</b> checked for presence/absence of air bubbles?<br>Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 12 | <b>Tubes:</b> Are the tubes capped and intact?<br>Do they contain moisture?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 | <b>Badges:</b> Are the badges properly capped and intact?<br>Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0800129-001.01	125mL Plastic NP					
P0800129-002.01	125mL Plastic NP					
P0800129-003.01	125mL Plastic NP					
P0800129-004.01	125mL Plastic NP					
P0800129-005.01	125mL Plastic NP					
P0800129-005.02	125mL Plastic NP					
P0800129-006.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12)

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

**DIVIDER SHEET**

**ANALYTICAL DATA**

**FOR**

**Hexavalent Chromium**

---

**ANALYSIS**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Battelle  
Project Name : JPL Groundwater Monitoring 1Q08  
Project Number : G486090  
Sample Matrix : WATER

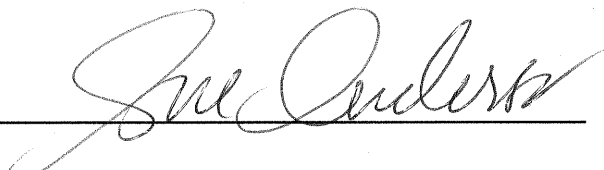
Service Request : P0800129  
Date Collected : 01/30/08  
Date Received : 01/30/08

Chromium, Hexavalent

Prep Method : None  
Analysis Method : 7196A  
Test Notes :

Units : mg/L (ppm)  
Basis : NA

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date/Time Analyzed	Result	Result Notes
MW-20-5	P0800129-001	0.010	1	NA	01/30/08 17:40	ND	
MW-20-4	P0800129-002	0.010	1	NA	01/30/08 17:40	ND	
MW-20-3	P0800129-003	0.010	1	NA	01/30/08 17:40	ND	
MW-20-2	P0800129-004	0.010	1	NA	01/30/08 17:40	ND	
MW-20-1	P0800129-005	0.010	1	NA	01/30/08 17:40	ND	
EB-4-01/30/08	P0800129-006	0.010	1	NA	01/30/08 17:40	ND	
Method Blank	P0800129-MB	0.010	1	NA	01/30/08 17:40	ND	

Approved By  Date : 2/7/08



**CAS SR #P0800139**

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## LABORATORY REPORT

February 8, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

### RE: JPL Groundwater Monitoring 1Q08 / G486090

Dear David:

Enclosed are the results of the sample(s) submitted to our laboratory on 01/31/08. For your reference, these analyses have been assigned our service request number P0800139.

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 and reported herein. Your report contains 27 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08 / G486090

CAS Project No: P0800139

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### CASE NARRATIVE

The sample(s) were received intact under chain of custody on 01/31/08 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample(s) at the time of sample receipt.

#### Hexavalent Chromium by EPA Method 7196A

No anomalies were encountered during this analysis.

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*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08/G486090

Service Request: P0800139

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800139-001	MW-17-4	01/31/08	08:11
P0800139-002	MW-17-3	01/31/08	08:54
P0800139-003	MW-17-2	01/31/08	09:20
P0800139-004	EB-5-01/31/08	01/31/08	09:11
P0800139-005	MW-18-4	01/31/08	11:38
P0800139-006	MW-18-3	01/31/08	12:20
P0800139-007	MW-18-2	01/31/08	12:51

# Columbia Analytical Services, Inc.

## Acronyms

CA LUFT	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
CRDL	Contract Required Detection Limit
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified Method
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> , 19th Ed., 1995.
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.
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)
VOC	Volatile Organic Compound(s)

## Qualifiers

U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
J	The result is an estimated concentration that is less than the MRL (PQL), but greater than or equal to the MDL.
B	Analyte detected in the method blank above MRL (PQL).
E	Estimated; result based on response which exceeded the instrument calibration range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
D	The reported result is from a dilution.
X	See case narrative.



**WATER & SOIL - VALIDATION OF USUARY METHOD & ANALYTICAL SERVICE REQUEST**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270



<b>Company Name &amp; Address (Reporting Information)</b> BATTLE 3990 OLD TOWN AVE. C-205 SAN DIEGO, CA 92110		<b>Project Name</b> SPL GW MON 1808		<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 20000139	
<b>Project Manager</b> DAVID CONNER		<b>Project Number</b> 6486090		<b>Analysis Method and/or Analytes</b>		CAS Contact:	
<b>Phone</b> 619-726-7311		<b>PO # / Billing Information</b> # 214319 ATTN: GERALD TOMPKINS 505 KING AVE. COLUMBUS, OH 43201		Preservative Code		Preservative Key 0 None 1 HCL 2 HNO3 3 H2SO4 4 NaOH 5 Zn Acetate 6 Asc Acid 7 Other	
<b>Email Address for Result Reporting</b>		<b>Sampler (Print &amp; Sign)</b>		Volatile Organics GC/MS <input type="checkbox"/> 624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas		Remarks	
Laboratory ID Number		Date Collected		Time Collected		Matrix	
Client Sample ID		Date Collected		Time Collected		Matrix	
MW-18-4		01/31/08		1138		W	
MW-18-3		1		1220			
MW-18-2		1		1251			
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 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>		0		X X X	
Relinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature)		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:	
Date: 01/31/08 Time: 1330		Date: 01/31/08 Time: 1401		Date: 01/31/08 Time: 1327		Date: 01/31/08 Time: 1401	
Relinquished by: (Signature)		Relinquished by: (Signature)		Relinquished by: (Signature)		Relinquished by: (Signature)	
Project Requirements (MRLs, QAPP)		Project Requirements (MRLs, QAPP)		Project Requirements (MRLs, QAPP)		Project Requirements (MRLs, QAPP)	

# Columbia Analytical Services, Inc.

## Chain of Custody Report

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800139

<b>Bottle ID</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
P0800139-001.01	01/31/2008	1419	SMO / LKUKITA	
	01/31/2008	1446	In Lab / DCASTILLO	
	01/31/2008	1608	P-37 / DCASTILLO	
P0800139-002.01	01/31/2008	1419	SMO / LKUKITA	
	01/31/2008	1446	In Lab / DCASTILLO	
	01/31/2008	1608	P-37 / DCASTILLO	
P0800139-003.01	01/31/2008	1419	SMO / LKUKITA	
	01/31/2008	1446	In Lab / DCASTILLO	
	01/31/2008	1608	P-37 / DCASTILLO	
P0800139-003.02	01/31/2008	1422	SMO / LKUKITA	
	01/31/2008	1446	In Lab / DCASTILLO	
	01/31/2008	1608	P-37 / DCASTILLO	
P0800139-004.01	01/31/2008	1419	SMO / LKUKITA	
	01/31/2008	1446	In Lab / DCASTILLO	
	01/31/2008	1608	P-37 / DCASTILLO	
P0800139-005.01	01/31/2008	1419	SMO / LKUKITA	
	01/31/2008	1446	In Lab / DCASTILLO	
	01/31/2008	1608	P-37 / DCASTILLO	
P0800139-006.01	01/31/2008	1419	SMO / LKUKITA	
	01/31/2008	1446	In Lab / DCASTILLO	
	01/31/2008	1608	P-37 / DCASTILLO	
P0800139-007.01	01/31/2008	1424	SMO / LKUKITA	
	01/31/2008	1446	In Lab / DCASTILLO	
	01/31/2008	1608	P-37 / DCASTILLO	



**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle

Work order: P0800139

Project: JPL Groundwater Monitoring 1Q08 / G486090

Sample(s) received on: 1/31/08

Date opened: 1/31/08

by: LKUKITA

**Note:** This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |  | Yes                                 | No                                  | N/A                                 |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2 Container(s) <b>supplied by CAS</b> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3 Did <b>sample containers</b> arrive in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4 Were <b>chain-of-custody</b> papers used and filled out?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5 Did <b>sample container labels</b> and/or tags agree with custody papers?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6 Was <b>sample volume</b> received adequate for analysis?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7 Are samples within specified holding times?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Cooler Temperature _____ °C    Blank Temperature <u>3</u> °C   |                                     |                                     |                                     |
| 9 Was a <b>trip blank</b> received?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Trip blank supplied by CAS: Serial # _____ -TB _____   |                                     |                                     |                                     |
| 10 Were <b>custody seals</b> on outside of cooler/Box?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12 <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Do they contain moisture?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0800139-001.01	125mL Plastic NP					
P0800139-002.01	125mL Plastic NP					
P0800139-003.01	125mL Plastic NP					
P0800139-003.02	125mL Plastic NP					
P0800139-004.01	125mL Plastic NP					
P0800139-005.01	125mL Plastic NP					
P0800139-006.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_  
 MS/MSD on -003 per client request



**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 1Q08  
 Project Number : G486090  
 Sample Matrix : WATER

Service Request : P0800139  
 Date Collected : 01/31/08  
 Date Received : 01/31/08

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-17-4	P0800139-001	0.01	0.004	1	NA	01/31/08 15:35	ND	
MW-17-3	P0800139-002	0.01	0.004	1	NA	01/31/08 15:35	0.004	J
MW-17-2	P0800139-003	0.01	0.004	1	NA	01/31/08 15:35	ND	
EB-5-01/31/08	P0800139-004	0.01	0.004	1	NA	01/31/08 15:35	ND	
MW-18-4	P0800139-005	0.01	0.004	1	NA	01/31/08 15:35	ND	
MW-18-3	P0800139-006	0.01	0.004	1	NA	01/31/08 15:35	0.005	J
MW-18-2	P0800139-007	0.01	0.004	1	NA	01/31/08 15:35	ND	
Method Blank	P0800139-MB	0.01	0.004	1	NA	01/31/08 15:35	ND	

J Estimated concentration. The result is less than the PQL but greater than the MDL.

Approved By 

Date : 2/8/08

**CAS SR #P0800155**

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Hexavalent Chromium Raw Data..... 14-24

## LABORATORY REPORT

February 11, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

### RE: JPL Groundwater Monitoring 1Q08 / G486090

Dear David:

Enclosed are the results of the sample(s) submitted to our laboratory on 02/04/08. For your reference, these analyses have been assigned our service request number P0800155.

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 and reported herein. Your report contains 24 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08 / G486090

CAS Project No: P0800155

---

### CASE NARRATIVE

The sample(s) were received intact under chain of custody on 02/04/08 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample(s) at the time of sample receipt.

#### **Hexavalent Chromium by EPA Method 7196A**

No anomalies were encountered during this analysis.

---

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*

# Columbia Analytical Services, Inc.

## Acronyms

CA LUFT	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
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CFC	Chlorofluorocarbon
CRDL	Contract Required Detection Limit
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DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
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GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
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ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
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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> , 19th Ed., 1995.
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.
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLIC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)
VOC	Volatile Organic Compound(s)

## Qualifiers

U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
J	The result is an estimated concentration that is less than the MRL (PQL), but greater than or equal to the MDL.
B	Analyte detected in the method blank above MRL (PQL).
E	Estimated; result based on response which exceeded the instrument calibration range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
D	The reported result is from a dilution.
X	See case narrative.



**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800155

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800155-001	MW-14-3	02/04/08	08:34
P0800155-002	MW-14-2	02/04/08	09:05
P0800155-003	MW-14-1	02/04/08	09:40
P0800155-004	EB-7-2/4/08	02/04/08	09:26

# 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

<b>Company Name &amp; Address (Reporting Information)</b> BATTLE 3990 OLD TOWN AVE. C-205 SAN DIEGO		<b>Project Name</b> JPL GW MON 1808		<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		<b>CAS Project No.</b> P0800155	
<b>Project Manager</b> DAVID CONNER		<b>Project Number</b> 6486090		<b>Analysis Method and/or Analytes</b>		<b>CAS Contact:</b>	
<b>Phone</b> 619-726-7311		<b>Fax</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>Email Address for Result Reporting</b> 619-726-7311		<b>Sampler (Print &amp; Sign)</b>		Volatile Organics GC/MS 624 <input type="checkbox"/> 8250B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>		<b>Remarks</b>	
<b>Client Sample ID</b>	<b>Laboratory ID Number</b>	<b>Date Collected</b>	<b>Time Collected</b>	<b>Matrix</b>	<b>Number of Containers</b>	Semi-Volatile Organics GC/MS 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)	
MW-14-3	1	2/4/08	834	W	1	TPH Diesel 8015B <input type="checkbox"/> (Subcontracted) TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted) TPH FC <input type="checkbox"/> 8015M (Subcontracted)	
MW-14-2	2	905	905		1	TPH Gas 8015B <input type="checkbox"/> BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/>	
MW-14-1	3		940		2	TPH Gas 8015B <input type="checkbox"/>	
EB-7-2/4/08	4		926		1	624 <input type="checkbox"/> 8250B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>	

<b>Report Tier Levels - please select</b> Tier I - (Results/Default if not specified) _____ Tier II - (Results + QC) _____ Tier III - (Data Validation Package) 10% Surcharge _____ Tier V - (client specified) _____		<b>EDD required Yes/No</b> Yes/No _____ Type: _____	
<b>Relinquished by: (Signature)</b> [Signature]		<b>Received by: (Signature)</b> [Signature]	
<b>Relinquished by: (Signature)</b> [Signature]		<b>Received by: (Signature)</b> [Signature]	
<b>Relinquished by: (Signature)</b> [Signature]		<b>Received by: (Signature)</b> [Signature]	
<b>Date:</b> 2/4/08 <b>Time:</b> 11:49		<b>Date:</b> 2/4/08 <b>Time:</b> 11:50	
<b>Date:</b> 2/4/08 <b>Time:</b> 11:49		<b>Date:</b> 2/4/08 <b>Time:</b> 11:50	
<b>Date:</b> 2/4/08 <b>Time:</b> 11:49		<b>Date:</b> 2/4/08 <b>Time:</b> 11:50	
<b>Project Requirements (MRLs, QAPP)</b>		<b>Cooler / Blank / Ice / No Ice</b> Cooler / Blank / Ice / No Ice _____	
<b>Temperature</b> _____ °C		<b>Temperature</b> _____ °C	

# Columbia Analytical Services, Inc.

## Chain of Custody Report

Client: Battelle  
 Project: JPL Groundwater Monitoring 1Q08/G486090

Service Request: P0800155

Bottle ID	Date	Time	Sample Location / User	Disposed On
P0800155-001.01	02/04/2008	1255	SMO / LKUKITA	
	02/04/2008	1314	In Lab / DCASTILLO	
	02/04/2008	1527	P-37 / DCASTILLO	
P0800155-002.01	02/04/2008	1255	SMO / LKUKITA	
	02/04/2008	1314	In Lab / DCASTILLO	
	02/04/2008	1527	P-37 / DCASTILLO	
P0800155-003.01	02/04/2008	1255	SMO / LKUKITA	
	02/04/2008	1314	In Lab / DCASTILLO	
	02/04/2008	1527	P-37 / DCASTILLO	
P0800155-003.02	02/04/2008	1255	SMO / LKUKITA	
	02/04/2008	1314	In Lab / DCASTILLO	
	02/04/2008	1524	P-37 / DCASTILLO	
P0800155-004.01	02/04/2008	1255	SMO / LKUKITA	
	02/04/2008	1314	In Lab / DCASTILLO	
	02/04/2008	1527	P-37 / DCASTILLO	

**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle

Work order: P0800155

Project: JPL Groundwater Monitoring 1Q08 / G486090

Sample(s) received on: 2/4/08

Date opened: 2/4/08

by: LKUKITA

*Note:* This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |  | Yes                                 | No                                  | N/A                                 |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2 Container(s) <b>supplied by CAS</b> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3 Did <b>sample containers</b> arrive in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4 Were <b>chain-of-custody</b> papers used and filled out?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5 Did <b>sample container labels</b> and/or tags agree with custody papers?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6 Was <b>sample volume</b> received adequate for analysis?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7 Are samples within specified holding times?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Cooler Temperature _____ °C    Blank Temperature <u>3</u> °C   |                                     |                                     |                                     |
| 9 Was a <b>trip blank</b> received?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Trip blank supplied by CAS: Serial # _____ -TB _____   |                                     |                                     |                                     |
| 10 Were <b>custody seals</b> on outside of cooler/Box?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12 <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Do they contain moisture?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0800155-001.01	125mL Plastic NP					
P0800155-002.01	125mL Plastic NP					
P0800155-003.01	125mL Plastic NP					
P0800155-003.02	125mL Plastic NP					
P0800155-004.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_  
MS/MSD on -003 per client request.

\*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12)

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

**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 1Q08  
Project Number : G486090  
Sample Matrix : WATER

Service Request : P0800155  
Date Collected : 02/04/08  
Date Received : 02/04/08

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-14-3	P0800155-001	0.01	0.004	1	NA	02/04/08 14:35	ND	
MW-14-2	P0800155-002	0.01	0.004	1	NA	02/04/08 14:35	ND	
MW-14-1	P0800155-003	0.01	0.004	1	NA	02/04/08 14:35	ND	
EB-7-2/4/08	P0800155-004	0.01	0.004	1	NA	02/04/08 14:35	ND	
Method Blank	P0800155-MB	0.01	0.004	1	NA	02/04/08 14:35	ND	

Approved By



Date :

2/11/08

**CAS SR #P0800179**

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## LABORATORY REPORT

February 12, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

### RE: JPL Groundwater Monitoring 1Q08 / G486090

Dear David:

Enclosed are the results of the samples submitted to our laboratory on 02/05/08. For your reference, these analyses have been assigned our service request number P0800179.

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 and reported herein. Your report contains 25 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager



Client: Battelle

CAS Project No: P0800179

Project: JPL Groundwater Monitoring 1Q08 / G486090

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## CASE NARRATIVE

The sample(s) were received intact under chain of custody on 02/05/08 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample(s) at the time of sample receipt.

### Hexavalent Chromium by EPA Method 7196A

No anomalies were encountered during this analysis.

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*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08/G486090

Service Request: P0800179

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800179-001	MW-4-3	02/05/08	07:42
P0800179-002	MW-4-2	02/05/08	08:18
P0800179-003	MW-4-1	02/05/08	08:53
P0800179-004	DUPE-2-1Q08	02/05/08	00:00
P0800179-005	EB-8-2/5/08	02/05/08	08:40
P0800179-006	MW-3-4	02/05/08	10:50
P0800179-007	MW-3-3	02/05/08	11:22
P0800179-008	MW-3-2	02/05/08	11:49

# Columbia Analytical Services, Inc.

## Acronyms

CA LUFT	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
CRDL	Contract Required Detection Limit
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified Method
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> , 19th Ed., 1995.
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.
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)
VOC	Volatile Organic Compound(s)

## Qualifiers

U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
J	The result is an estimated concentration that is less than the MRL (PQL), but greater than or equal to the MDL.
B	Analyte detected in the method blank above MRL (PQL).
E	Estimated; result based on response which exceeded the instrument calibration range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
D	The reported result is from a dilution.
X	See case narrative.

# 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. PO800179  
 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 1908 Project Number 6486090		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		P.O. # / Billing Information		Preservative Code		Remarks					
DAVID CONNER Phone 619-726-7311 Fax		# 214319 ATTN: GERALD TOMPKINS 505 KINLE AVE. COLUMBUS, OH 43201		(9612)		Duplicate Equip. BLANK					
Email Address for Result Reporting		Sampler (Print & Sign)		Date Collected		Time Collected		Matrix		Number of Containers	
Client Sample ID MW-4-3 MW-4-2 MW-4-1 DUPE-2-1908 EB-8-2-15/08		Laboratory ID Number 1 2 3 4 5		Date Collected 2/5/08 1 1 1 1		Time Collected 742 818 853 — 840		Matrix W 1 1 1 1		Number of Containers 1 1 1 1 1	

**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 POLY J required Yes/No \_\_\_\_\_  
 EDD required Yes/No \_\_\_\_\_  
 Type: \_\_\_\_\_

Relinquished by (Signature) \_\_\_\_\_ Date: 2/5/08 Time: 12:37  
 Relinquished by (Signature) \_\_\_\_\_ Date: 2/5/08 Time: 13:20  
 Relinquished by (Signature) \_\_\_\_\_ Date: 2/5/08 Time: 13:20

Received by (Signature) \_\_\_\_\_ Date: 2/5/08 Time: 12:37  
 Received by (Signature) \_\_\_\_\_ Date: 2/5/08 Time: 13:20  
 Received by (Signature) \_\_\_\_\_ Date: 2/5/08 Time: 13:20

Project Requirements (MRLs, QAPP) \_\_\_\_\_  
 Cooler/Blank/Ice/No Ice \_\_\_\_\_  
 Temperature \_\_\_\_\_ °C



# Columbia Analytical Services, Inc.

## Chain of Custody Report

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800179

<b>Bottle ID</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
P0800179-001.01	02/05/2008	1337	SMO / LKUKITA	
	02/05/2008	1411	In Lab / DCASTILLO	
	02/05/2008	1620	P-37 / DCASTILLO	
P0800179-002.01	02/05/2008	1337	SMO / LKUKITA	
	02/05/2008	1411	In Lab / DCASTILLO	
	02/05/2008	1620	P-37 / DCASTILLO	
P0800179-003.01	02/05/2008	1337	SMO / LKUKITA	
	02/05/2008	1412	In Lab / DCASTILLO	
	02/05/2008	1620	P-37 / DCASTILLO	
P0800179-004.01	02/05/2008	1337	SMO / LKUKITA	
	02/05/2008	1411	In Lab / DCASTILLO	
	02/05/2008	1620	P-37 / DCASTILLO	
P0800179-005.01	02/05/2008	1337	SMO / LKUKITA	
	02/05/2008	1412	In Lab / DCASTILLO	
	02/05/2008	1621	P-37 / DCASTILLO	
P0800179-006.01	02/05/2008	1337	SMO / LKUKITA	
	02/05/2008	1411	In Lab / DCASTILLO	
	02/05/2008	1620	P-37 / DCASTILLO	
P0800179-007.01	02/05/2008	1337	SMO / LKUKITA	
	02/05/2008	1412	In Lab / DCASTILLO	
	02/05/2008	1621	P-37 / DCASTILLO	
P0800179-008.01	02/05/2008	1337	SMO / LKUKITA	
	02/05/2008	1412	In Lab / DCASTILLO	
	02/05/2008	1621	P-37 / DCASTILLO	

**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08 / G486090  
Sample(s) received on: 2/5/08

Work order: P0800179  
Date opened: 2/5/08 by: LKUKITA

*Note:* This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |  | Yes                                 | No                                  | N/A                                 |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2 Container(s) <b>supplied by CAS</b> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3 Did <b>sample containers</b> arrive in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4 Were <b>chain-of-custody</b> papers used and filled out?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5 Did <b>sample container labels</b> and/or tags agree with custody papers?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6 Was <b>sample volume</b> received adequate for analysis?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7 Are samples within specified holding times?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Cooler Temperature _____ °C    Blank Temperature <u>3</u> °C   |                                     |                                     |                                     |
| 9 Was a <b>trip blank</b> received?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Trip blank supplied by CAS: Serial # _____ -TB _____   |                                     |                                     |                                     |
| 10 Were <b>custody seals</b> on outside of cooler/Box?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12 <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Do they contain moisture?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0800179-001.01	125mL Plastic NP					
P0800179-002.01	125mL Plastic NP					
P0800179-003.01	125mL Plastic NP					
P0800179-004.01	125mL Plastic NP					
P0800179-005.01	125mL Plastic NP					
P0800179-006.01	125mL Plastic NP					
P0800179-007.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12)

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)





**DIVIDER SHEET**

**ANALYTICAL DATA**  
**FOR**

**Hexavalent Chromium**

---

**ANALYSIS**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

Client : Battelle  
 Project Name : JPL Groundwater Monitoring 1Q08  
 Project Number : G486090  
 Sample Matrix : WATER

Service Request : P0800179  
 Date Collected : 02/05/08  
 Date Received : 02/05/08

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-4-3	P0800179-001	0.010	0.004	1	NA	02/05/08 15:30	0.004	J
MW-4-2	P0800179-002	0.010	0.004	1	NA	02/05/08 15:30	ND	
MW-4-1	P0800179-003	0.010	0.004	1	NA	02/05/08 15:30	ND	
DUPE-2-1Q08	P0800179-004	0.010	0.004	1	NA	02/05/08 15:30	ND	
EB-8-2/5/08	P0800179-005	0.010	0.004	1	NA	02/05/08 15:30	ND	
MW-3-4	P0800179-006	0.010	0.004	1	NA	02/05/08 15:30	ND	
MW-3-3	P0800179-007	0.010	0.004	1	NA	02/05/08 15:30	ND	
MW-3-2	P0800179-008	0.010	0.004	1	NA	02/05/08 15:30	ND	
Method Blank	P0800179-MB	0.010	0.004	1	NA	02/05/08 15:30	ND	

J Estimated concentration. The result is less than the PQL but greater than the MDL.

Approved By



Date :



## LABORATORY REPORT

February 14, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

### RE: JPL Groundwater Monitoring 1Q08 / G486090

Dear David:

Enclosed are the results of the sample(s) submitted to our laboratory on 02/06/08. For your reference, these analyses have been assigned our service request number P0800203.

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 and reported herein. Your report contains 26 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager

Client: Battelle CAS Project No: P0800203  
Project: JPL Groundwater Monitoring 1Q08 / G486090

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## CASE NARRATIVE

The sample(s) were received intact under chain of custody on 02/06/08 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample(s) at the time of sample receipt.

### Hexavalent Chromium by EPA Method 7196A

No anomalies were encountered during this analysis.

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*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08/G486090

Service Request: P0800203

### SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800203-001	MW-25-5	02/06/08	07:56
P0800203-002	MW-25-4	02/06/08	08:32
P0800203-003	MW-25-3	02/06/08	09:01
P0800203-004	MW-25-2	02/06/08	09:31
P0800203-005	MW-25-1	02/06/08	10:26
P0800203-006	DUPE-3-1Q08	02/06/08	00:00
P0800203-007	EB-9-2/6/08	02/06/08	10:10
P0800203-008	MW-26-2	02/06/08	11:48
P0800203-009	MW-26-1	02/06/08	12:16

# Columbia Analytical Services, Inc.

## Acronyms

CA LUFT	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
CRDL	Contract Required Detection Limit
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified Method
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> , 19th Ed., 1995.
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.
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)
VOC	Volatile Organic Compound(s)

## Qualifiers

U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
J	The result is an estimated concentration that is less than the MRL (PQL), but greater than or equal to the MDL.
B	Analyte detected in the method blank above MRL (PQL).
E	Estimated; result based on response which exceeded the instrument calibration range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
D	The reported result is from a dilution.
X	See case narrative.

# 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

<b>Company Name &amp; Address (Reporting Information)</b> BATELLE 3990 OLD TOWN AVE, C-205 SAN DIEGO, CA 92110		<b>Project Name</b> SPL GW MON. 1008		<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		<b>CAS Project No.</b> 2080203	
<b>Project Manager</b> DWID CONNER		<b>Project Number</b> 6486090		<b>Analysis Method and/or Analytes</b>		<b>CAS Contact:</b>	
<b>Phone</b> 619-726-7311		<b>Fax</b>		Volatile Organics G/MS <input type="checkbox"/> 624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>		Preservative Code	
<b>Email Address for Result Reporting</b>		<b>Sampler (Print &amp; Sign)</b>		TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)		0	
<b>Client Sample ID</b> MW-25-5		<b>Laboratory ID Number</b> 1		TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)		1	
MW-25-4		2		TPH FC <input type="checkbox"/> 8015M (Subcontracted)		2	
MW-25-3		3		Semi-Volatile Organics G/MS <input type="checkbox"/> 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		3	
MW-25-2		4		TPH Gas 8015B <input type="checkbox"/>		4	
MW-25-1		5		BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/>		5	
DUPE-3-1008		6		Volatile Organics G/MS <input type="checkbox"/> 624 <input type="checkbox"/> 8260B <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH Gas <input type="checkbox"/>		6	
EB-9-2/6/08		7		TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)		7	
(Blank)		(Blank)		TPH Diesel Low Level 8015B <input type="checkbox"/> (Subcontracted)		(Blank)	
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(Blank)		(Blank)		TPH Diesel 8015B <input type="checkbox"/> (Subcontracted)		(Blank)	
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(Blank)		(Blank)		TPH FC <input type="checkbox"/> 8015M (Subcontracted)		(Blank)	
(Blank)		(Blank)		Semi-Volatile Organics G/MS <input type="checkbox"/> 625 <input type="checkbox"/> 8270C <input type="checkbox"/> (Subcontracted)		(Blank)	
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(Blank)		(Blank)		TPH Gas 8015B <input type="checkbox"/>		(Blank)	
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(Blank)		(Blank)		BTEX 8021B <input type="checkbox"/> MTBE 8021B			





# Columbia Analytical Services, Inc.

## Chain of Custody Report

Client: Battelle  
 Project: JPL Groundwater Monitoring 1Q08/G486090

Service Request: P0800203

Bottle ID	Date	Time	Sample Location / User	Disposed On
P0800203-001.01	02/06/2008	1430	SMO / SSTAPLES	
	02/06/2008	1452	In Lab / DCASTILLO	
	02/06/2008	1647	P-37 / DCASTILLO	
P0800203-002.01	02/06/2008	1430	SMO / SSTAPLES	
	02/06/2008	1452	In Lab / DCASTILLO	
	02/06/2008	1647	P-37 / DCASTILLO	
P0800203-003.01	02/06/2008	1430	SMO / SSTAPLES	
	02/06/2008	1452	In Lab / DCASTILLO	
	02/06/2008	1647	P-37 / DCASTILLO	
P0800203-004.01	02/06/2008	1430	SMO / SSTAPLES	
	02/06/2008	1452	In Lab / DCASTILLO	
	02/06/2008	1647	P-37 / DCASTILLO	
P0800203-004.02	02/06/2008	1436	SMO / SSTAPLES	
	02/06/2008	1452	In Lab / DCASTILLO	
	02/06/2008	1647	P-37 / DCASTILLO	
P0800203-005.01	02/06/2008	1430	SMO / SSTAPLES	
	02/06/2008	1452	In Lab / DCASTILLO	
	02/06/2008	1647	P-37 / DCASTILLO	
P0800203-006.01	02/06/2008	1430	SMO / SSTAPLES	
	02/06/2008	1452	In Lab / DCASTILLO	
	02/06/2008	1647	P-37 / DCASTILLO	
P0800203-007.01	02/06/2008	1430	SMO / SSTAPLES	
	02/06/2008	1453	In Lab / DCASTILLO	
	02/06/2008	1647	P-37 / DCASTILLO	
P0800203-008.01	02/06/2008	1430	SMO / SSTAPLES	
	02/06/2008	1452	In Lab / DCASTILLO	
	02/06/2008	1647	P-37 / DCASTILLO	
P0800203-009.01	02/06/2008	1430	SMO / SSTAPLES	
	02/06/2008	1453	In Lab / DCASTILLO	
	02/06/2008	1647	P-37 / DCASTILLO	

**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle

Work order: P0800203

Project: JPL Groundwater Monitoring 1Q08 / G486090

Sample(s) received on: 2/6/08

Date opened: 2/6/08

by: SSTAPLES

*Note:* This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |    |   | <u>Yes</u>                          | <u>No</u>                           | <u>N/A</u>                          |
|----|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1  | Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2  | Container(s) <b>supplied by CAS</b> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3  | Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4  | Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5  | Did <b>sample container labels</b> and/or tags agree with custody papers?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6  | Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7  | Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8  | Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?<br>Cooler Temperature _____ °C    Blank Temperature <u>3</u> °C | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 9  | Was a <b>trip blank</b> received?<br>Trip blank supplied by CAS: Serial # _____ -TB _____   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10 | Were <b>custody seals</b> on outside of cooler/Box?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|    | Location of seal(s)? _____ Sealing Lid?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Were signature and date included?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Were seals intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Were custody seals on outside of sample container?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|    | Location of seal(s)? _____ Sealing Lid?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 | Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
|    | Is there a client indication that the submitted samples are <b>pH</b> preserved?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12 | <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Do they contain moisture?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 | <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0800203-001.01	125mL Plastic NP					
P0800203-002.01	125mL Plastic NP					
P0800203-003.01	125mL Plastic NP					
P0800203-004.01	125mL Plastic NP					
P0800203-004.02	125mL Plastic NP					
P0800203-005.01	125mL Plastic NP					
P0800203-006.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

MS/MSD on -004 per client request. \_\_\_\_\_

\*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12)  
P0800203\_Battelle\_JPL Groundwater Monitoring 1Q08\_G486090 - Page 1 of 2

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



**DIVIDER SHEET**

**ANALYTICAL DATA**  
**FOR**

**Hexavalent Chromium**

---

**ANALYSIS**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client :** Battelle  
**Project Name :** JPL Groundwater Monitoring 1Q08  
**Project Number :** G486090  
**Sample Matrix :** WATER

**Service Request :** P0800203  
**Date Collected :** 02/06/08  
**Date Received :** 02/06/08

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-25-5	P0800203-001	0.010	0.004	1	NA	02/06/08 16:00	ND	
MW-25-4	P0800203-002	0.010	0.004	1	NA	02/06/08 16:00	ND	
MW-25-3	P0800203-003	0.010	0.004	1	NA	02/06/08 16:00	ND	
MW-25-2	P0800203-004	0.010	0.004	1	NA	02/06/08 16:00	ND	
MW-25-1	P0800203-005	0.010	0.004	1	NA	02/06/08 16:00	ND	
DUPE-3-1Q08	P0800203-006	0.010	0.004	1	NA	02/06/08 16:00	ND	
EB-9-2/6/08	P0800203-007	0.010	0.004	1	NA	02/06/08 16:00	ND	
MW-26-2	P0800203-008	0.010	0.004	1	NA	02/06/08 16:00	ND	
MW-26-1	P0800203-009	0.010	0.004	1	NA	02/06/08 16:00	ND	
Method Blank	P0800203-MB	0.010	0.004	1	NA	02/06/08 16:00	ND	

Approved By



Date :

2/14/08

**CAS SR #P0800220**

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## LABORATORY REPORT

February 14, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

### RE: JPL Groundwater Monitoring 1Q08 / G486090

Dear David:

Enclosed are the results of the sample(s) submitted to our laboratory on 02/07/08. For your reference, these analyses have been assigned our service request number P0800220.

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 and reported herein. Your report contains 23 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08 / G486090

CAS Project No: P0800220

---

## CASE NARRATIVE

The sample(s) were received intact under chain of custody on 02/07/08 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample(s) at the time of sample receipt.

### Hexavalent Chromium by EPA Method 7196A

No anomalies were encountered during this analysis.

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*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*



**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800220

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800220-001	MW-24-4	02/07/08	07:53
P0800220-002	MW-24-3	02/07/08	08:21
P0800220-003	MW-24-2	02/07/08	08:54
P0800220-004	MW-24-1	02/07/08	09:50
P0800220-005	DUPE-4-1Q08	02/07/08	00:00
P0800220-006	DUPE-5-1Q08	02/07/08	00:00
P0800220-007	EB-10-2/7/08	02/07/08	09:34

# Columbia Analytical Services, Inc.

## Acronyms

CA LUFT	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
CRDL	Contract Required Detection Limit
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified Method
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> ; 19th Ed., 1995.
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.
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)
VOC	Volatile Organic Compound(s)

## Qualifiers

U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
J	The result is an estimated concentration that is less than the MRL (PQL), but greater than or equal to the MDL.
B	Analyte detected in the method blank above MRL (PQL).
E	Estimated; result based on response which exceeded the instrument calibration range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
D	The reported result is from a dilution.
X	See case narrative.



2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

<b>Company Name &amp; Address (Reporting Information)</b> BATTLE 3990 OLD TOWN AVE. C-205 SAN DIEGO, CA 92110		<b>Project Name</b> SPL GW MON 1808		<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		<b>CAS Project No.</b> 1808	
<b>Project Manager</b> DAVID CONNER		<b>Project Number</b> 6486090		<b>Analysis Method and/or Analytes</b>		<b>CAS Contact:</b>	
<b>Phone</b> 619-726-7311		<b>Fax</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>Email Address for Result Reporting</b>		<b>Sampler (Print &amp; Sign)</b>		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) BTEX 8021B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/>	
<b>Client Sample ID</b>		<b>Laboratory ID Number</b>		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)		<b>Remarks</b>	
MW-24-4		1		2/2/08 753		w	
MW-24-3		2		821		1	
MW-24-2		3		854		1	
MW-24-1		4		950		1	
DUPE - 4-1808		5		-		1	
DUPE - 5-1808		6		-		1	
EB-10-2/7/08		7		934		1	

<b>Report Tier Levels - please select</b> Tier I - (Results/Default if not specified) _____ Tier II - (Results + QC) _____ Tier III - (Data Validation Package) 10% Surcharge _____ Tier V - (client specified) _____		<b>MIRL required Yes (No) (MPL PQL / J required Yes / No)</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		<b>EDD required Yes/No</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Relinquished by: (Signature)</b> [Signature]		<b>Received by: (Signature)</b> [Signature]		<b>Date:</b> 2/2/08	
<b>Relinquished by: (Signature)</b> [Signature]		<b>Received by: (Signature)</b> [Signature]		<b>Date:</b> 2/2/08	
<b>Relinquished by: (Signature)</b> [Signature]		<b>Received by: (Signature)</b> [Signature]		<b>Date:</b> 2/2/08	

Project Requirements (MRLs, QAPP)  
 Cooler / Blank / Ice No Ice  
 Temperature 3 °C

# Columbia Analytical Services, Inc.

## Chain of Custody Report

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800220

<b>Bottle ID</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
P0800220-001.01	02/07/2008	1312	SMO / SSTAPLES	
	02/07/2008	1325	In Lab / DCASTILLO	
	02/07/2008	1554	P-37 / DCASTILLO	
P0800220-002.01	02/07/2008	1312	SMO / SSTAPLES	
	02/07/2008	1324	In Lab / DCASTILLO	
	02/07/2008	1554	P-37 / DCASTILLO	
P0800220-003.01	02/07/2008	1312	SMO / SSTAPLES	
	02/07/2008	1324	In Lab / DCASTILLO	
	02/07/2008	1554	P-37 / DCASTILLO	
P0800220-004.01	02/07/2008	1312	SMO / SSTAPLES	
	02/07/2008	1324	In Lab / DCASTILLO	
	02/07/2008	1554	P-37 / DCASTILLO	
P0800220-005.01	02/07/2008	1312	SMO / SSTAPLES	
	02/07/2008	1324	In Lab / DCASTILLO	
	02/07/2008	1554	P-37 / DCASTILLO	
P0800220-006.01	02/07/2008	1312	SMO / SSTAPLES	
	02/07/2008	1324	In Lab / DCASTILLO	
	02/07/2008	1554	P-37 / DCASTILLO	
P0800220-007.01	02/07/2008	1312	SMO / SSTAPLES	
	02/07/2008	1324	In Lab / DCASTILLO	
	02/07/2008	1554	P-37 / DCASTILLO	

**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle

Work order: P0800220

Project: JPL Groundwater Monitoring 1Q08 / G486090

Sample(s) received on: 2/7/08

Date opened: 2/7/08

by: SSTAPLES

*Note:* This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |    |  | <u>Yes</u>                          | <u>No</u>                           | <u>N/A</u>                          |
|----|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1  | Were <b>sample containers</b> properly marked with client sample ID?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2  | Container(s) <b>supplied by CAS</b> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3  | Did <b>sample containers</b> arrive in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4  | Were <b>chain-of-custody</b> papers used and filled out?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5  | Did <b>sample container labels</b> and/or tags agree with custody papers?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6  | Was <b>sample volume</b> received adequate for analysis?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7  | Are samples within specified holding times?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8  | Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?<br>Cooler Temperature _____ °C    Blank Temperature <u>3</u> °C  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 9  | Was a <b>trip blank</b> received?<br>Trip blank supplied by CAS: Serial # _____ -TB _____  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10 | Were <b>custody seals</b> on outside of cooler/Box?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|    | Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10 | Were custody seals on outside of sample container?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|    | Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 | Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information?<br>Is there a client indication that the submitted samples are <b>pH</b> preserved?<br>Were <b>VOA vials</b> checked for presence/absence of air bubbles?<br>Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 12 | <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Do they contain moisture?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 | <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Are dual bed badges separated and individually capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0800220-001.01	125mL Plastic NP					
P0800220-002.01	125mL Plastic NP					
P0800220-003.01	125mL Plastic NP					
P0800220-004.01	125mL Plastic NP					
P0800220-005.01	125mL Plastic NP					
P0800220-006.01	125mL Plastic NP					
P0800220-007.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

\*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12); Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12)      RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

**DIVIDER SHEET**

**ANALYTICAL DATA**  
**FOR**

**Hexavalent Chromium**

---

**ANALYSIS**

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

Client : Battelle  
 Project Name : JPL Groundwater Monitoring 1Q08  
 Project Number : G486090  
 Sample Matrix : WATER

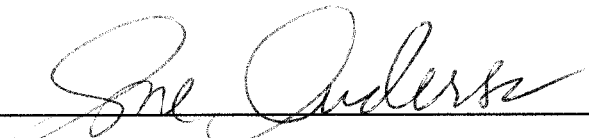
Service Request : P0800220  
 Date Collected : 02/07/08  
 Date Received : 02/07/08

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	P0800220-001	0.010	0.004	1	NA	02/07/08 15:00	ND	
MW-24-3	P0800220-002	0.010	0.004	1	NA	02/07/08 15:00	ND	
MW-24-2	P0800220-003	0.010	0.004	1	NA	02/07/08 15:00	ND	
MW-24-1	P0800220-004	0.010	0.004	1	NA	02/07/08 15:00	ND	
DUPE-4-1Q08	P0800220-005	0.010	0.004	1	NA	02/07/08 15:00	ND	
DUPE-5-1Q08	P0800220-006	0.010	0.004	1	NA	02/07/08 15:00	ND	
EB-10-2/7/08	P0800220-007	0.010	0.004	1	NA	02/07/08 15:00	ND	
Method Blank	P0800220-MB	0.010	0.004	1	NA	02/07/08 15:00	ND	

Approved By 

Date : 2/14/08

**CAS SR #P0800239**

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## LABORATORY REPORT

February 14, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

### RE: JPL Groundwater Monitoring 1Q08 / G486090

Dear David:

Enclosed are the results of the sample(s) submitted to our laboratory on February 8, 2008. For your reference, these analyses have been assigned our service request number P0800239.

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 and reported herein. Your report contains 23 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager

Client: Battelle CAS Project No: P0800239  
Project: JPL Groundwater Monitoring 1Q08 / G486090

---

### CASE NARRATIVE

The sample(s) were received intact under chain of custody on February 8, 2008 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample(s) at the time of sample receipt.

#### **Hexavalent Chromium by EPA Method 7196A**

No anomalies were encountered during this analysis.

---

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800239

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800239-001	MW-23-4	02/08/08	07:37
P0800239-002	MW-23-3	02/08/08	08:01
P0800239-003	MW-23-2	02/08/08	08:31
P0800239-004	MW-23-1	02/08/08	09:09
P0800239-005	EB-11-2/8/08	02/08/08	08:49
P0800239-006	SB-1-1Q08	02/08/08	08:56

# Columbia Analytical Services, Inc.

## Acronyms

CA LUFT	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
CRDL	Contract Required Detection Limit
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified Method
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> , 19th Ed., 1995.
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.
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)
VOC	Volatile Organic Compound(s)

## Qualifiers

U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
J	The result is an estimated concentration that is less than the MRL (PQL), but greater than or equal to the MDL.
B	Analyte detected in the method blank above MRL (PQL).
E	Estimated; result based on response which exceeded the instrument calibration range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
D	The reported result is from a dilution.
X	See case narrative.

# 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. 202000239  
 CAS Contact:

Company Name & Address (Reporting Information)		Project Name		Analysis Method and/or Analytes		Preservative Code		Preservative Key					
BATTELLE 3990 OLD TOWN AVE. C-205 SAN DIEGO, CA 92110		SPL GAW MON 1808 Project Number G 486090		TPH Gas 8015B <input type="checkbox"/> MTBE 8021B <input type="checkbox"/> 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)		0 1 HCL 2 HNO3 3 H2SO4 4 NaOH 5 Zn Acetate 6 Asc Acid 7 Other		Remarks					
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	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"/>	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-23-4	1	2/8/08	737	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
MW-23-3	2		801		1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
MW-23-2	3		831		1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
MW-23-1	4		909		2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		MS/MSD
EB-11-2/8/08	5		849		1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		EQUIP. BLANK
SB-1-1/08	6		856		1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		SOURCE 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 / I required Yes/No \_\_\_\_\_  
 EDD required Yes/No \_\_\_\_\_  
 Type: Geotracker

Relinquished by: (Signature) \_\_\_\_\_ Date: 2/8/08 Time: 10:54  
 Relinquished by: (Signature) \_\_\_\_\_ Date: 2/10/08 Time: 11:55  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Project Requirements (MRLs, QAPP)  
 Cooler Blank / Ice / No Ice \_\_\_\_\_  
 Temperature 4 °C

# Columbia Analytical Services, Inc.

## Chain of Custody Report

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08/G486090

Service Request: P0800239

Bottle ID	Date	Time	Sample Location / User	Disposed On
P0800239-001.01	02/08/2008	1200	SMO / LKUKITA	
	02/08/2008	1744	P-37 / DCASTILLO	
P0800239-002.01	02/08/2008	1200	SMO / LKUKITA	
	02/08/2008	1744	P-37 / DCASTILLO	
P0800239-003.01	02/08/2008	1200	SMO / LKUKITA	
	02/08/2008	1744	P-37 / DCASTILLO	
P0800239-004.01	02/08/2008	1200	SMO / LKUKITA	
	02/08/2008	1744	P-37 / DCASTILLO	
P0800239-004.02	02/08/2008	1201	SMO / LKUKITA	
	02/08/2008	1744	P-37 / DCASTILLO	
P0800239-005.01	02/08/2008	1200	SMO / LKUKITA	
	02/08/2008	1744	P-37 / DCASTILLO	
P0800239-006.01	02/08/2008	1200	SMO / LKUKITA	
	02/08/2008	1744	P-37 / DCASTILLO	

**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle

Work order: P0800239

Project: JPL Groundwater Monitoring 1Q08 / G486090

Sample(s) received on: 2/8/08

Date opened: 2/8/08

by: LKUKITA

*Note:* This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |  | Yes                                 | No                                  | N/A                                 |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2 Container(s) <b>supplied by CAS</b> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3 Did <b>sample containers</b> arrive in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4 Were <b>chain-of-custody</b> papers used and filled out?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5 Did <b>sample container labels</b> and/or tags agree with custody papers?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6 Was <b>sample volume</b> received adequate for analysis?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7 Are samples within specified holding times?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Cooler Temperature _____ °C    Blank Temperature <u>4</u> °C   |                                     |                                     |                                     |
| 9 Was a <b>trip blank</b> received?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Trip blank supplied by CAS: Serial # _____ -TB _____   |                                     |                                     |                                     |
| 10 Were <b>custody seals</b> on outside of cooler/Box?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12 <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Do they contain moisture?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0800239-001.01	125mL Plastic NP					
P0800239-002.01	125mL Plastic NP					
P0800239-003.01	125mL Plastic NP					
P0800239-004.01	125mL Plastic NP					
P0800239-004.02	125mL Plastic NP					
P0800239-005.01	125mL Plastic NP					
P0800239-006.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

\*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12)

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

**DIVIDER SHEET**

**ANALYTICAL DATA**  
**FOR**

**Hexavalent Chromium**

---

**ANALYSIS**



Analytical Report

Client : Battelle  
 Project Name : JPL Groundwater Monitoring 1Q08  
 Project Number : G486090  
 Sample Matrix : WATER

Service Request : P0800239  
 Date Collected : 02/08/08  
 Date Received : 02/08/08

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-23-4	P0800239-001	0.010	0.004	1	NA	02/08/08 17:10	ND	
MW-23-3	P0800239-002	0.010	0.004	1	NA	02/08/08 17:10	0.004	J
MW-23-2	P0800239-003	0.010	0.004	1	NA	02/08/08 17:10	ND	
MW-23-1	P0800239-004	0.010	0.004	1	NA	02/08/08 17:10	ND	
EB-11-2/8/08	P0800239-005	0.010	0.004	1	NA	02/08/08 17:10	ND	
SB-1-1Q08	P0800239-006	0.010	0.004	1	NA	02/08/08 17:10	ND	
Method Blank	P0800239-MB	0.010	0.004	1	NA	02/08/08 17:10	ND	

J Estimated concentration. The result is less than the PQL but greater than the MDL.

Approved By



Date :

2/14/08

**CAS SR #P0800256**

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## LABORATORY REPORT

February 14, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

### RE: JPL Groundwater Monitoring 1Q08 / G486090

Dear David:

Enclosed are the results of the sample(s) submitted to our laboratory on February 11, 2008. For your reference, these analyses have been assigned our service request number P0800256.

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 and reported herein. Your report contains 23 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08 / G486090

CAS Project No: P0800256

---

### CASE NARRATIVE

The sample(s) were received intact under chain of custody on February 11, 2008 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample(s) at the time of sample receipt.

#### Hexavalent Chromium by EPA Method 7196A

No anomalies were encountered during this analysis.

---

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800256

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800256-001	MW-5	02/11/08	08:24
P0800256-002	MW-6	02/11/08	11:25

# Columbia Analytical Services, Inc.

## Acronyms

CA LUFT	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAS Number	Chemical Abstract Service Registry Number
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CRDL	Contract Required Detection Limit
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified Method
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> , 19th Ed., 1995.
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.
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)
VOC	Volatile Organic Compound(s)

## Qualifiers

U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
J	The result is an estimated concentration that is less than the MRL (PQL), but greater than or equal to the MDL.
B	Analyte detected in the method blank above MRL (PQL).
E	Estimated; result based on response which exceeded the instrument calibration range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
D	The reported result is from a dilution.
X	See case narrative.



# Columbia Analytical Services, Inc.

## Chain of Custody Report

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08/G486090

Service Request: P0800256

<b>Bottle ID</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
P0800256-001.01	02/11/2008	1406	SMO / LKUKITA	
	02/11/2008	1424	In Lab / DCASTILLO	
	02/11/2008	1552	P-37 / DCASTILLO	
P0800256-002.01	02/11/2008	1406	SMO / LKUKITA	
	02/11/2008	1424	In Lab / DCASTILLO	
	02/11/2008	1552	P-37 / DCASTILLO	



**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle

Work order: P0800256

Project: JPL Groundwater Monitoring 1Q08 / G486090

Sample(s) received on: 2/11/08

Date opened: 2/11/08

by: LKUKITA

*Note:* This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |  | Yes                                 | No                                  | N/A                                 |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2 Container(s) <b>supplied by CAS</b> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3 Did <b>sample containers</b> arrive in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4 Were <b>chain-of-custody</b> papers used and filled out?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5 Did <b>sample container labels</b> and/or tags agree with custody papers?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6 Was <b>sample volume</b> received adequate for analysis?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7 Are samples within specified holding times?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Cooler Temperature _____ °C    Blank Temperature <u>3</u> °C   |                                     |                                     |                                     |
| 9 Was a <b>trip blank</b> received?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Trip blank supplied by CAS: Serial # _____ -TB _____   |                                     |                                     |                                     |
| 10 Were <b>custody seals</b> on outside of cooler/Box?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12 <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Do they contain moisture?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/ Absence)	Receipt / Preservation Comments
P0800256-001.01	125mL Plastic NP					
P0800256-002.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

\*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12)

**DIVIDER SHEET**

**ANALYTICAL DATA**  
**FOR**

**Hexavalent Chromium**

---

**ANALYSIS**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Battelle  
Project Name : JPL Groundwater Monitoring 1Q08  
Project Number : G486090  
Sample Matrix : WATER

Service Request : P0800256  
Date Collected : 02/11/08  
Date Received : 02/11/08

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-5	P0800256-001	0.010	0.004	1	NA	02/11/08 14:50	0.005	J
MW-6	P0800256-002	0.010	0.004	1	NA	02/11/08 14:50	0.006	J
Method Blank	P0800256-MB	0.010	0.004	1	NA	02/11/08 14:50	ND	

J Estimated concentration. The result is less than the PQL but greater than the MDL.

Approved By  Date : 2/14/08



**CAS SR #P0800271**

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## LABORATORY REPORT

February 14, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

### RE: JPL Groundwater Monitoring 1Q08 / G486090

Dear David:

Enclosed are the results of the sample(s) submitted to our laboratory on February 12, 2008. For your reference, these analyses have been assigned our service request number P0800271.

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 and reported herein. Your report contains 23 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager

Client: Battelle CAS Project No: P0800271  
Project: JPL Groundwater Monitoring 1Q08 / G486090

---

### CASE NARRATIVE

The sample(s) were received intact under chain of custody on February 12, 2008 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample(s) at the time of sample receipt.

#### **Hexavalent Chromium by EPA Method 7196A**

No anomalies were encountered during this analysis.

---

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800271

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800271-001	MW-7	02/12/08	09:06
P0800271-002	MW-16	02/12/08	11:28
P0800271-003	DUPE-6-1Q08	02/12/08	00:00

# Columbia Analytical Services, Inc.

## Acronyms

CA LUFT	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
CRDL	Contract Required Detection Limit
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified Method
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> , 19th Ed., 1995.
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.
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)
VOC	Volatile Organic Compound(s)

## Qualifiers

U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
J	The result is an estimated concentration that is less than the MRL (PQL), but greater than or equal to the MDL.
B	Analyte detected in the method blank above MRL (PQL).
E	Estimated; result based on response which exceeded the instrument calibration range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
D	The reported result is from a dilution.
X	See case narrative.





2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

CAS Project No. PO800271  
 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 Key		
BATTELLE 3990 OLD TOWN AVE C-205 SAN DIEGO, CA 92110		SPL Gen Man 1008		Preservative Code										0 None 1 HCL 2 HNO3 3 H2SO4 4 NaOH 5 Zn Acetate 6 Asc Acid 7 Other		
Project Manager DAVID COLLIER Phone 619-726-7311 Fax		Project Number G488090		Preservative Code										Remarks		
P.O. # / Billing Information # 214319 ATTN: GERALD TOMPLINS 505 KIMLA AVE. COLUMBUS, OH 43201		Sampler (Print & Sign)		Preservative Code												
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Matrix	Number of Containers	Volatle 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 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)					Remarks
MW-7	1	02/12/08	0906	W	1						X					
MW-16	2	1/12/8			1						X					
DUPE-6-1008	3				1						X					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 / PQL / J required Yes/No \_\_\_\_\_  
 EDD required Yes/No \_\_\_\_\_  
 Type: Refraction

Relinquished by: (Signature) \_\_\_\_\_ Date: 02/12/08 Time: 1230  
 Relinquished by: (Signature) \_\_\_\_\_ Date: 02/12/08 Time: 1545  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date: 2/12/08 Time: 1345  
 Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Project Requirements (MRLs, QAPP)  
 Cooler / Blank Ice / No Ice \_\_\_\_\_  
 Temperature 3 °C

# Columbia Analytical Services, Inc.

## Chain of Custody Report

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800271

<b>Bottle ID</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
P0800271-001.01	02/12/2008	1355	SMO / LKUKITA	
	02/12/2008	1423	In Lab / DCASTILLO	
	02/12/2008	1808	P-37 / DCASTILLO	
P0800271-002.01	02/12/2008	1355	SMO / LKUKITA	
	02/12/2008	1424	In Lab / DCASTILLO	
	02/12/2008	1808	P-37 / DCASTILLO	
P0800271-003.01	02/12/2008	1355	SMO / LKUKITA	
	02/12/2008	1424	In Lab / DCASTILLO	
	02/12/2008	1808	P-37 / DCASTILLO	

**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle

Work order: P0800271

Project: JPL Groundwater Monitoring 1Q08 / G486090

Sample(s) received on: 2/12/08

Date opened: 2/12/08

by: LKUKITA

*Note:* This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |  | Yes                                 | No                                  | N/A                                 |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2 Container(s) <b>supplied by CAS</b> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3 Did <b>sample containers</b> arrive in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4 Were <b>chain-of-custody</b> papers used and filled out?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5 Did <b>sample container labels</b> and/or tags agree with custody papers?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6 Was <b>sample volume</b> received adequate for analysis?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7 Are samples within specified holding times?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Cooler Temperature _____ °C    Blank Temperature <u>3</u> °C   |                                     |                                     |                                     |
| 9 Was a <b>trip blank</b> received?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Trip blank supplied by CAS: Serial # _____ -TB _____   |                                     |                                     |                                     |
| 10 Were <b>custody seals</b> on outside of cooler/Box?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12 <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Do they contain moisture?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0800271-001.01	125mL Plastic NP					
P0800271-002.01	125mL Plastic NP					
P0800271-003.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

\*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

**DIVIDER SHEET**

**ANALYTICAL DATA**  
**FOR**

**Hexavalent Chromium**

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**ANALYSIS**

Analytical Report

Client : Battelle  
 Project Name : JPL Groundwater Monitoring 1Q08  
 Project Number : G486090  
 Sample Matrix : WATER

Service Request : P0800271  
 Date Collected : 02/12/08  
 Date Received : 02/12/08

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-7	P0800271-001	0.010	0.004	1	NA	02/12/08 15:05	0.012	
MW-16	P0800271-002	0.010	0.004	1	NA	02/12/08 15:05	ND	
DUPE-6-1Q08	P0800271-003	0.010	0.004	1	NA	02/12/08 15:05	0.013	
Method Blank	P0800271-MB	0.010	0.004	1	NA	02/12/08 15:05	ND	

Approved By 

Date : 2/14/08

**CAS SR #P0800285**

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## LABORATORY REPORT

February 18, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

### RE: JPL Groundwater Monitoring 1Q08 / G486090

Dear David:

Enclosed are the results of the sample(s) submitted to our laboratory on February 13, 2008. For your reference, these analyses have been assigned our service request number P0800285.

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 and reported herein. Your report contains 23 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager

Client: Battelle

CAS Project No:

P0800285

Project: JPL Groundwater Monitoring 1Q08 / G486090

---

## CASE NARRATIVE

The sample(s) were received intact under chain of custody on February 13, 2008 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample(s) at the time of sample receipt.

### Hexavalent Chromium by EPA Method 7196A

No anomalies were encountered during this analysis.

---

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*



**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800285

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800285-001	MW-13	02/13/08	08:30
P0800285-002	MW-8	02/13/08	10:53
P0800285-003	DUPE-7-02/13/08	02/13/08	00:00

# Columbia Analytical Services, Inc.

## Acronyms

CA LUFT	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
CRDL	Contract Required Detection Limit
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified Method
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> , 19th Ed., 1995.
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.
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)
VOC	Volatile Organic Compound(s)

## Qualifiers

U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
J	The result is an estimated concentration that is less than the MRL (PQL), but greater than or equal to the MDL.
B	Analyte detected in the method blank above MRL (PQL).
E	Estimated; result based on response which exceeded the instrument calibration range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
D	The reported result is from a dilution.
X	See case narrative.



# Columbia Analytical Services, Inc.

## Chain of Custody Report

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800285

<b>Bottle ID</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
P0800285-001.01	02/13/2008	1330	SMO / SSTAPLES	
	02/13/2008	1349	In Lab / DCASTILLO	
	02/13/2008	1715	P-37 / DCASTILLO	
P0800285-002.01	02/13/2008	1330	SMO / SSTAPLES	
	02/13/2008	1349	In Lab / DCASTILLO	
	02/13/2008	1715	P-37 / DCASTILLO	
P0800285-003.01	02/13/2008	1330	SMO / SSTAPLES	
	02/13/2008	1349	In Lab / DCASTILLO	
	02/13/2008	1715	P-37 / DCASTILLO	

**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle

Work order: P0800285

Project: JPL Groundwater Monitoring 1Q08 / G486090

Sample(s) received on: 2/13/08

Date opened: 2/13/08

by: SSTAPLES

*Note:* This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |    |  | <u>Yes</u>                          | <u>No</u>                           | <u>N/A</u>                          |
|----|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1  | Were <b>sample containers</b> properly marked with client sample ID?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2  | Container(s) <b>supplied by CAS</b> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3  | Did <b>sample containers</b> arrive in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4  | Were <b>chain-of-custody</b> papers used and filled out?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5  | Did <b>sample container labels</b> and/or tags agree with custody papers?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6  | Was <b>sample volume</b> received adequate for analysis?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7  | Are samples within specified holding times?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8  | Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?<br>Cooler Temperature _____ °C    Blank Temperature <u>4</u> °C  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 9  | Was a <b>trip blank</b> received?<br>Trip blank supplied by CAS: Serial # _____ -TB _____  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10 | Were <b>custody seals</b> on outside of cooler/Box?<br>Location of seal(s)? _____ Sealing Lid? _____<br>Were signature and date included? _____<br>Were seals intact? _____  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|    | Were custody seals on outside of sample container?<br>Location of seal(s)? _____ Sealing Lid? _____<br>Were signature and date included? _____<br>Were seals intact? _____   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 11 | Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information?<br>Is there a client indication that the submitted samples are <b>pH</b> preserved?<br>Were <b>VOA vials</b> checked for presence/absence of air bubbles?<br>Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
|    |  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    |  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    |  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12 | <b>Tubes:</b> Are the tubes capped and intact?<br>Do they contain moisture?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    |  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 | <b>Badges:</b> Are the badges properly capped and intact?<br>Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    |  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH*	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0800285-001.01	125mL Plastic NP					
P0800285-002.01	125mL Plastic NP					
P0800285-003.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

\*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12)  
P0800285\_Battelle\_JPL Groundwater Monitoring 1Q08\_G486090 - Page 1 of 1

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

**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 1Q08  
Project Number : G486090  
Sample Matrix : WATER

Service Request : P0800285  
Date Collected : 02/13/08  
Date Received : 02/13/08


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-13	P0800285-001	0.010	0.004	1	NA	02/13/08 14:38	0.008	J
MW-8	P0800285-002	0.010	0.004	1	NA	02/13/08 14:38	0.005	J
DUPE-7-02/13/08	P0800285-003	0.010	0.004	1	NA	02/13/08 14:38	0.004	J
Method Blank	P0800285-MB	0.010	0.004	1	NA	02/13/08 14:38	ND	

J Estimated concentration. The result is less than the PQL but greater than the MDL.

Approved By  Date : 2/18/08 **9**

**CAS SR #P0800299**

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## LABORATORY REPORT

February 18, 2008

David Conner  
Battelle  
3990 Old Town Ave., Suite C-205  
San Diego, CA 92110

### RE: JPL Groundwater Monitoring 1Q08 / G486090

Dear David:

Enclosed are the results of the sample(s) submitted to our laboratory on February 14, 2008. For your reference, these analyses have been assigned our service request number P0800299.

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 and reported herein. Your report contains 24 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Sue Anderson  
Project Manager

Client: Battelle CAS Project No: P0800299  
Project: JPL Groundwater Monitoring 1Q08 / G486090

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## CASE NARRATIVE

The sample(s) were received intact under chain of custody on February 14, 2008 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample(s) at the time of sample receipt.

### Hexavalent Chromium by EPA Method 7196A

No anomalies were encountered during this analysis.

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*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.*

**Client:** Battelle  
**Project:** JPL Groundwater Monitoring 1Q08/G486090

**Service Request:** P0800299

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0800299-001	MW-10	02/14/08	08:17
P0800299-002	MW-15	02/14/08	09:39

# Columbia Analytical Services, Inc.

## Acronyms

CA LUFT	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
CRDL	Contract Required Detection Limit
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified Method
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> , 19th Ed., 1995.
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.
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLIC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)
VOC	Volatile Organic Compound(s)

## Qualifiers

U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
J	The result is an estimated concentration that is less than the MRL (PQL), but greater than or equal to the MDL.
B	Analyte detected in the method blank above MRL (PQL).
E	Estimated; result based on response which exceeded the instrument calibration range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
D	The reported result is from a dilution.
X	See case narrative.



# Columbia Analytical Services, Inc.

## Chain of Custody Report

Client: Battelle  
Project: JPL Groundwater Monitoring 1Q08/G486090

Service Request: P0800299

<b>Bottle ID</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
P0800299-001.01	02/14/2008	1219	SMO / LKUKITA	
	02/14/2008	1254	In Lab / DCASTILLO	
	02/14/2008	1407	P-37 / DCASTILLO	
P0800299-002.01	02/14/2008	1219	SMO / LKUKITA	
	02/14/2008	1254	In Lab / DCASTILLO	
	02/14/2008	1407	P-37 / DCASTILLO	

**Columbia Analytical Services, Inc.**  
**Sample Acceptance Check Form**

Client: Battelle

Work order: P0800299

Project: JPL Groundwater Monitoring 1Q08 / G486090

Sample(s) received on: 2/14/08

Date opened: 2/14/08

by: LKUKITA

*Note:* This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |  | Yes                                 | No                                  | N/A                                 |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2 Container(s) <b>supplied by CAS</b> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3 Did <b>sample containers</b> arrive in good condition?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4 Were <b>chain-of-custody</b> papers used and filled out?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5 Did <b>sample container labels</b> and/or tags agree with custody papers?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6 Was <b>sample volume</b> received adequate for analysis?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7 Are samples within specified holding times?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Cooler Temperature _____ °C    Blank Temperature <u>3</u> °C   |                                     |                                     |                                     |
| 9 Was a <b>trip blank</b> received?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Trip blank supplied by CAS: Serial # _____ -TB _____   |                                     |                                     |                                     |
| 10 Were <b>custody seals</b> on outside of cooler/Box?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12 <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Do they contain moisture?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13 <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0800299-001.01	125mL Plastic NP					
P0800299-002.01	125mL Plastic NP					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

**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 1Q08  
Project Number : G486090  
Sample Matrix : WATER

Service Request : P0800299  
Date Collected : 02/14/08  
Date Received : 02/14/08

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-10	P0800299-001	0.010	0.004	1	NA	02/14/08 13:40	ND	
MW-15	P0800299-002	0.010	0.004	1	NA	02/14/08 13:40	ND	
Method Blank	P0800299-MB	0.010	0.004	1	NA	02/14/08 13:40	ND	

Approved By



Date :

