TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

I12-016

Lot #: F2C150414
SDG #: SL1259

Scot Fitzgerald

CH2M Hill Plateau Remediation
PO Box 1500, MS B6-06
Richland, WA 99352

TESTAMERICA LABORATORIES, INC.

for
Jayna Awalt
Project Manager

March 30, 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
MS B3-60
Richland, Washington 99352
March 30, 2012
Attention: Scot Fitzgerald

TestAmerica Laboratories, Inc.

SDG	: SL1259
Number of Samples	: 11 samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: March 15, 2012

II. Introduction

On March 15, 2012, 11 water samples were received by TestAmerica - St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and CUR forms for documentation of any variations on receipt conditions and temperature. Upon receipt, the samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative. This narrative has been revised to include a nonconformance memo for the appropriate samples of the PAH Method as well as the accompanying P&D.

The following SAFs are associated with this SDG: I12-016, W12-003, I12-009, and I12-005.

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits. All results are based upon samples as they were received, i.e. wet weight, unless otherwise noted on the data sheets. See the attached Methods Summary Form for the methods used in this SDG.

MS/MSD/Dup analysis was done per the client requirements. Analytical batches that did not contain matrix QC were analyzed with a LCS/LCS duplicate.

Deviation from Request: None

IV. Definitions

QCBLK-	Quality Control Blank, Method Blank
QCLCS-	Quality Control Laboratory Control Sample, Blank Spike
DUP-	Laboratory Duplicate
MS-	Matrix Spike
MSD-	Matrix Spike Duplicate

The term "Detection Limit" used in the analytical data report refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

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The following data qualifiers may be applicable to the results in this report, as appropriate.

- **B** – For inorganic analyses, the sample result is greater than the MDL but less than the RL.
- **B** – For organic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **J** – For organic analyses, the sample is estimated and less than the RL.
- **C** – For inorganic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **D** – For all analyses, the sample result was obtained from the analysis of a dilution.
- **N** – For inorganics and GC analyses, the spike/spike duplicate recoveries are outside QC limits.
- **T** – For GCMS analyses, the spike/spike duplicate recoveries are outside QC limits.

Volatiles

Batch: 2079093

The CCV recovery was outside the upper QC limit (greater than 20% D) for Vinyl acetate indicating a potential high bias for those analytes in the samples associated with this CCV. This analyte was not detected above the reporting limit or was not a target analyte in the associated samples.
Affected Samples:
F2C150414 (1): B2K594

The MS/MSD recovery for Allyl chloride is outside the established QC limits. The RPD is within method acceptance criteria indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recovery. The analyte is qualified with a "T" flag.
Affected Samples:
F2C150414 (1): B2K594

Semivolatiles

Batch: 2079125

Three liters is the method suggested volume for sample, MS and MSD. Lab practice is to retain volume in case a QC failure requires a re-extraction. The MS/MSD was extracted at a lesser volume to preserve a liter for re-analysis.
Affected Samples:
F2C150414 (1): B2K594

The CCV %D was outside the established QC limits for N-Nitrosodimethylamine, Pyridine, 2,2-oxybis(1-cloropropane), and 2-Nitroanaline in the initial analysis. The sample was re-analyzed for these analytes with a passing CCV.
Affected Samples:
F2C150414 (1): B2K594

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Butyl benzyl phthalate was detected in the method blank at a concentration above the MDL but below the RL. The analyte was not detected above the MDL in the associated. No qualifier is required.
Affected Samples:
F2C150414 (1): B2K594

Pesticides

Batch: 2079115

Three liters is the method suggested volume for sample, MS and MSD. Lab practice is to retain volume in case a QC failure requires a re-extraction. The MS/MSD was extracted at a lesser volume to preserve a liter for re-analysis.
Affected Samples:
F2C150414 (1): B2K594

PAHs

Batch: 2087065

Three liters is the method suggested volume for sample, MS and MSD. Lab practice is to retain volume in case a QC failure requires a re-extraction. The MS/MSD was extracted at a lesser volume to preserve a liter for re-analysis.
Affected Samples:
F2C150413 (1): B2KFM2
F2C150413 (2): B2KFM8
F2C150413 (3): B2KFN2
F2C150413 (4): B2KFR2
F2C150414 (1): B2K594

Several analytes detected in the associated samples were given the "S" qualifier. The "S" was used to designate positive analyte detection on the primary column that appeared questionable during spectral confirmation. The software used to perform the confirmation of hits reviews an overlay of the sample and the reference library spectra. The software evaluates the differences in the spectra and assigns a "match" value. Values above 700 are considered a confirmation and results are reported. Values under the 700 threshold are flagged with the "S" qualifier.
Affected Samples:
F2C150413 (1): B2KFM2
F2C150413 (3): B2KFN2
F2C150413 (4): B2KFR2

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The samples were initially analyzed within hold time, but yielded unacceptable results. The samples were re-extracted and reanalyzed within two times hold.
Affected Samples:
F2C150413 (1): B2KFM2
F2C150413 (2): B2KFM8
F2C150413 (3): B2KFN2
F2C150413 (4): B2KFR2
F2C150414 (1): B2K594

ICP Total Metals

Batch: 2076029

The samples were analyzed at a dilution for Calcium and Strontium due to high concentrations of target and interfering analytes. The reporting limit has been adjusted for the dilution. The analytes are qualified with a "D" flag.
Affected Samples:
F2C150414 (2): B2K5D6

The MSD recovery for Calcium is outside the established QC limits. The said analyte concentration in the original sample is greater than four times the amount spiked, making percent recovery information ineffective. Method performance is demonstrated by acceptable LCS recovery. The analyte is qualified with an "N" flag.
Affected Samples:
F2C150414 (2): B2K5D6
F2C150419 (2): B2JY24

ICP Dissolved Metals

Batch: 2076028

The samples were analyzed at a dilution for Calcium and Strontium due to high concentrations of target and interfering analytes. The reporting limit has been adjusted for the dilution. The analytes are qualified with a "D" flag.
Affected Samples:
F2C150414 (3): B2K5F1

The MS recovery for Calcium is outside the established QC limits. The said analyte concentration in the original sample is greater than four times the amount spiked, making percent recovery information ineffective. Method performance is demonstrated by acceptable LCS recovery. The analyte is qualified with an "N" flag.
Affected Samples:
F2C150414 (3): B2K5F1

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F2C150419 (1): B2JY30

ICPMS Total Metals

Batch: 2080072

Boron, Lead, and Thallium were detected in the method blank at concentrations greater than the MDL but below the RL. The analytes are qualified with a "C" flag.
Affected Samples:
F2C150421 (1): B2JN32

The LCS recovery for Boron is outside the upper QC limit, indicating a potential positive bias for that analyte. This analyte was not observed above the reporting limit in the associated samples; therefore the sample data was not adversely affected by this excursion. The original sample results are provided.
Affected Samples:
F2C150421 (1): B2JN32

The MSD recovery for Boron is outside the upper QC limits. The RPD is within method acceptance criteria. The LCS was also above acceptable limits. The samples were below the reporting limit, showing that there is no high bias. The analyte is qualified with an "N" flag.
Affected Samples:
F2C150421 (1): B2JN32

The CCV recovery was outside the upper QC limit (greater than 110%) for Boron indicating a potential high bias for those analytes in the samples associated with this CCV. These analytes were not detected above the reporting limit in the associated samples.
Affected Samples:
F2C150421 (1): B2JN32

Due to LDR failures, the LDR has been lowered for Beryllium (200ppb). The LCS and the MS/MSD results were above the LDR. The LCS and MS/MSD recoveries were within acceptable QC limits. The MS/MSD results are reported as estimated values.
Affected Samples:
F2C150421 (1): B2JN32

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ICPMS Dissolved Metals

Batch: 2076033

Due to LDR failures, the LDR has been lowered for Beryllium (200ppb). The LCS and the MS/MSD results were above the LDR. The LCS and MS/MSD recoveries were within acceptable QC limits. The MS/MSD results are reported as estimated values.
Affected Samples:
F2C150421 (2): B2JN37

Mercury

Batch: 2079044 and 2079043

Additional Potassium Permanganate (13.5mL) was added to all samples and QC due to the Permanganate color not persisting for 15 minutes.
Affected Samples:
F2C150419 (1): B2JY30
F2C150419 (2): B2JY24

Ion Chromatography

Batches: 2075049-2075053

The samples were analyzed at a dilution for Chloride, Nitrate, and Sulfate due to high concentrations of target analytes. The reporting limit has been adjusted only for those targets reported from the dilution run. These analytes are qualified with a "D" flag in the associated samples.
Affected Samples:
F2C150414 (2): B2K5D6
F2C150419 (2): B2JY24
F2C150421 (1): B2JN32

There were no observations or nonconformances for the following methods:

Total Alkalinity

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I certify that this Summary Package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

Chenise Y. Lambert-Sykes
St. Louis Project Manager

Problem and Discrepancy Report

TASL

SDG SL1259

05/31/12

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1. **The data package has the following issues:**

   a) Missed hold times for PAH samples are not discussed in the case narrative for sample numbers; B2K594, B2KFM2, B2KFM8, B2KFN2, B2KFR2.

Resolution: *Provide appropriate correction.*

Lab Response: **Upon further investigation, all samples were initially prepared and extracted within hold time, however, results were unacceptable. Samples were then re-extracted and reanalyzed outside of holding time, but within the two times holding period. Notations of revisions are included within the introduction of the Narrative. P&D response is included within the data package.**

Please correct the issues and resubmit the hard copy data package.

Provide a resolution to each issue noted on the report

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-362
REV NUM	0
DATE INITIATED	8/27/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	W12-003, I12-016
OPERABLE UNIT(S)	NONE, 100-NR-2
PROJECT(S)	RCRA12, CERC12
SAMPLE EVENT TITLE(S)	RCRA12, CERC12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	8
SAMPLE NUMBERS	B2K577, B2K578, B2K594, B2KFM2, B2KFM5, B2KFM8, B2KFN2, B2KFR2
SAMPLE MATRIX	WATER
COLLECTION DATE	3/14/2012 - 3/14/2012
SDG NUM	SL1259, SL1260

ISSUE BACKGROUND

CLASS	Laboratory Issue
TYPE	Analysis Holding Time Exceeded
DESCRIPTION	For the listed samples, the 7-day extraction holding times were missed for the 8081_PEST_GC analytes and the 8310_SVOA_HPLC analytes. The chains of custody for the listed samples had the extraction holding times incorrectly listed as 14 days.

DISPOSITION

DESCRIPTION	Proposed Disposition: Document the missed holding times, close the SIR, and insert a copy of this SIR into a revision of the SDG.
JUSTIFICATION	Accepted Disposition: Accept Proposed Disposition

Submitted by: J. G. Douglas / CHPRC Date: 8/27/2012
Accepted by: Steve Trent / CHPRC Date: 8/27/2012

A-6003-640 (03/30)

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SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-233
REV NUM	0
DATE INITIATED	4/12/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	I12-016
OPERABLE UNIT(S)	100-NR-2
PROJECT(S)	CERC12
SAMPLE EVENT TITLE(S)	CERC12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	1
SAMPLE NUMBERS	B2K594
SAMPLE MATRIX	WATER
COLLECTION DATE	3/14/2012 - 3/14/2012
SDG NUM	SL1259

ISSUE BACKGROUND

CLASS	Chain of Custody Issue (Field)
TYPE	Broken Chain of Custody
DESCRIPTION	Chain of custody, sample B2K594, page 19, sampler relinquished sample at 1500 directly to FedEx. All other samples relinquished the same day, in the same cooler, in this SDG were relinquished by another NCO (shipper) at 1400. This potentially represents a broken chain of custody.

DISPOSITION

DESCRIPTION	PROPOSED DISPOSITION: Document the anomaly and close the SIR.
JUSTIFICATION	ACCEPTED DISPOSITION: Accept proposed resolution.

SUBMITTED BY: Michael Baechler/CHPRC DATE: 4/12/12
ACCEPTED BY: Susan Puckett/CHPRC DATE: 4/17/12

A-6003-640 (03/30)

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METHODS SUMMARY

SL1259

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Alkalinity	MCAWW 310.1	MCAWW 310.1
Chloride	MCAWW 300.0A	MCAWW 300.0A
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	
ICP-MS (6020)	SW846 6020	
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
Nitrate as NO3	MCAWW 300.0A	
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Organochlorine Pesticides	SW846 8081A	SW846 3520C
Polynuclear Aromatic Hydrocarbons by HPLC	SW846 8310	SW846 3510
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3510C
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

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

SAMPLE SUMMARY

SL1259 : F2C150413

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRE7A	001	B2KFM2	03/14/12	09:07
MRE7E	002	B2KFM8	03/14/12	10:25
MRE7F	003	B2KFN2	03/14/12	12:36
MRE7G	004	B2KFR2	03/14/12	11:29

NOTE(S):

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

(Continued on next page)

SAMPLE SUMMARY

SL1259 : F2C150414

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRE7H	001	B2K594	03/14/12	10:42
MRE7K	002	B2K5D6	03/14/12	12:16
MRE7Q	003	B2K5F1	03/14/12	12:16

NOTE(S):

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- Results noted as "ND" were not detected at or above the stated limit.
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(Continued on next page)

SAMPLE SUMMARY

SL1259 : F2C150419

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRE7T	001	B2JY30	03/14/12	11:35
MRE7V	002	B2JY24	03/14/12	11:35

NOTE(S):

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

(Continued on next page)

SAMPLE SUMMARY

SL1259 : F2C150421

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRE7X	001	B2JN32	03/14/12	09:07
MRE72	002	B2JN37	03/14/12	09:07

NOTE(S):

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

SDG# SL1259

CWS 174 SL1259

SH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I12-005-005**

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Collector	L.D. Wall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	I12-005	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	100KR4, DECEMBER 2011	**Logbook No.**	HNF-N-506 44 / 47	**Ice Chest No.**	GWS-189-02
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7981 7002 8560
Protocol	CERCLA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.
FY11 and FY12 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2JN32	N	W	03-14-12	0907	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2JN32	N	W			1x500-mL G/P	6020_METALS_ICPMS: DURA LIST (10)	6 Months	HNO3 to pH <2
B2JN32	N	W			1x20-mL P	Activity Scan	6 Months	None
B2JN37	Y	W	03-14-12	0907	1x500-mL G/P	6020_METALS_ICPMS: DURA LIST (10)	6 Months	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. Wall CHPRC	L.D. Wall		MAR 14 2012 1330	R Ellingsworth			MAR 14 2012 1330
R Ellingsworth			3/14/12 1400	Fed Ex			
Fed Ex				S Wilson			3-15-12 0930

Matrix *			
S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

A-6004-842 (REV 2)

Print page | Close

FedEx

Detailed Results

Tracking no.: 798170028560 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Mar 14, 2012	EARTH CITY, MO
Delivery date Mar 15, 2012 9:27 AM	Signature Proof of Delivery

Shipment Options

Hold at FedEx Location
Hold at FedEx Location service is not available for this shipment.

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	55.0 lbs/24.9 kg	Reference	gws-189-02

Shipment Travel History

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Mar 15, 2012 9:27 AM	**Delivered**	EARTH CITY, MO	
Mar 15, 2012 6:53 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Mar 15, 2012 6:47 AM	At local FedEx facility	EARTH CITY, MO	
Mar 15, 2012 5:05 AM	At destination sort facility	BERKELEY, MO	
Mar 15, 2012 4:18 AM	Departed FedEx location	MEMPHIS, TN	
Mar 15, 2012 12:48 AM	Arrived at FedEx location	MEMPHIS, TN	
Mar 14, 2012 5:10 PM	Left FedEx origin facility	PASCO, WA	
Mar 14, 2012 3:48 PM	Picked up	PASCO, WA	
Mar 14, 2012 5:19 PM	Shipment information sent to FedEx		

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CUR Form #: 1 7 6

Lot #(s): F2C150413, 414, 419, 421

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: below

Initiated By: CV

Date: 3.15.12 Time: 0930

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*		Sample Temperature (s):**	
1. 7933 3947 7030	6.	1. 3	6.
2. 3956 5820	7.	2. 2	7.
3. 7981 7002 8560	8.	3. 2	8.
4.	9.	4.	9.
5.	10.	5.	10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid; Rad tests- Liquid or Solids; Perchlorate

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y N	Are there custody seals present on the cooler?	8.	Y N	Are there custody seals present on bottles?
2.	Y N N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N N/A	Do custody seals on bottles appear to be tampered with?
3.	Y N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	Y N	Sample received with Chain of Custody?	11.	Y N N/A	Containers for C-14, H-3 & I-129/131 marked with "Do Not Preserve" label?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N	Sample received in proper containers?
6.	Y N	Was sample received broken?	13.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was Internal COC/Workshare received?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX, Oil & Grease and soils.

Notes:

Corrective Action:

Client Contact Name: _____ Informed by: _____

Sample(s) processed "as is"

Sample(s) on hold until: _____ If released, notify: _____

Project Management Review: Jayna Awalt Date: 3/20/12

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004 rev13, REVISED 05/27/11 \\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin-0004 CUR.doc

CWI 176

CH2MHill Plateau Remediation Company

SL1259

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I12-009-054

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SDG# SL1259

Collector	AL MCINTYRE / CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-009	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, JANUARY 2012	Logbook No.	HNF-N-506 42 / 45	Ice Chest No.	CWS 285
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7933 3956 5820
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2JY30	Y	W	3/14/12	1135	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2JY30	Y	W			1x500-mL G	7470_HG_CVAA: Mercury (1)	28 Days	HNO3 to pH <2
B2JY24	N	W			1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2JY24	N	W			1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2JY24	N	W			1x500-mL G	7470_HG_CVAA: Mercury (1)	28 Days	HNO3 to pH <2
B2JY24	N	W			4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2JY24	N	W			1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Date/Time	Received By	Date/Time
Print: AL MCINTYRE / CHPRC; Sign: [signature]	1313 MAR 14 2012	Print: [signature]; Sign: [signature]	1313 MAR 14 2012
Print: [signature]; Sign: [signature]	3/14/12 1460	Received By: Fed EX	
Relinquished By: Fed EX		Received By: S Wilson [signature]	3.15.12 0930

Matrix *

S = Soil		DS = Drum Solids	
SE = Sediment		DL = Drum Liquids	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wipe	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PRINTED O 12/14/2011 A-6004-842 (REV 2)

Print page | Close

FedEx

Detailed Results

Tracking no.: 793339565820 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Mar 14, 2012	EARTH CITY, MO
Delivery date Mar 15, 2012 9:27 AM	Signature Proof of Delivery

Shipment Options

Hold at FedEx Location
Hold at FedEx Location service is not available for this shipment.

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	20.0 lbs/9.1 kg	Reference	GWS-295

Shipment Travel History

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Mar 15, 2012 9:27 AM	**Delivered**	EARTH CITY, MO	
Mar 15, 2012 7:19 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Mar 15, 2012 7:13 AM	At local FedEx facility	EARTH CITY, MO	
Mar 15, 2012 5:05 AM	At destination sort facility	BERKELEY, MO	
Mar 15, 2012 4:18 AM	Departed FedEx location	MEMPHIS, TN	
Mar 15, 2012 12:48 AM	Arrived at FedEx location	MEMPHIS, TN	
Mar 14, 2012 5:10 PM	Left FedEx origin facility	PASCO, WA	
Mar 14, 2012 3:48 PM	Picked up	PASCO, WA	
Mar 14, 2012 5:27 PM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 1 7 6

Lot #(s): F2C150413, 414, 419, 421

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: below

Initiated By: CV

Date: 3.15.12 Time: 0930

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*		Sample Temperature (s):**	
1. 7933 3947 7030	6.	1. 3	6.
2. 3956 5820	7.	2. 2	7.
3. 7981 7002 8560	8.	3. 2	8.
4.	9.	4.	9.
5.	10.	5.	10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid; Rad tests- Liquid or Solids; Perchlorate

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y N	Are there custody seals present on the cooler?	8.	Y N	Are there custody seals present on bottles?
2.	Y N N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N N/A	Do custody seals on bottles appear to be tampered with?
3.	Y N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	Y N	Sample received with Chain of Custody?	11.	Y N N/A	Containers for C-14, H-3 & I-129/131 marked with "Do Not Preserve" label?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N	Sample received in proper containers?
6.	Y N	Was sample received broken?	13.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was Internal COC/Workshare received?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX, Oil & Grease and soils.

Notes:

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review: Jayna Awalt Date: 3/20/12

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

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CH2MHill Plateau Remediation Company

SL1259

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I12-016-011

Page 1 of 1

Collector	FM Hall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-016	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100NR2, MARCH 2012	Logbook No.	HNF-N-506 45/63	Ice Chest No.	GWS-189-02-001
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7953 3947 7030
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

200 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2K594	N	W	3.14.12	1042	2x1-L aG	8081_PEST_GC: List-1 (19)	14/40 Days	Cool<6C
B2K594	N	W			4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2K594	N	W			3x1-L aG	8270_SVOA_GCMS_IX: List-1 (123)	7/40 Days	Cool~4C
B2K594	N	W			2x1-L aG	8310_SVOA_HPLC	14/40 Days	Cool~4C
B2K594	N	W			1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FM Hall CHPRC			MAR 14 2012/1500	FEDEX			
FedEx				S Wilson			3.15.12 0930

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PRINTED O 12/21/2011

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company

SL259

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I12-016-013

Page 1 of 1

Collector	FM Hall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-016	Sampling Origin	Hanford Site	Purchase Order/Charge Code	30007/ES20
Project Title	100NR2, MARCH 2012	Logbook No.	HNF-N-506 45163	Ice Chest No.	6 WS ~~607~~ 3/14/12 189-02
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7981 7002 8560
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

200 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2K5D6	N	W	3/14/12	1216	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2K5D6	N	W	↓	↓	1x500-mL G/P	310.1_ALKALINITY: Alkalinity (1)	14 Days	Cool~4C
B2K5D6	N	W			1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2K5D6	N	W			1x20-mL P	Activity Scan	6 Months	None
B2K5F1	Y	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FM Hall CHPRC			MAR 14 2012 1330	R Ellingsworth			MAR 14 2012 1330
R Ellingsworth			3/14/12 1400	Fed EX			
Fed Ex				S Wilson			3.15.12 0930

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

Print page | Close

FedEx

Detailed Results

Tracking no.: 793339477030 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Mar 14, 2012	EARTH CITY, MO
Delivery date Mar 15, 2012 9:27 AM	Signature Proof of Delivery

Shipment Options

Hold at FedEx Location
Hold at FedEx Location service is not available for this shipment.

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	88.0 lbs/39.9 kg	Reference	gws-001

Shipment Travel History

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Mar 15, 2012 9:27 AM	**Delivered**	EARTH CITY, MO	
Mar 15, 2012 6:54 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Mar 15, 2012 6:49 AM	At local FedEx facility	EARTH CITY, MO	
Mar 15, 2012 5:05 AM	At destination sort facility	BERKELEY, MO	
Mar 15, 2012 4:18 AM	Departed FedEx location	MEMPHIS, TN	
Mar 15, 2012 12:48 AM	Arrived at FedEx location	MEMPHIS, TN	
Mar 14, 2012 5:10 PM	Left FedEx origin facility	PASCO, WA	
Mar 14, 2012 3:48 PM	Picked up	PASCO, WA	
Mar 14, 2012 5:16 PM	Shipment information sent to FedEx		

Print page | Close

FedEx

Detailed Results

Tracking no.: 798170028560 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Mar 14, 2012	EARTH CITY, MO
Delivery date Mar 15, 2012 9:27 AM	Signature Proof of Delivery

Shipment Options

Hold at FedEx Location
Hold at FedEx Location service is not available for this shipment.

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	55.0 lbs/24.9 kg	Reference	gws-189-02

Shipment Travel History

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Mar 15, 2012 9:27 AM	**Delivered**	EARTH CITY, MO	
Mar 15, 2012 6:53 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Mar 15, 2012 6:47 AM	At local FedEx facility	EARTH CITY, MO	
Mar 15, 2012 5:05 AM	At destination sort facility	BERKELEY, MO	
Mar 15, 2012 4:18 AM	Departed FedEx location	MEMPHIS, TN	
Mar 15, 2012 12:48 AM	Arrived at FedEx location	MEMPHIS, TN	
Mar 14, 2012 5:10 PM	Left FedEx origin facility	PASCO, WA	
Mar 14, 2012 3:48 PM	Picked up	PASCO, WA	
Mar 14, 2012 5:19 PM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 1 7 6

Lot #(s): F2C150413, 414, 419, 421

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: below

Initiated By: CV

Date: 3.15.12 Time: 0930

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*		Sample Temperature (s):**	
1. 7933 3947 7030	6.	1. 3	6.
2. 3956 5820	7.	2. 2	7.
3. 7981 7002 8560	8.	3. 2	8.
4.	9.	4.	9.
5.	10.	5.	10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid; Rad tests- Liquid or Solids; Perchlorate

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y N	Are there custody seals present on the cooler?	8.	Y N	Are there custody seals present on bottles?
2.	Y N N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N N/A	Do custody seals on bottles appear to be tampered with?
3.	Y N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	Y N	Sample received with Chain of Custody?	11.	Y N N/A	Containers for C-14, H-3 & I-129/131 marked with "Do Not Preserve" label?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N	Sample received in proper containers?
6.	Y N	Was sample received broken?	13.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was Internal COC/Workshare received?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX, Oil & Grease and soils.

Notes:

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review: Jayna Awalt Date: 3/19/12

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

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cur 176

SDG# SL1259

CH2MHill Plateau Remediation Company

SL1259

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W12-003-227

Collector	L.D. Wall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W12-003	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	RCRA, MARCH 2012	Logbook No.	HNF-N-506 44/47	Ice Chest No.	GWS 001
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7933 3947 7030
Protocol	RCRA	Priority:	45 Days	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KFM2	N	W	03-14-12	0907	1x20-mL P	Activity Scan	6 Months	None
B2KFM2	N	W	03-14-12	0907	2x1-L aG	8310_SVOA_HPLC	14/40 Days	Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. Wall CHPRC	L.D. Wall		MAR 14 2012 1330	R Ellingsworth			MAR 14 2012 1330
R Ellingsworth			3/14/12 1400	Fed EX			
FedEx				SWilson			3.15.12 0930

Matrix *

S	= Soil	DS	= Drum Solids		
SE	= Sediment	DL	= Drum Liquids		
SO	= Solid	T	= Tissue		
SL	= Sludge	WI	= Wipe		
W	= Water	L	= Liquid		
O	= Oil	V	= Vegetation		
A	= Air	X	= Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PRINTED ON 2/29/2012

A-6004-842 (REV 2)

REVISIONS POSTED OUT OF SEQUENCE
APRIL 17, 2012
TestAmerica St. Louis
REVISION 3

CH2MHill Plateau Remediation Company

SL1259

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W12-003-234

Collector	L.D. Wall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W12-003	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	RCRA, MARCH 2012	Logbook No.	HNF-N-506 44/47	Ice Chest No.	GWS 001
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7933 3747 7030
Protocol	RCRA	Priority:	45 Days	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KFM8	N	W	03-14-12	1025	1x20-mL P	Activity Scan	6 Months	None
B2KFM8	N	W	03-14-12	1025	2x1-L aG	8310_SVOA_HPLC	14/40 Days	Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. Wall CHPRC	L.D. Wall	L.D. Wall	MAR 14 2012 1330	R Ellingsworth	R Ellingsworth	R Ellingsworth	MAR 14 2012 1330
R Ellingsworth	R Ellingsworth	R Ellingsworth	3/14/12 1400	Fed EX			
Fed Ex				S Wilson	S Wilson	S Wilson	3-15-12 0930

Matrix *

S	= Soil	DS	= Drum Solids		
SE	= Sediment	DL	= Drum Liquids		
SO	= Solid	T	= Tissue		
SL	= Sludge	WI	= Wipe		
W	= Water	L	= Liquid		
O	= Oil	V	= Vegetation		
A	= Air	X	= Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PRINTED ON 2/29/2012

A-6004-842 (REV 2)

REVISIONS POSTED OUT OF SEQUENCE APRIL 17, 2012 TestAmerica St. Louis REVISION 3

CH2MHill Plateau Remediation Company

SL1259

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W12-003-237

Collector	L.D. Wall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W12-003	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	RCRA, MARCH 2012	Logbook No.	HNF-N-506 44/47	Ice Chest No.	CWS 001
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7733 3947 7030
Protocol	RCRA	Priority:	45 Days	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KFN2	N	W	03-14-12	1236	1x20-mL P	Activity Scan	6 Months	None
B2KFN2	N	W	03-14-12	1236	2x1-L aG	8310_SVOA_HPLC	14/40 Days	Cool~4C

Relinquished By	Received By
Print: L.D. Wall CHPRC; Sign: L.D. Wall; Date/Time: MAR 14 2012 1330	Print: R Ellingsworth; Sign: R Ellingsworth; Date/Time: MAR 14 2012 1330
Relinquished By: R Ellingsworth R Ellingsworth; Date/Time: 3/14/12 1400	Received By: Fed Ex; Date/Time:
Relinquished By: Fed Ex; Date/Time:	Received By: S Wilson; Date/Time: 3/15/12 0938
Relinquished By; Date/Time:	Received By; Date/Time:

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

A-6004-842 (REV 2)

REVISIONS POSTED OUT OF SEQUENCE APRIL 17, 2012 TestAmerica St. Louis REVISION 3

SDG# SL1259

CH2MHill Plateau Remediation Company

SL1259

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W12-003-250

Collector	L.D. Wall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W12-003	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	RCRA, MARCH 2012	Logbook No.	HNF-N-506 44/47	Ice Chest No.	GWS 001
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7933 3947 7050
Protocol	RCRA	Priority:	45 Days	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KFR2	N	W	03-14-12	1129	1x20-mL P	Activity Scan	6 Months	None
B2KFR2	N	W	03-14-12	1129	2x1-L aG	8310_SVOA_HPLC	14/40 Days	Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. Wall CHPRC	L.D. Wall	L.D. Wall	MAR 14 2012 1330	R Ellingsworth	R Ellingsworth	R Ellingsworth	MAR 14 2012 1330
R Ellingsworth	R Ellingsworth	R Ellingsworth	3/14/12 1400	Fed EX			
Fed Ex				S Wilson	S Wilson	S Wilson	3.15.12 0930

Matrix *

S = Soil	DS = Drum Solids		
SE = Sediment	DL = Drum Liquids		
SO = Solid	T = Tissue		
SL = Sludge	WI = Wipe		
W = Water	L = Liquid		
O = Oil	V = Vegetation		
A = Air	X = Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PRINTED ON 2/29/2012

A-6004-842 (REV 2)

REVISIONS POSTED OUT OF SEQUENCE APRIL 17, 2012 TestAmerica St. Louis REVISION 3

Print page | Close

FedEx

Detailed Results

Tracking no.: 793339477030 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Mar 14, 2012	EARTH CITY, MO
Delivery date Mar 15, 2012 9:27 AM	Signature Proof of Delivery

Shipment Options

Hold at FedEx Location
Hold at FedEx Location service is not available for this shipment.

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	88.0 lbs/39.9 kg	Reference	gws-001

Shipment Travel History

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Mar 15, 2012 9:27 AM	**Delivered**	EARTH CITY, MO	
Mar 15, 2012 6:54 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Mar 15, 2012 6:49 AM	At local FedEx facility	EARTH CITY, MO	
Mar 15, 2012 5:05 AM	At destination sort facility	BERKELEY, MO	
Mar 15, 2012 4:18 AM	Departed FedEx location	MEMPHIS, TN	
Mar 15, 2012 12:48 AM	Arrived at FedEx location	MEMPHIS, TN	
Mar 14, 2012 5:10 PM	Left FedEx origin facility	PASCO, WA	
Mar 14, 2012 3:48 PM	Picked up	PASCO, WA	
Mar 14, 2012 5:16 PM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 1 7 6

Lot #(s): F2C150413, 414, 419, 421

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: below

Initiated By: CV

Date: 3.15.12 Time: 0930

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*		Sample Temperature (s):**	
1. 7933 3947 7030	6.	1. 3	6.
2. 3956 5820	7.	2. 2	7.
3. 7981 7002 8560	8.	3. 2	8.
4.	9.	4.	9.
5.	10.	5.	10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid; Rad tests- Liquid or Solids; Perchlorate

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y N	Are there custody seals present on the cooler?	8.	Y N	Are there custody seals present on bottles?
2.	Y N N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N N/A	Do custody seals on bottles appear to be tampered with?
3.	Y N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	Y N	Sample received with Chain of Custody?	11.	Y N N/A	Containers for C-14, H-3 & I-129/131 marked with "Do Not Preserve" label?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N	Sample received in proper containers?
6.	Y N	Was sample received broken?	13.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was Internal COC/Workshare received?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX, Oil & Grease and soils.

Notes:

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review: Jayna Awalt Date: 3/19/12

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004 rev13, REVISED 05/27/11 \\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin-0004 CUR.doc

GC/MS VOLATILES

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K594

GC/MS Volatiles

Lot-Sample #...: F2C150414-001 **Work Order #...:** MRE7H1AF **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12
Prep Date.....: 03/19/12 **Analysis Date..:** 03/19/12
Prep Batch #...: 2079093
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetonitrile	ND	5.0	ug/L	2.0
Acrolein	ND	10	ug/L	2.8
Bromodichloromethane	ND	1.0	ug/L	0.088
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	2.0	ug/L	0.25
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroprene	ND	1.0	ug/L	0.097
Dibromochloromethane	ND	1.0	ug/L	0.13
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.41
Chloroethane	ND	2.0	ug/L	0.099
Chloromethane	ND	2.0	ug/L	0.077
Allyl chloride	ND T	2.0	ug/L	0.11
1,2-Dibromoethane	ND	1.0	ug/L	0.13
Dibromomethane	ND	1.0	ug/L	0.21
trans-1,4-Dichloro-2-butene	ND	2.0	ug/L	0.29
Dichlorodifluoromethane	ND	2.0	ug/L	0.084
1,1-Dichloroethene	ND	1.0	ug/L	0.083
1,2-Dichloroethene (total)	ND	2.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.097
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.073
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.083
1,4-Dioxane	ND	20	ug/L	7.6
Ethylbenzene	ND	1.0	ug/L	0.086
Ethyl methacrylate	ND	1.0	ug/L	0.11
Trichlorofluoromethane	ND	1.0	ug/L	0.11
2-Hexanone	ND	5.0	ug/L	0.22
Iodomethane	ND	2.0	ug/L	0.092
Isobutanol	ND	80	ug/L	8.7
Methacrylonitrile	ND	5.0	ug/L	0.50
Methyl methacrylate	ND	1.0	ug/L	0.26
Styrene	ND	1.0	ug/L	0.074
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.090
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.098
1,2,3-Trichloropropane	ND	1.0	ug/L	0.15
Vinyl acetate	ND	2.0	ug/L	0.18
Vinyl chloride	ND	2.0	ug/L	0.084

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K594

GC/MS Volatiles

Lot-Sample #...: F2C150414-001 Work Order #...: MRE7H1AF Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	**0.35 J**	**1.0**	**ug/L**	**0.27**
Carbon disulfide	ND	1.0	ug/L	0.051
1,1-Dichloroethane	ND	1.0	ug/L	0.068
2-Butanone	ND	5.0	ug/L	0.52
Chloroform	**1.0**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.087
Propionitrile	ND	5.0	ug/L	1.4
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.083
1,1,1-Trichloroethane	ND	1.0	ug/L	0.069
Carbon tetrachloride	ND	1.0	ug/L	0.12
1,2-Dichloroethane	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.064
Trichloroethene	ND	1.0	ug/L	0.25
4-Methyl-2-pentanone	ND	5.0	ug/L	0.12
1,1,2-Trichloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.18
Tetrahydrofuran	ND	10	ug/L	1.1
Xylenes (total)	ND	3.0	ug/L	0.20
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
1-Butanol	ND	40	ug/L	12
Toluene	ND	1.0	ug/L	0.072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	112	(85 - 120)
Dibromofluoromethane	106	(85 - 118)
1,2-Dichloroethane-d4	109	(80 - 119)
4-Bromofluorobenzene	109	(84 - 115)

NOTE(S):

T Spike sample recovery is outside control limits.

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

B2K594

GC/MS Volatiles

Lot-Sample #: F2C150414-001 **Work Order #:** MRE7H1AF **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JY24

GC/MS Volatiles

Lot-Sample #...: F2C150419-002 Work Order #...: MRE7V1A0 Matrix.....: WATER
Date Sampled...: 03/14/12 Date Received..: 03/15/12
Prep Date.....: 03/19/12 Analysis Date..: 03/19/12
Prep Batch #...: 2079093
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.083
1,4-Dioxane	ND	80	ug/L	7.6
Ethylbenzene	ND	1.0	ug/L	0.086
Vinyl chloride	ND	2.0	ug/L	0.084
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	**0.48 J**	**1.0**	**ug/L**	**0.27**
Carbon disulfide	ND	1.0	ug/L	0.051
1,1-Dichloroethane	ND	1.0	ug/L	0.068
2-Butanone	ND	5.0	ug/L	0.52
Chloroform	**0.35 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.087
Propionitrile	ND	5.0	ug/L	1.4
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.083
1,1,1-Trichloroethane	ND	1.0	ug/L	0.069
Carbon tetrachloride	ND	1.0	ug/L	0.12
1,2-Dichloroethane	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.064
Trichloroethene	**4.8**	**1.0**	**ug/L**	**0.25**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.12
1,1,2-Trichloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.18
Tetrahydrofuran	ND	10	ug/L	1.1
Xylenes (total)	ND	3.0	ug/L	0.20
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
1-Butanol	ND	40	ug/L	12
Toluene	ND	1.0	ug/L	0.072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	113	(85 - 120)
Dibromofluoromethane	108	(85 - 118)
1,2-Dichloroethane-d4	114	(80 - 119)
4-Bromofluorobenzene	112	(84 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

B2JY24

GC/MS Volatiles

Lot-Sample #: F2C150419-002 **Work Order #:** MRE7V1A0 **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL1259 **Work Order #...:** MRG8K1AA **Matrix.....:** WATER
MB Lot-Sample #: F2C190000-093

Prep Date.....: 03/19/12
Analysis Date..: 03/19/12 **Prep Batch #...:** 2079093
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetonitrile	ND	5.0	ug/L	SW846 8260B
Acrolein	ND	10	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroprene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Allyl chloride	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	2.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	2.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	20	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Ethyl methacrylate	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isobutanol	ND	80	ug/L	SW846 8260B
Methacrylonitrile	ND	5.0	ug/L	SW846 8260B
Methyl methacrylate	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL1259 **Work Order #...:** MRG8K1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Propionitrile	ND	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1-Butanol	ND	40	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	113	(85 - 120)
Dibromofluoromethane	98	(85 - 118)
1,2-Dichloroethane-d4	94	(80 - 119)
4-Bromofluorobenzene	114	(84 - 115)

NOTE(S):

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

CH2M Hill Plateau Remediation DOE RL

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F2C190000-093 B **Work Order #:** MRG8K1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1259 Work Order #...: MRG8K1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F2C190000-093 MRG8K1AD-LCSD
Prep Date.....: 03/19/12 Analysis Date..: 03/19/12
Prep Batch #...: 2079093
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Dibromochloromethane	10.0	9.90	ug/L	99		SW846 8260B
	10.0	9.51	ug/L	95	4.0	SW846 8260B
Chloromethane	10.0	9.40	ug/L	94		SW846 8260B
	10.0	9.27	ug/L	93	1.4	SW846 8260B
Bromomethane	10.0	10.5	ug/L	105		SW846 8260B
	10.0	10.3	ug/L	103	1.3	SW846 8260B
Chloroethane	10.0	9.12	ug/L	91		SW846 8260B
	10.0	8.90	ug/L	89	2.4	SW846 8260B
1,1-Dichloroethene	10.0	9.63	ug/L	96		SW846 8260B
	10.0	9.55	ug/L	96	0.80	SW846 8260B
1,2-Dichloroethene (total)	20.0	19.9	ug/L	100		SW846 8260B
	20.0	19.9	ug/L	99	0.15	SW846 8260B
1,2-Dichloropropane	10.0	10.1	ug/L	101		SW846 8260B
	10.0	10.0	ug/L	100	0.29	SW846 8260B
Bromodichloromethane	10.0	9.64	ug/L	96		SW846 8260B
	10.0	9.33	ug/L	93	3.3	SW846 8260B
trans-1,3-Dichloropropene	10.0	11.0	ug/L	110		SW846 8260B
	10.0	10.4	ug/L	104	6.2	SW846 8260B
2-Hexanone	10.0	9.81	ug/L	98		SW846 8260B
	10.0	9.52	ug/L	95	3.0	SW846 8260B
cis-1,3-Dichloropropene	10.0	11.8	ug/L	118		SW846 8260B
	10.0	11.6	ug/L	116	2.1	SW846 8260B
Chlorobenzene	10.0	9.99	ug/L	100		SW846 8260B
	10.0	9.89	ug/L	99	0.98	SW846 8260B
Bromoform	10.0	9.78	ug/L	98		SW846 8260B
	10.0	9.58	ug/L	96	2.0	SW846 8260B
Ethylbenzene	10.0	11.2	ug/L	112		SW846 8260B
	10.0	11.1	ug/L	111	0.89	SW846 8260B
Styrene	10.0	11.9	ug/L	119		SW846 8260B
	10.0	11.4	ug/L	114	3.8	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	9.43	ug/L	94		SW846 8260B
	10.0	9.09	ug/L	91	3.7	SW846 8260B
Allyl chloride	10.0	8.01	ug/L	80		SW846 8260B
	10.0	8.06	ug/L	81	0.54	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	10.0	10.5	ug/L	105		SW846 8260B
	10.0	9.31	ug/L	93	12	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1259 Work Order #...: MRG8K1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F2C190000-093 MRG8K1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,2-Dibromoethane	10.0	10.2	ug/L	102		SW846 8260B
	10.0	10.0	ug/L	100	1.3	SW846 8260B
trans-1,4-Dichloro-2-butene	10.0	8.89	ug/L	89		SW846 8260B
	10.0	8.33	ug/L	83	6.6	SW846 8260B
Dichlorodifluoromethane (Freon 12)	10.0	8.66	ug/L	87		SW846 8260B
	10.0	8.47	ug/L	85	2.3	SW846 8260B
Ethyl methacrylate	10.0	8.60	ug/L	86		SW846 8260B
	10.0	8.16	ug/L	82	5.3	SW846 8260B
Methyl methacrylate	10.0	9.80	ug/L	98		SW846 8260B
	10.0	9.42	ug/L	94	4.0	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	9.75	ug/L	98		SW846 8260B
	10.0	9.73	ug/L	97	0.25	SW846 8260B
Trichlorofluoromethane	10.0	9.29	ug/L	93		SW846 8260B
	10.0	9.15	ug/L	91	1.6	SW846 8260B
Acetonitrile	50.0	39.4	ug/L	79		SW846 8260B
	50.0	39.8	ug/L	80	0.96	SW846 8260B
Iodomethane	10.0	9.81	ug/L	98		SW846 8260B
	10.0	8.91	ug/L	89	9.6	SW846 8260B
Vinyl acetate	10.0	8.90	ug/L	89		SW846 8260B
	10.0	8.74	ug/L	87	1.8	SW846 8260B
Acrolein	50.0	52.3	ug/L	105		SW846 8260B
	50.0	51.0	ug/L	102	2.6	SW846 8260B
Isobutanol	200	161	ug/L	81		SW846 8260B
	200	155	ug/L	77	4.0	SW846 8260B
Methacrylonitrile	50.0	47.6	ug/L	95		SW846 8260B
	50.0	45.6	ug/L	91	4.4	SW846 8260B
1,4-Dioxane	200	185	ug/L	93		SW846 8260B
	200	173	ug/L	86	7.0	SW846 8260B
Chloroprene	10.0	9.61	ug/L	96		SW846 8260B
	10.0	9.53	ug/L	95	0.76	SW846 8260B
Dibromomethane	10.0	9.71	ug/L	97		SW846 8260B
	10.0	9.56	ug/L	96	1.6	SW846 8260B
1,2,3-Trichloropropane	10.0	9.85	ug/L	98		SW846 8260B
	10.0	9.54	ug/L	95	3.2	SW846 8260B
Vinyl chloride	10.0	9.84	ug/L	98		SW846 8260B
	10.0	9.70	ug/L	97	1.5	SW846 8260B
Acetone	10.0	7.46	ug/L	75		SW846 8260B
	10.0	8.01	ug/L	80	7.1	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1259 Work Order #...: MRG8K1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F2C190000-093 MRG8K1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Methylene chloride	10.0	8.74	ug/L	87		SW846 8260B
	10.0	8.60	ug/L	86	1.6	SW846 8260B
Carbon disulfide	10.0	10.8	ug/L	108		SW846 8260B
	10.0	10.7	ug/L	107	0.74	SW846 8260B
1,1-Dichloroethane	10.0	9.71	ug/L	97		SW846 8260B
	10.0	9.58	ug/L	96	1.3	SW846 8260B
2-Butanone	10.0	9.61	ug/L	96		SW846 8260B
	10.0	9.04	ug/L	90	6.2	SW846 8260B
Chloroform	10.0	9.73	ug/L	97		SW846 8260B
	10.0	9.71	ug/L	97	0.22	SW846 8260B
cis-1,2-Dichloroethene	10.0	10.4	ug/L	104		SW846 8260B
	10.0	10.4	ug/L	104	0.38	SW846 8260B
Propionitrile	50.0	42.6	ug/L	85		SW846 8260B
	50.0	43.6	ug/L	87	2.2	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.54	ug/L	95		SW846 8260B
	10.0	9.46	ug/L	95	0.75	SW846 8260B
1,1,1-Trichloroethane	10.0	9.86	ug/L	99		SW846 8260B
	10.0	9.82	ug/L	98	0.40	SW846 8260B
Carbon tetrachloride	10.0	9.80	ug/L	98		SW846 8260B
	10.0	9.60	ug/L	96	2.1	SW846 8260B
1,2-Dichloroethane	10.0	9.61	ug/L	96		SW846 8260B
	10.0	9.30	ug/L	93	3.3	SW846 8260B
Benzene	10.0	10.3	ug/L	103		SW846 8260B
	10.0	10.2	ug/L	102	0.97	SW846 8260B
Trichloroethene	10.0	10.2	ug/L	102		SW846 8260B
	10.0	9.84	ug/L	98	3.1	SW846 8260B
4-Methyl-2-pentanone	10.0	9.77	ug/L	98		SW846 8260B
	10.0	9.63	ug/L	96	1.5	SW846 8260B
1,1,2-Trichloroethane	10.0	9.56	ug/L	96		SW846 8260B
	10.0	9.39	ug/L	94	1.8	SW846 8260B
Tetrachloroethene	10.0	10.5	ug/L	105		SW846 8260B
	10.0	10.6	ug/L	106	0.47	SW846 8260B
Tetrahydrofuran	50.0	52.3	ug/L	105		SW846 8260B
	50.0	49.1	ug/L	98	6.3	SW846 8260B
1,4-Dichlorobenzene	10.0	10.1	ug/L	101		SW846 8260B
	10.0	9.84	ug/L	98	3.0	SW846 8260B
1-Butanol	100	91.6	ug/L	92		SW846 8260B
	100	91.0	ug/L	91	0.69	SW846 8260B
Toluene	10.0	11.0	ug/L	110		SW846 8260B
	10.0	11.0	ug/L	110	0.36	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1259 **Work Order #...:** MRG8K1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F2C190000-093 MRG8K1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	109	(88 - 120)
	111	(88 - 120)
Dibromofluoromethane	95	(87 - 115)
	97	(87 - 115)
1,2-Dichloroethane-d4	94	(81 - 117)
	92	(81 - 117)
4-Bromofluorobenzene	110	(84 - 117)
	108	(84 - 117)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1259 Work Order #...: MRE7H1AL-MS Matrix.....: WATER
MS Lot-Sample #: F2C150414-001 MRE7H1AM-MSD
Date Sampled...: 03/14/12 Date Received..: 03/15/12
Prep Date.....: 03/19/12 Analysis Date..: 03/19/12
Prep Batch #...: 2079093
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
cis-1,3-Dichloropropene	ND	10.0	11.5	ug/L	115		SW846 8260B
	ND	10.0	11.7	ug/L	117	1.7	SW846 8260B
Chloromethane	ND	10.0	9.70	ug/L	97		SW846 8260B
	ND	10.0	10.9	ug/L	109	12	SW846 8260B
Bromomethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	11.7	ug/L	117	14	SW846 8260B
Chloroethane	ND	10.0	9.50	ug/L	95		SW846 8260B
	ND	10.0	10.5	ug/L	105	9.7	SW846 8260B
1,1-Dichloroethene	ND	10.0	9.71	ug/L	97		SW846 8260B
	ND	10.0	10.3	ug/L	103	5.7	SW846 8260B
1,2-Dichloroethene (total)	ND	20.0	20.0	ug/L	100		SW846 8260B
	ND	20.0	20.2	ug/L	101	0.89	SW846 8260B
1,2-Dichloropropane	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.6	ug/L	106	1.8	SW846 8260B
Bromodichloromethane	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.5	ug/L	105	0.57	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	10.9	ug/L	109		SW846 8260B
	ND	10.0	11.4	ug/L	114	4.0	SW846 8260B
2-Hexanone	ND	10.0	9.26	ug/L	93		SW846 8260B
	ND	10.0	11.1	ug/L	111	18	SW846 8260B
Chlorobenzene	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.2	ug/L	102	0.98	SW846 8260B
Bromoform	ND	10.0	9.81	ug/L	98		SW846 8260B
	ND	10.0	10.2	ug/L	102	4.0	SW846 8260B
Ethylbenzene	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.7	ug/L	107	0.84	SW846 8260B
Styrene	ND	10.0	11.9	ug/L	119		SW846 8260B
	ND	10.0	12.0	ug/L	120	1.2	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	10.4	ug/L	104	3.8	SW846 8260B
Dibromochloromethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.4	ug/L	104	1.8	SW846 8260B
Allyl chloride	ND	10.0	14.1	ug/L	141		SW846 8260B
		Qualifiers:	T				
	ND	10.0	14.2	ug/L	142	0.77	SW846 8260B
		Qualifiers:	T				

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1259 Work Order #...: MRE7H1AL-MS Matrix.....: WATER
MS Lot-Sample #: F2C150414-001 MRE7H1AM-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.7	ug/L	107	2.9	SW846 8260B
1,2-Dibromoethane	ND	10.0	10.8	ug/L	108		SW846 8260B
	ND	10.0	10.7	ug/L	107	0.74	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	10.0	9.69	ug/L	97		SW846 8260B
	ND	10.0	10.1	ug/L	101	4.5	SW846 8260B
Dichlorodifluoromethane (Freon 12)	ND	10.0	9.16	ug/L	92		SW846 8260B
	ND	10.0	9.93	ug/L	99	8.1	SW846 8260B
Ethyl methacrylate	ND	10.0	7.90	ug/L	79		SW846 8260B
	ND	10.0	8.48	ug/L	85	7.1	SW846 8260B
Methyl methacrylate	ND	10.0	9.39	ug/L	94		SW846 8260B
	ND	10.0	9.72	ug/L	97	3.4	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.1	ug/L	101	0.59	SW846 8260B
Trichlorofluoromethane	ND	10.0	9.82	ug/L	98		SW846 8260B
	ND	10.0	10.5	ug/L	105	7.1	SW846 8260B
Acetonitrile	ND	50.0	44.4	ug/L	89		SW846 8260B
	ND	50.0	43.9	ug/L	88	1.2	SW846 8260B
Iodomethane	ND	10.0	8.68	ug/L	87		SW846 8260B
	ND	10.0	8.57	ug/L	86	1.3	SW846 8260B
Vinyl acetate	ND	10.0	8.97	ug/L	90		SW846 8260B
	ND	10.0	9.22	ug/L	92	2.8	SW846 8260B
Acrolein	ND	50.0	50.8	ug/L	102		SW846 8260B
	ND	50.0	56.0	ug/L	112	9.8	SW846 8260B
Isobutanol	ND	200	183	ug/L	91		SW846 8260B
	ND	200	201	ug/L	101	9.7	SW846 8260B
Methacrylonitrile	ND	50.0	50.9	ug/L	102		SW846 8260B
	ND	50.0	53.6	ug/L	107	5.3	SW846 8260B
1,4-Dioxane	ND	200	197	ug/L	99		SW846 8260B
	ND	200	187	ug/L	93	5.5	SW846 8260B
Chloroprene	ND	10.0	9.17	ug/L	92		SW846 8260B
	ND	10.0	9.34	ug/L	93	1.8	SW846 8260B
Dibromomethane	ND	10.0	11.1	ug/L	111		SW846 8260B
	ND	10.0	10.9	ug/L	109	1.7	SW846 8260B
1,2,3-Trichloropropane	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.2	ug/L	102	2.7	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1259 Work Order #...: MRE7H1AL-MS Matrix.....: WATER
MS Lot-Sample #: F2C150414-001 MRE7H1AM-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Vinyl chloride	ND	10.0	9.55	ug/L	96		SW846 8260B
	ND	10.0	11.0	ug/L	110	14	SW846 8260B
Acetone	ND	10.0	9.11	ug/L	91		SW846 8260B
	ND	10.0	9.44	ug/L	94	3.5	SW846 8260B
Methylene chloride	0.35	10.0	9.51	ug/L	92		SW846 8260B
	0.35	10.0	9.64	ug/L	93	1.3	SW846 8260B
Carbon disulfide	ND	10.0	11.2	ug/L	112		SW846 8260B
	ND	10.0	11.3	ug/L	113	1.2	SW846 8260B
1,1-Dichloroethane	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.3	ug/L	103	0.38	SW846 8260B
2-Butanone	ND	10.0	10.7	ug/L	107		SW846 8260B
	ND	10.0	11.3	ug/L	113	5.4	SW846 8260B
Chloroform	1.0	10.0	11.5	ug/L	105		SW846 8260B
	1.0	10.0	11.4	ug/L	104	0.61	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.6	ug/L	106	1.2	SW846 8260B
Propionitrile	ND	50.0	49.8	ug/L	100		SW846 8260B
	ND	50.0	50.0	ug/L	100	0.42	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	9.60	ug/L	96		SW846 8260B
	ND	10.0	9.66	ug/L	97	0.61	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.2	ug/L	102	0.19	SW846 8260B
Carbon tetrachloride	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	9.93	ug/L	99	3.0	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.6	ug/L	106	0.56	SW846 8260B
Benzene	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.6	ug/L	106	0.09	SW846 8260B
Trichloroethene	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.88	ug/L	99	1.6	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	9.52	ug/L	95		SW846 8260B
	ND	10.0	10.6	ug/L	106	11	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.0	ug/L	100	1.3	SW846 8260B
Tetrachloroethene	ND	10.0	9.82	ug/L	98		SW846 8260B
	ND	10.0	9.93	ug/L	99	1.1	SW846 8260B
Tetrahydrofuran	ND	50.0	51.8	ug/L	104		SW846 8260B
	ND	50.0	55.7	ug/L	111	7.1	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	9.85	ug/L	98		SW846 8260B
	ND	10.0	10.0	ug/L	100	1.6	SW846 8260B
1-Butanol	ND	100	94.5	ug/L	95		SW846 8260B
	ND	100	105	ug/L	105	11	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1259 **Work Order #...:** MRE7H1AL-MS **Matrix.....:** WATER
MS Lot-Sample #: F2C150414-001 MRE7H1AM-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Toluene	**ND**	**10.0**	**11.0**	**ug/L**	**110**		**SW846 8260B**
	ND	**10.0**	**10.8**	**ug/L**	**108**	**1.3**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	106	(85 - 120)
	108	(85 - 120)
Dibromofluoromethane	101	(85 - 118)
	101	(85 - 118)
1,2-Dichloroethane-d4	103	(80 - 119)
	107	(80 - 119)
4-Bromofluorobenzene	101	(84 - 115)
	105	(84 - 115)

NOTE(S):

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

Bold print denotes control parameters

T Spike sample recovery is outside control limits.

GC/MS SEMI-VOLATILES

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K594

GC/MS Semivolatiles

Lot-Sample #...: F2C150414-001 **Work Order #...:** MRE7H1AN **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12
Prep Date.....: 03/19/12 **Analysis Date..:** 03/28/12
Prep Batch #...: 2079125
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Hexachloropropene	ND	100	ug/L	1.0
N-Nitro-o-toluidine	ND	20	ug/L	1.0
3-Methylphenol & 4-Methylphenol	ND	20	ug/L	2.0
2-Picoline	ND	20	ug/L	2.0
N-Nitrosomethylethylamine	ND	10	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	1.0
Methyl parathion	ND	50	ug/L	1.0
N-Nitrosodiethylamine	ND	10	ug/L	1.1
Ethyl methanesulfonate	ND	10	ug/L	1.0
Phenol	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	1.3
Aniline	ND	10	ug/L	1.3
bis(2-Chloroethyl)-ether	ND	10	ug/L	1.0
2-Chlorophenol	ND	10	ug/L	1.0
1,3-Dichlorobenzene	ND	10	ug/L	1.0
1,4-Dichlorobenzene	ND	10	ug/L	1.0
Benzyl alcohol	ND	10	ug/L	1.0
Hexachlorophene	ND	100	ug/L	10
1,2-Dichlorobenzene	ND	10	ug/L	1.0
2-Methylphenol	ND	10	ug/L	1.0
Acetophenone	ND	10	ug/L	1.1
N-Nitrosopyrrolidine	ND	10	ug/L	1.0
N-Nitrosomorpholine	ND	10	ug/L	1.2
o-Toluidine	ND	20	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	1.0
Hexachloroethane	ND	10	ug/L	1.0
2-Methylnaphthalene	ND	10	ug/L	1.0
Nitrobenzene	ND	10	ug/L	1.1
N-Nitrosopiperidine	ND	10	ug/L	1.0
Isophorone	ND	10	ug/L	1.0
2-Nitrophenol	ND	10	ug/L	1.0
2,4-Dimethylphenol	ND	10	ug/L	1.0
O,O,O-Triethylphosphoro-thioate	ND	50	ug/L	1.1
bis(2-Chloroethoxy) methane	ND	10	ug/L	1.0

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K594

GC/MS Semivolatiles

Lot-Sample #...: F2C150414-001 **Work Order #...:** MRE7H1AN **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	22
2,4-Dichlorophenol	ND	10	ug/L	1.1
1,2,4-Trichlorobenzene	ND	10	ug/L	1.0
Naphthalene	ND	10	ug/L	1.0
2,6-Dichlorophenol	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	2.2
Hexachlorobutadiene	ND	10	ug/L	1.0
p-Phenylene diamine	ND	100	ug/L	1.0
4-Chloro-3-methylphenol	ND	10	ug/L	1.0
Safrole	ND	20	ug/L	1.0
1,2,4,5-Tetrachlorobenzene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	1.0
2,4,6-Trichlorophenol	ND	10	ug/L	1.0
2,4,5-Trichlorophenol	ND	10	ug/L	1.0
2-Chloronaphthalene	ND	10	ug/L	1.0
Isosafrole	ND	20	ug/L	1.3
1,4-Naphthoquinone	ND	50	ug/L	2.3
Dimethyl phthalate	ND	10	ug/L	1.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	1.0
1,3-Dinitrobenzene	ND	10	ug/L	1.0
Acenaphthylene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	2.2
3-Nitroaniline	ND	50	ug/L	1.0
Acenaphthene	ND	10	ug/L	1.0
2,4-Dinitrophenol	ND	50	ug/L	2.0
4-Nitrophenol	ND	50	ug/L	2.0
Dibenzofuran	ND	10	ug/L	1.0
Pentachlorobenzene	ND	10	ug/L	1.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
1-Naphthylamine	ND	10	ug/L	1.2
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	1.2
2-Naphthylamine	ND	10	ug/L	1.0
O,O-Diethyl-O-(2-pyrazinyl) phosphorothioate	ND	50	ug/L	1.0
Diethyl phthalate	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	1.0
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.0

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K594

GC/MS Semivolatiles

Lot-Sample #...: F2C150414-001 Work Order #...: MRE7H1AN Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Nitroaniline	ND	50	ug/L	1.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	1.0
Diphenylamine+N-Nitrosodiphenylamine	ND	10	ug/L	1.0
Azobenzene	ND	10	ug/L	1.0
Tetraethyldithiopyrophosphate	ND	50	ug/L	1.0
1,3,5-Trinitrobenzene	ND	50	ug/L	1.2
Diallate	ND	20	ug/L	2.0
Phorate	ND	50	ug/L	1.0
4-Bromophenyl phenyl ether	ND	10	ug/L	1.0
Phenacetin	ND	20	ug/L	1.0
Dimethoate	ND	20	ug/L	1.0
Hexachlorobenzene	ND	10	ug/L	1.0
Pentachlorophenol	ND	50	ug/L	1.3
Pentachloronitrobenzene	ND	50	ug/L	1.0
4-Aminobiphenyl	ND	50	ug/L	1.0
Pronamide	ND	20	ug/L	1.0
Disulfoton	ND	50	ug/L	1.0
Phenanthrene	ND	10	ug/L	1.0
Anthracene	ND	10	ug/L	1.0
Carbazole	ND	10	ug/L	1.0
Dinoseb	ND	20	ug/L	2.0
4-Nitroquinoline-1-oxide	ND	100	ug/L	5.0
Parathion	ND	50	ug/L	1.0
Methapyrilene	ND	50	ug/L	1.3
Fluoranthene	ND	10	ug/L	1.0
Isodrin	ND	10	ug/L	1.0
Pyrene	ND	10	ug/L	1.0
Aramite 1	ND	20	ug/L	
Aramite 2	ND	20	ug/L	
p-Dimethylaminoazobenzene	ND	20	ug/L	1.0
p-Chlorobenzilate	ND	10	ug/L	1.0
Famphur	ND	100	ug/L	1.7
Kepone	ND	100	ug/L	20
3,3'-Dimethylbenzidine	ND	50	ug/L	2.6
Butyl benzyl phthalate	ND	10	ug/L	1.0
2-Acetylaminofluorene	ND	100	ug/L	1.0
Benzo(a)anthracene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	1.3

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K594

GC/MS Semivolatiles

Lot-Sample #...: F2C150414-001 Work Order #...: MRE7H1AN Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chrysene	ND	10	ug/L	1.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.0
Di-n-butyl phthalate	ND	10	ug/L	1.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	1.0
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	1.0
3-Methylcholanthrene	ND	20	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	1.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Dibenz(a,h)anthracene	ND	10	ug/L	1.0
Tributyl phosphate	ND	10	ug/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	31	(19 - 86)
Phenol-d5	21	(10 - 71)
Nitrobenzene-d5	49	(44 - 100)
2-Fluorobiphenyl	51	(44 - 99)
2,4,6-Tribromophenol	80	(43 - 115)
Terphenyl-d14	84	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2K594

GC/MS Semivolatiles

Lot-Sample #: F2C150414-001 **Work Order #:** MRE7H1AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aldol condensate		9.0 J	M	4.077	ug/L
Unknown		4.6 J	M	6.4358	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K594

GC/MS Semivolatiles

Lot-Sample #...: F2C150414-001 **Work Order #...:** MRE7H2AN **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12
Prep Date.....: 03/19/12 **Analysis Date..:** 03/29/12
Prep Batch #...: 2079125
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyridine	ND	20	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	2.0
2,2'-oxybis (1-Chloropropane)	ND	10	ug/L	1.0
2-Nitroaniline	ND	50	ug/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	33	(19 - 86)
Phenol-d5	23	(10 - 71)
Nitrobenzene-d5	57	(44 - 100)
2-Fluorobiphenyl	57	(44 - 99)
2,4,6-Tribromophenol	75	(43 - 115)
Terphenyl-d14	91	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2K594

GC/MS Semivolatiles

Lot-Sample #: F2C150414-001 **Work Order #:** MRE7H2AN **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 **Work Order #...:** MRG9W1AA **Matrix.....:** WATER
MB Lot-Sample #: F2C190000-125

Prep Date.....: 03/19/12
Analysis Date..: 03/28/12 **Prep Batch #...:** 2079125
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachloropropene	ND	100	ug/L	SW846 8270C
N-Nitro-o-toluidine	ND	20	ug/L	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	20	ug/L	SW846 8270C
2-Picoline	ND	20	ug/L	SW846 8270C
N-Nitrosomethylethylamine	ND	10	ug/L	SW846 8270C
Methyl methanesulfonate	ND	10	ug/L	SW846 8270C
Methyl parathion	ND	50	ug/L	SW846 8270C
N-Nitrosodiethylamine	ND	10	ug/L	SW846 8270C
Ethyl methanesulfonate	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
Pentachloroethane	ND	50	ug/L	SW846 8270C
Aniline	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorophene	ND	100	ug/L	SW846 8270C
Benzyl alcohol	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
N-Nitrosopyrrolidine	ND	10	ug/L	SW846 8270C
N-Nitrosomorpholine	ND	10	ug/L	SW846 8270C
o-Toluidine	ND	20	ug/L	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
N-Nitrosopiperidine	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
O,O,O-Triethylphosphoro-thioate	ND	50	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
alpha,alpha-Dimethylphene	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 **Work Order #...:** MRG9W1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,4-Trichloro-benzene	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
2,6-Dichlorophenol	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
p-Phenylene diamine	ND	100	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
Safrole	ND	20	ug/L	SW846 8270C
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta-diene	ND	50	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
Isosafrole	ND	20	ug/L	SW846 8270C
1,4-Naphthoquinone	ND	50	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-butylamine	ND	10	ug/L	SW846 8270C
1,3-Dinitrobenzene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
Acenaphthene	ND	10	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
Pentachlorobenzene	ND	10	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
1-Naphthylamine	ND	10	ug/L	SW846 8270C
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	SW846 8270C
2-Naphthylamine	ND	10	ug/L	SW846 8270C
O,O-Diethyl-O-(2-pyraziny	ND	50	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
Diphenylamine+N-Nitrosodi	ND	10	ug/L	SW846 8270C
Azobenzene	ND	10	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 Work Order #...: MRG9W1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Tetraethyldithiopyro-phosphate	ND	50	ug/L	SW846 8270C
1,3,5-Trinitrobenzene	ND	50	ug/L	SW846 8270C
Diallate	ND	20	ug/L	SW846 8270C
Phorate	ND	50	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Phenacetin	ND	20	ug/L	SW846 8270C
Dimethoate	ND	20	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Pentachloronitrobenzene	ND	50	ug/L	SW846 8270C
4-Aminobiphenyl	ND	50	ug/L	SW846 8270C
Pronamide	ND	20	ug/L	SW846 8270C
Disulfoton	ND	50	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
Dinoseb	ND	20	ug/L	SW846 8270C
4-Nitroquinoline-1-oxide	ND	100	ug/L	SW846 8270C
Parathion	ND	50	ug/L	SW846 8270C
Methapyrilene	ND	50	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Isodrin	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Aramite 1	ND	20	ug/L	SW846 8270C
Aramite 2	ND	20	ug/L	SW846 8270C
p-Dimethylaminoazobenzene	ND	20	ug/L	SW846 8270C
p-Chlorobenzilate	ND	10	ug/L	SW846 8270C
Famphur	ND	100	ug/L	SW846 8270C
Kepone	ND	100	ug/L	SW846 8270C
3,3'-Dimethylbenzidine	ND	50	ug/L	SW846 8270C
Butyl benzyl phthalate	**1.2 J**	**10**	**ug/L**	**SW846 8270C**
2-Acetylaminofluorene	ND	100	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 **Work Order #...:** MRG9W1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
3-Methylcholanthrene	ND	20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Tributyl phosphate	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	37	(19 - 86)
Phenol-d5	25	(10 - 71)
Nitrobenzene-d5	59	(44 - 100)
2-Fluorobiphenyl	54	(44 - 99)
2,4,6-Tribromophenol	88	(43 - 115)
Terphenyl-d14	85	(45 - 131)

NOTE(S):

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

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

Method Blank Report

GC/MS Semivolatiles

Lot-Sample #: F2C190000-125 B **Work Order #:** MRG9W1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		15 J	M	3.5154	ug/L
Unknown aldol condensate		34 J	M	4.0823	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 **Work Order #...:** MRG9W1AD **Matrix.....:** WATER
MB Lot-Sample #: F2C190000-125

Prep Date.....: 03/19/12
Analysis Date..: 03/29/12 **Prep Batch #...:** 2079125
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Pyridine	ND	20	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	ug/L	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	41	(19 - 86)
Phenol-d5	29	(10 - 71)
Nitrobenzene-d5	71	(44 - 100)
2-Fluorobiphenyl	62	(44 - 99)
2,4,6-Tribromophenol	75	(43 - 115)
Terphenyl-d14	97	(45 - 131)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 Work Order #...: MRG9W1AC Matrix.....: WATER
LCS Lot-Sample#: F2C190000-125
Prep Date.....: 03/19/12 Analysis Date..: 03/28/12
Prep Batch #...: 2079125
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
3-Methylphenol & 4-Methylphenol	100	56.3	ug/L	56	SW846 8270C
Phenol	100	26.4	ug/L	26	SW846 8270C
bis(2-Chloroethyl)-ether	100	60.7	ug/L	61	SW846 8270C
2-Chlorophenol	100	61.0	ug/L	61	SW846 8270C
1,3-Dichlorobenzene	100	55.7	ug/L	56	SW846 8270C
1,4-Dichlorobenzene	100	55.7	ug/L	56	SW846 8270C
1,2-Dichlorobenzene	100	57.6	ug/L	58	SW846 8270C
2-Methylphenol	100	54.6	ug/L	55	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	64.3	ug/L	64	SW846 8270C
Hexachloroethane	100	54.3	ug/L	54	SW846 8270C
2-Methylnaphthalene	100	64.7	ug/L	65	SW846 8270C
Nitrobenzene	100	75.9	ug/L	76	SW846 8270C
Isophorone	100	73.9	ug/L	74	SW846 8270C
2-Nitrophenol	100	85.8	ug/L	86	SW846 8270C
2,4-Dimethylphenol	100	77.5	ug/L	77	SW846 8270C
bis(2-Chloroethoxy) methane	100	61.6	ug/L	62	SW846 8270C
2,4-Dichlorophenol	100	70.4	ug/L	70	SW846 8270C
1,2,4-Trichloro-benzene	100	65.0	ug/L	65	SW846 8270C
Naphthalene	100	61.7	ug/L	62	SW846 8270C
4-Chloroaniline	100	48.5	ug/L	49	SW846 8270C
Hexachlorobutadiene	100	65.6	ug/L	66	SW846 8270C
4-Chloro-3-methylphenol	100	66.3	ug/L	66	SW846 8270C
Hexachlorocyclopenta-diene	100	78.4	ug/L	78	SW846 8270C
2,4,6-Trichloro-phenol	100	73.9	ug/L	74	SW846 8270C
2,4,5-Trichloro-phenol	100	77.5	ug/L	78	SW846 8270C
2-Chloronaphthalene	100	63.9	ug/L	64	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 Work Order #...: MRG9W1AC Matrix.....: WATER
LCS Lot-Sample#: F2C190000-125

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Dimethyl phthalate	100	74.2	ug/L	74	SW846 8270C
Acenaphthylene	100	67.2	ug/L	67	SW846 8270C
2,6-Dinitrotoluene	100	77.8	ug/L	78	SW846 8270C
3-Nitroaniline	100	55.7	ug/L	56	SW846 8270C
Acenaphthene	100	66.5	ug/L	66	SW846 8270C
2,4-Dinitrophenol	100	76.2	ug/L	76	SW846 8270C
4-Nitrophenol	100	26.5	ug/L	26	SW846 8270C
Dibenzofuran	100	66.8	ug/L	67	SW846 8270C
2,4-Dinitrotoluene	100	77.9	ug/L	78	SW846 8270C
Diethyl phthalate	100	73.5	ug/L	74	SW846 8270C
Fluorene	100	73.1	ug/L	73	SW846 8270C
4-Chlorophenyl phenyl ether	100	75.0	ug/L	75	SW846 8270C
4-Nitroaniline	100	66.5	ug/L	66	SW846 8270C
4,6-Dinitro-2-methylphenol	100	70.0	ug/L	70	SW846 8270C
Diphenylamine+N-Nitrosodi	100	82.6	ug/L	83	SW846 8270C
4-Bromophenyl phenyl ether	100	74.6	ug/L	75	SW846 8270C
Hexachlorobenzene	100	79.6	ug/L	80	SW846 8270C
Pentachlorophenol	100	79.3	ug/L	79	SW846 8270C
Phenanthrene	100	72.5	ug/L	73	SW846 8270C
Anthracene	100	72.9	ug/L	73	SW846 8270C
Carbazole	100	77.3	ug/L	77	SW846 8270C
Fluoranthene	100	74.1	ug/L	74	SW846 8270C
Pyrene	100	79.6	ug/L	80	SW846 8270C
Butyl benzyl phthalate	100	76.5	ug/L	77	SW846 8270C
Benzo(a)anthracene	100	84.3	ug/L	84	SW846 8270C
3,3'-Dichlorobenzidine	100	57.3	ug/L	57	SW846 8270C
Chrysene	100	75.8	ug/L	76	SW846 8270C
bis(2-Ethylhexyl) phthalate	100	69.4	ug/L	69	SW846 8270C
Di-n-butyl phthalate	100	67.9	ug/L	68	SW846 8270C
Di-n-octyl phthalate	100	68.3	ug/L	68	SW846 8270C
Benzo(b)fluoranthene	100	80.5	ug/L	81	SW846 8270C
Benzo(k)fluoranthene	100	80.0	ug/L	80	SW846 8270C
Benzo(a)pyrene	100	74.1	ug/L	74	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 **Work Order #...:** MRG9W1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2C190000-125

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Indeno(1,2,3-cd)pyrene	**100**	**83.5**	**ug/L**	**84**	**SW846 8270C**
Benzo(ghi)perylene	**100**	**84.4**	**ug/L**	**84**	**SW846 8270C**
Dibenz(a,h)anthracene	**100**	**83.8**	**ug/L**	**84**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	41	(29 - 62)
Phenol-d5	28	(20 - 42)
Nitrobenzene-d5	80	(51 - 98)
2-Fluorobiphenyl	63	(50 - 93)
2,4,6-Tribromophenol	100	(54 - 109)
Terphenyl-d14	96	(60 - 121)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 **Work Order #...:** MRG9W1AE **Matrix.....:** WATER
LCS Lot-Sample#: F2C190000-125
Prep Date.....: 03/19/12 **Analysis Date..:** 03/29/12
Prep Batch #...: 2079125
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,2'-oxybis (1-Chloropropane)	**100**	**71.5**	**ug/L**	**71**	**SW846 8270C**
2-Nitroaniline	**100**	**79.1**	**ug/L**	**79**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	45	(29 - 62)
Phenol-d5	31	(20 - 42)
Nitrobenzene-d5	76	(51 - 98)
2-Fluorobiphenyl	69	(50 - 93)
2,4,6-Tribromophenol	81	(54 - 109)
Terphenyl-d14	95	(60 - 121)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 Work Order #...: MRE7H1AP-MS Matrix.....: WATER
MS Lot-Sample #: F2C150414-001 MRE7H1AQ-MSD
Date Sampled...: 03/14/12 Date Received..: 03/15/12
Prep Date.....: 03/19/12 Analysis Date..: 03/28/12
Prep Batch #...: 2079125
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
3-Methylphenol & 4-Methylphenol	ND	189	127	ug/L	67		SW846 8270C
	ND	191	125	ug/L	65	1.6	SW846 8270C
Phenol	ND	189	73.2	ug/L	39		SW846 8270C
	ND	191	71.4	ug/L	37	2.5	SW846 8270C
bis(2-Chloroethyl)-ether	ND	189	124	ug/L	65		SW846 8270C
	ND	191	114	ug/L	59	8.4	SW846 8270C
2-Chlorophenol	ND	189	126	ug/L	67		SW846 8270C
	ND	191	120	ug/L	63	4.9	SW846 8270C
1,3-Dichlorobenzene	ND	189	119	ug/L	63		SW846 8270C
	ND	191	104	ug/L	54	13	SW846 8270C
1,4-Dichlorobenzene	ND	189	117	ug/L	62		SW846 8270C
	ND	191	104	ug/L	54	12	SW846 8270C
1,2-Dichlorobenzene	ND	189	120	ug/L	64		SW846 8270C
	ND	191	107	ug/L	56	11	SW846 8270C
2-Methylphenol	ND	189	119	ug/L	63		SW846 8270C
	ND	191	115	ug/L	60	3.1	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	189	128	ug/L	68		SW846 8270C
	ND	191	125	ug/L	65	2.7	SW846 8270C
Hexachloroethane	ND	189	118	ug/L	62		SW846 8270C
	ND	191	104	ug/L	54	12	SW846 8270C
Nitrobenzene	ND	189	120	ug/L	64		SW846 8270C
	ND	191	115	ug/L	60	4.8	SW846 8270C
2-Methylnaphthalene	ND	189	128	ug/L	67		SW846 8270C
	ND	191	125	ug/L	65	2.1	SW846 8270C
Isophorone	ND	189	116	ug/L	61		SW846 8270C
	ND	191	112	ug/L	59	3.0	SW846 8270C
2-Nitrophenol	ND	189	136	ug/L	72		SW846 8270C
	ND	191	132	ug/L	69	3.6	SW846 8270C
2,4-Dimethylphenol	ND	189	123	ug/L	65		SW846 8270C
	ND	191	121	ug/L	63	1.2	SW846 8270C
bis(2-Chloroethoxy) methane	ND	189	128	ug/L	67		SW846 8270C
	ND	191	123	ug/L	64	3.9	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 Work Order #...: MRE7H1AP-MS Matrix.....: WATER
MS Lot-Sample #: F2C150414-001 MRE7H1AQ-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dichlorophenol	ND	189	134	ug/L	71		SW846 8270C
	ND	191	131	ug/L	68	2.3	SW846 8270C
1,2,4-Trichloro-benzene	ND	189	127	ug/L	67		SW846 8270C
	ND	191	120	ug/L	63	5.2	SW846 8270C
Naphthalene	ND	189	124	ug/L	65		SW846 8270C
	ND	191	119	ug/L	62	4.4	SW846 8270C
4-Chloroaniline	ND	189	88.6	ug/L	47		SW846 8270C
	ND	191	96.8	ug/L	51	8.9	SW846 8270C
Hexachlorobutadiene	ND	189	125	ug/L	66		SW846 8270C
	ND	191	117	ug/L	61	6.6	SW846 8270C
4-Chloro-3-methylphenol	ND	189	129	ug/L	68		SW846 8270C
	ND	191	131	ug/L	69	1.7	SW846 8270C
Hexachlorocyclopenta-diene	ND	189	150	ug/L	79		SW846 8270C
	ND	191	147	ug/L	77	2.5	SW846 8270C
2,4,6-Trichloro-phenol	ND	189	138	ug/L	73		SW846 8270C
	ND	191	138	ug/L	72	0.07	SW846 8270C
2,4,5-Trichloro-phenol	ND	189	143	ug/L	76		SW846 8270C
	ND	191	144	ug/L	75	0.20	SW846 8270C
2-Chloronaphthalene	ND	189	129	ug/L	68		SW846 8270C
	ND	191	126	ug/L	66	2.7	SW846 8270C
Dimethyl phthalate	ND	189	139	ug/L	74		SW846 8270C
	ND	191	141	ug/L	74	1.4	SW846 8270C
Acenaphthylene	ND	189	133	ug/L	70		SW846 8270C
	ND	191	133	ug/L	69	0.37	SW846 8270C
2,6-Dinitrotoluene	ND	189	147	ug/L	77		SW846 8270C
	ND	191	150	ug/L	78	2.5	SW846 8270C
3-Nitroaniline	ND	189	115	ug/L	61		SW846 8270C
	ND	191	125	ug/L	65	8.4	SW846 8270C
Acenaphthene	ND	189	133	ug/L	70		SW846 8270C
	ND	191	132	ug/L	69	0.52	SW846 8270C
2,4-Dinitrophenol	ND	189	151	ug/L	80		SW846 8270C
	ND	191	157	ug/L	82	3.9	SW846 8270C
4-Nitrophenol	ND	189	76.6	ug/L	40		SW846 8270C
	ND	191	79.5	ug/L	41	3.7	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 Work Order #...: MRE7H1AP-MS Matrix.....: WATER
MS Lot-Sample #: F2C150414-001 MRE7H1AQ-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Dibenzofuran	ND	189	128	ug/L	68		SW846 8270C
	ND	191	129	ug/L	67	0.38	SW846 8270C
2,4-Dinitrotoluene	ND	189	145	ug/L	77		SW846 8270C
	ND	191	149	ug/L	78	2.4	SW846 8270C
Diethyl phthalate	ND	189	140	ug/L	74		SW846 8270C
	ND	191	142	ug/L	74	1.3	SW846 8270C
Fluorene	ND	189	138	ug/L	73		SW846 8270C
	ND	191	139	ug/L	73	1.1	SW846 8270C
4-Chlorophenyl phenyl ether	ND	189	141	ug/L	74		SW846 8270C
	ND	191	141	ug/L	73	0.14	SW846 8270C
4-Nitroaniline	ND	189	137	ug/L	73		SW846 8270C
	ND	191	142	ug/L	74	3.6	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	189	148	ug/L	78		SW846 8270C
	ND	191	153	ug/L	80	3.4	SW846 8270C
Diphenylamine+N-Nitrosodi	ND	189	170	ug/L	90		SW846 8270C
	ND	191	174	ug/L	91	2.0	SW846 8270C
4-Bromophenyl phenyl ether	ND	189	148	ug/L	78		SW846 8270C
	ND	191	151	ug/L	79	2.0	SW846 8270C
Hexachlorobenzene	ND	189	153	ug/L	81		SW846 8270C
	ND	191	157	ug/L	82	2.3	SW846 8270C
Pentachlorophenol	ND	189	154	ug/L	81		SW846 8270C
	ND	191	159	ug/L	83	3.3	SW846 8270C
Phenanthrene	ND	189	137	ug/L	72		SW846 8270C
	ND	191	139	ug/L	73	2.0	SW846 8270C
Anthracene	ND	189	138	ug/L	73		SW846 8270C
	ND	191	142	ug/L	74	2.6	SW846 8270C
Carbazole	ND	189	141	ug/L	75		SW846 8270C
	ND	191	145	ug/L	76	2.9	SW846 8270C
Fluoranthene	ND	189	145	ug/L	77		SW846 8270C
	ND	191	150	ug/L	78	3.0	SW846 8270C
Pyrene	ND	189	141	ug/L	75		SW846 8270C
	ND	191	143	ug/L	75	1.4	SW846 8270C
Butyl benzyl phthalate	ND	189	137	ug/L	72		SW846 8270C
	ND	191	139	ug/L	73	1.3	SW846 8270C
Benzo(a)anthracene	ND	189	162	ug/L	86		SW846 8270C
	ND	191	165	ug/L	86	1.7	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 Work Order #...: MRE7H1AP-MS Matrix.....: WATER
MS Lot-Sample #: F2C150414-001 MRE7H1AQ-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
3,3'-Dichlorobenzidine	ND	189	109	ug/L	57		SW846 8270C
	ND	191	120	ug/L	62	9.6	SW846 8270C
Chrysene	ND	189	146	ug/L	77		SW846 8270C
	ND	191	150	ug/L	78	2.6	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	189	142	ug/L	75		SW846 8270C
	ND	191	144	ug/L	75	1.3	SW846 8270C
Di-n-butyl phthalate	ND	189	139	ug/L	73		SW846 8270C
	ND	191	142	ug/L	74	2.4	SW846 8270C
Di-n-octyl phthalate	ND	189	140	ug/L	74		SW846 8270C
	ND	191	143	ug/L	75	1.8	SW846 8270C
Benzo(b)fluoranthene	ND	189	148	ug/L	78		SW846 8270C
	ND	191	156	ug/L	81	4.9	SW846 8270C
Benzo(k)fluoranthene	ND	189	154	ug/L	81		SW846 8270C
	ND	191	154	ug/L	81	0.13	SW846 8270C
Benzo(a)pyrene	ND	189	142	ug/L	75		SW846 8270C
	ND	191	145	ug/L	76	2.1	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	189	158	ug/L	83		SW846 8270C
	ND	191	159	ug/L	83	0.94	SW846 8270C
Benzo(ghi)perylene	ND	189	161	ug/L	85		SW846 8270C
	ND	191	163	ug/L	85	0.92	SW846 8270C
Dibenz(a,h)anthracene	ND	189	160	ug/L	84		SW846 8270C
	ND	191	163	ug/L	85	2.1	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	55	(19 - 86)
	51	(19 - 86)
Phenol-d5	41	(10 - 71)
	39	(10 - 71)
Nitrobenzene-d5	67	(44 - 100)
	63	(44 - 100)
2-Fluorobiphenyl	68	(44 - 99)
	66	(44 - 99)
2,4,6-Tribromophenol	90	(43 - 115)
	90	(43 - 115)
Terphenyl-d14	87	(45 - 131)
	88	(45 - 131)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2C150414 **Work Order #...:** MRE7H1AU-MS **Matrix.....:** WATER
MS Lot-Sample #: F2C150414-001 MRE7H1AV-MSD
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12
Prep Date.....: 03/19/12 **Analysis Date..:** 03/29/12
Prep Batch #...: 2079125
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,2'-oxybis (1-Chloropropane)		**189**	**137**	**ug/L**	**73**		**SW846 8270C**
		191	**122**	**ug/L**	**64**	**12**	**SW846 8270C**
2-Nitroaniline		**189**	**149**	**ug/L**	**79**		**SW846 8270C**
		191	**146**	**ug/L**	**76**	**1.9**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	59	(19 - 86)
	55	(19 - 86)
Phenol-d5	45	(10 - 71)
	44	(10 - 71)
Nitrobenzene-d5	79	(44 - 100)
	72	(44 - 100)
2-Fluorobiphenyl	76	(44 - 99)
	72	(44 - 99)
2,4,6-Tribromophenol	84	(43 - 115)
	86	(43 - 115)
Terphenyl-d14	100	(45 - 131)
	97	(45 - 131)

NOTE(S):

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

Bold print denotes control parameters

PESTICIDES

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K594

GC Semivolatiles

Lot-Sample #...: F2C150414-001 **Work Order #...:** MRE7H1AC **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12
Prep Date.....: 03/19/12 **Analysis Date..:** 03/20/12
Prep Batch #...: 2079115
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.010
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.013
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.010
Chlordane (technical)	ND	0.50	ug/L	0.23
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.010
Dieldrin	ND	0.050	ug/L	0.010
Endosulfan I	ND	0.050	ug/L	0.010
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.017
Endrin aldehyde	ND	0.050	ug/L	0.010
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.017
Methoxychlor	ND	0.10	ug/L	0.010
Toxaphene	ND	2.0	ug/L	0.66

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	97	(56 - 136)
Decachlorobiphenyl	81	(74 - 127)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: SL1259 **Work Order #...:** MRG9X1AA **Matrix.....:** WATER
MB Lot-Sample #: F2C190000-115

Prep Date.....: 03/19/12
Analysis Date..: 03/20/12 **Prep Batch #...:** 2079115
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	0.050	ug/L	SW846 8081A
alpha-BHC	ND	0.050	ug/L	SW846 8081A
beta-BHC	ND	0.050	ug/L	SW846 8081A
delta-BHC	ND	0.050	ug/L	SW846 8081A
gamma-BHC (Lindane)	ND	0.050	ug/L	SW846 8081A
Chlordane (technical)	ND	0.50	ug/L	SW846 8081A
4,4'-DDD	ND	0.050	ug/L	SW846 8081A
4,4'-DDE	ND	0.050	ug/L	SW846 8081A
4,4'-DDT	ND	0.050	ug/L	SW846 8081A
Dieldrin	ND	0.050	ug/L	SW846 8081A
Endosulfan I	ND	0.050	ug/L	SW846 8081A
Endosulfan II	ND	0.050	ug/L	SW846 8081A
Endosulfan sulfate	ND	0.050	ug/L	SW846 8081A
Endrin	ND	0.050	ug/L	SW846 8081A
Endrin aldehyde	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
Methoxychlor	ND	0.10	ug/L	SW846 8081A
Toxaphene	ND	2.0	ug/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	100	(56 - 136)
Decachlorobiphenyl	88	(74 - 127)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1259 Work Order #...: MRG9X1AC Matrix.....: WATER
LCS Lot-Sample#: F2C190000-115
Prep Date.....: 03/19/12 Analysis Date..: 03/20/12
Prep Batch #...: 2079115
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aldrin	0.500	0.506	ug/L	101	SW846 8081A
alpha-BHC	0.500	0.538	ug/L	108	SW846 8081A
beta-BHC	0.500	0.495	ug/L	99	SW846 8081A
delta-BHC	0.500	0.578	ug/L	116	SW846 8081A
gamma-BHC (Lindane)	0.500	0.510	ug/L	102	SW846 8081A
4,4'-DDD	0.500	0.531	ug/L	106	SW846 8081A
4,4'-DDE	0.500	0.494	ug/L	99	SW846 8081A
4,4'-DDT	0.500	0.500	ug/L	100	SW846 8081A
Dieldrin	0.500	0.525	ug/L	105	SW846 8081A
Endosulfan I	0.500	0.455	ug/L	91	SW846 8081A
Endosulfan II	0.500	0.460	ug/L	92	SW846 8081A
Endosulfan sulfate	0.500	0.505	ug/L	101	SW846 8081A
Endrin	0.500	0.519	ug/L	104	SW846 8081A
Endrin aldehyde	0.500	0.480	ug/L	96	SW846 8081A
Heptachlor	0.500	0.625	ug/L	125	SW846 8081A
Heptachlor epoxide	0.500	0.525	ug/L	105	SW846 8081A
Methoxychlor	0.500	0.504	ug/L	101	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(66 - 127)
Decachlorobiphenyl	82	(76 - 120)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1259 Work Order #...: MRE7H1AG-MS Matrix.....: WATER
MS Lot-Sample #: F2C150414-001 MRE7H1AH-MSD
Date Sampled...: 03/14/12 Date Received..: 03/15/12
Prep Date.....: 03/19/12 Analysis Date..: 03/20/12
Prep Batch #...: 2079115
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aldrin	ND	0.948	0.975	ug/L	103		SW846 8081A
	ND	0.954	0.932	ug/L	98	4.5	SW846 8081A
alpha-BHC	ND	0.948	1.04	ug/L	110		SW846 8081A
	ND	0.954	1.04	ug/L	109	0.48	SW846 8081A
beta-BHC	ND	0.948	0.965	ug/L	102		SW846 8081A
	ND	0.954	0.968	ug/L	101	0.31	SW846 8081A
delta-BHC	ND	0.948	1.31	ug/L	139		SW846 8081A
	ND	0.954	1.22	ug/L	128	7.2	SW846 8081A
gamma-BHC (Lindane)	ND	0.948	0.984	ug/L	104		SW846 8081A
	ND	0.954	0.988	ug/L	104	0.40	SW846 8081A
4,4'-DDD	ND	0.948	1.06	ug/L	112		SW846 8081A
	ND	0.954	1.06	ug/L	111	0.37	SW846 8081A
4,4'-DDE	ND	0.948	0.967	ug/L	102		SW846 8081A
	ND	0.954	0.988	ug/L	104	2.1	SW846 8081A
4,4'-DDT	ND	0.948	1.00	ug/L	106		SW846 8081A
	ND	0.954	0.992	ug/L	104	1.0	SW846 8081A
Dieldrin	ND	0.948	1.03	ug/L	108		SW846 8081A
	ND	0.954	1.04	ug/L	109	1.2	SW846 8081A
Endosulfan I	ND	0.948	0.877	ug/L	93		SW846 8081A
	ND	0.954	0.878	ug/L	92	0.11	SW846 8081A
Endosulfan II	ND	0.948	0.872	ug/L	92		SW846 8081A
	ND	0.954	0.871	ug/L	91	0.11	SW846 8081A
Endosulfan sulfate	ND	0.948	1.00	ug/L	106		SW846 8081A
	ND	0.954	1.01	ug/L	105	0.19	SW846 8081A
Endrin	ND	0.948	1.12	ug/L	118		SW846 8081A
	ND	0.954	1.12	ug/L	118	0.53	SW846 8081A
Endrin aldehyde	ND	0.948	0.989	ug/L	104		SW846 8081A
	ND	0.954	0.972	ug/L	102	1.7	SW846 8081A
Heptachlor	ND	0.948	1.20	ug/L	126		SW846 8081A
	ND	0.954	1.18	ug/L	124	1.3	SW846 8081A
Heptachlor epoxide	ND	0.948	1.03	ug/L	109		SW846 8081A
	ND	0.954	1.03	ug/L	108	0.0	SW846 8081A
Methoxychlor	ND	0.948	0.974	ug/L	103		SW846 8081A
	ND	0.954	0.941	ug/L	99	3.4	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	96	(56 - 136)
	99	(56 - 136)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1259 **Work Order #...:** MRE7H1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2C150414-001 MRE7H1AH-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	89	(74 - 127)
	87	(74 - 127)

NOTE(S):

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

Bold print denotes control parameters

PAHs

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFM2

HPLC

Lot-Sample #...: F2C150413-001 **Work Order #...:** MRE7A2AC **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12
Prep Date.....: 03/27/12 **Analysis Date..:** 03/27/12
Prep Batch #...: 2087065
Dilution Factor: 1 **Method.....:** SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.65
Acenaphthylene	ND	5.0	ug/L	0.44
Anthracene	**0.053 J,S**	**1.0**	**ug/L**	**0.020**
Benzo(a)anthracene	ND	1.0	ug/L	0.063
Benzo(b)fluoranthene	ND	1.0	ug/L	0.051
Benzo(k)fluoranthene	ND	1.0	ug/L	0.074
Benzo(ghi)perylene	ND	1.0	ug/L	0.16
Benzo(a)pyrene	ND	1.0	ug/L	0.075
Chrysene	ND	1.0	ug/L	0.035
Dibenz(a,h)anthracene	ND	1.0	ug/L	0.15
Fluoranthene	ND	1.0	ug/L	0.18
Fluorene	ND	1.0	ug/L	0.071
Indeno(1,2,3-cd)pyrene	ND	1.0	ug/L	0.14
Naphthalene	ND	5.0	ug/L	0.34
Phenanthrene	ND	1.0	ug/L	0.30
Pyrene	ND	1.0	ug/L	0.083

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	87	(60 - 98)

NOTE(S):

J Estimated result. Result is less than RL.

S Positive analyte detection appears questionable during spectral confirmation.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFM8

HPLC

Lot-Sample #...: F2C150413-002 **Work Order #...:** MRE7E2AC **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12
Prep Date.....: 03/27/12 **Analysis Date..:** 03/27/12
Prep Batch #...: 2087065
Dilution Factor: 1 **Method.....:** SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.65
Acenaphthylene	ND	5.0	ug/L	0.44
Anthracene	ND	1.0	ug/L	0.020
Benzo(a)anthracene	ND	1.0	ug/L	0.063
Benzo(b)fluoranthene	ND	1.0	ug/L	0.051
Benzo(k)fluoranthene	ND	1.0	ug/L	0.074
Benzo(ghi)perylene	ND	1.0	ug/L	0.16
Benzo(a)pyrene	ND	1.0	ug/L	0.075
Chrysene	ND	1.0	ug/L	0.035
Dibenz(a,h)anthracene	ND	1.0	ug/L	0.15
Fluoranthene	ND	1.0	ug/L	0.18
Fluorene	ND	1.0	ug/L	0.071
Indeno(1,2,3-cd)pyrene	ND	1.0	ug/L	0.14
Naphthalene	ND	5.0	ug/L	0.34
Phenanthrene	ND	1.0	ug/L	0.30
Pyrene	ND	1.0	ug/L	0.083

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	84	(60 - 98)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFN2

HPLC

Lot-Sample #...: F2C150413-003 **Work Order #...:** MRE7F2AC **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12
Prep Date.....: 03/27/12 **Analysis Date..:** 03/27/12
Prep Batch #...: 2087065
Dilution Factor: 1 **Method.....:** SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.65
Acenaphthylene	ND	5.0	ug/L	0.44
Anthracene	ND	1.0	ug/L	0.020
Benzo(a)anthracene	ND	1.0	ug/L	0.063
Benzo(b)fluoranthene	ND	1.0	ug/L	0.051
Benzo(k)fluoranthene	ND	1.0	ug/L	0.074
Benzo(ghi)perylene	**0.16 J,S**	**1.0**	**ug/L**	**0.16**
Benzo(a)pyrene	ND	1.0	ug/L	0.075
Chrysene	ND	1.0	ug/L	0.035
Dibenz(a,h)anthracene	ND	1.0	ug/L	0.15
Fluoranthene	ND	1.0	ug/L	0.18
Fluorene	ND	1.0	ug/L	0.071
Indeno(1,2,3-cd)pyrene	ND	1.0	ug/L	0.14
Naphthalene	ND	5.0	ug/L	0.34
Phenanthrene	ND	1.0	ug/L	0.30
Pyrene	ND	1.0	ug/L	0.083

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	90	(60 - 98)

NOTE(S):

J Estimated result. Result is less than RL.

S Positive analyte detection appears questionable during spectral confirmation.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFR2

HPLC

Lot-Sample #...: F2C150413-004 **Work Order #...:** MRE7G2AC **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12
Prep Date.....: 03/27/12 **Analysis Date..:** 03/27/12
Prep Batch #...: 2087065
Dilution Factor: 1 **Method.....:** SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.65
Acenaphthylene	ND	5.0	ug/L	0.44
Anthracene	**0.054 J,S**	**1.0**	**ug/L**	**0.020**
Benzo(a)anthracene	ND	1.0	ug/L	0.063
Benzo(b)fluoranthene	ND	1.0	ug/L	0.051
Benzo(k)fluoranthene	ND	1.0	ug/L	0.074
Benzo(ghi)perylene	ND	1.0	ug/L	0.16
Benzo(a)pyrene	ND	1.0	ug/L	0.075
Chrysene	ND	1.0	ug/L	0.035
Dibenz(a,h)anthracene	ND	1.0	ug/L	0.15
Fluoranthene	ND	1.0	ug/L	0.18
Fluorene	ND	1.0	ug/L	0.071
Indeno(1,2,3-cd)pyrene	ND	1.0	ug/L	0.14
Naphthalene	ND	5.0	ug/L	0.34
Phenanthrene	ND	1.0	ug/L	0.30
Pyrene	ND	1.0	ug/L	0.083

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	85	(60 - 98)

NOTE(S):

J Estimated result. Result is less than RL.

S Positive analyte detection appears questionable during spectral confirmation.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K594

HPLC

Lot-Sample #...: F2C150414-001 **Work Order #...:** MRE7H2AD **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12
Prep Date.....: 03/27/12 **Analysis Date..:** 03/27/12
Prep Batch #...: 2087065
Dilution Factor: 1 **Method.....:** SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.65
Acenaphthylene	ND	5.0	ug/L	0.44
Anthracene	ND	1.0	ug/L	0.020
Benzo(a)anthracene	ND	1.0	ug/L	0.063
Benzo(b)fluoranthene	ND	1.0	ug/L	0.051
Benzo(k)fluoranthene	ND	1.0	ug/L	0.074
Benzo(ghi)perylene	ND	1.0	ug/L	0.16
Benzo(a)pyrene	ND	1.0	ug/L	0.075
Chrysene	ND	1.0	ug/L	0.035
Dibenz(a,h)anthracene	ND	1.0	ug/L	0.15
Fluoranthene	ND	1.0	ug/L	0.18
Fluorene	ND	1.0	ug/L	0.071
Indeno(1,2,3-cd)pyrene	ND	1.0	ug/L	0.14
Naphthalene	ND	5.0	ug/L	0.34
Phenanthrene	ND	1.0	ug/L	0.30
Pyrene	ND	1.0	ug/L	0.083

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	87	(60 - 98)

METHOD BLANK REPORT

HPLC

Client Lot #...: SL1259 **Work Order #...:** MRL171AA **Matrix.....:** WATER
MB Lot-Sample #: F2C270000-065

Prep Date.....: 03/27/12
Analysis Date..: 03/27/12 **Prep Batch #...:** 2087065
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	5.0	ug/L	SW846 8310
Acenaphthylene	ND	5.0	ug/L	SW846 8310
Anthracene	ND	1.0	ug/L	SW846 8310
Benzo(a)anthracene	ND	1.0	ug/L	SW846 8310
Benzo(b)fluoranthene	ND	1.0	ug/L	SW846 8310
Benzo(k)fluoranthene	ND	1.0	ug/L	SW846 8310
Benzo(ghi)perylene	ND	1.0	ug/L	SW846 8310
Benzo(a)pyrene	ND	1.0	ug/L	SW846 8310
Chrysene	ND	1.0	ug/L	SW846 8310
Dibenz(a,h)anthracene	ND	1.0	ug/L	SW846 8310
Fluoranthene	ND	1.0	ug/L	SW846 8310
Fluorene	ND	1.0	ug/L	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	1.0	ug/L	SW846 8310
Naphthalene	ND	5.0	ug/L	SW846 8310
Phenanthrene	ND	1.0	ug/L	SW846 8310
Pyrene	ND	1.0	ug/L	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	77	(60 - 98)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: SL1259 Work Order #...: MRL171AC Matrix.....: WATER
LCS Lot-Sample#: F2C270000-065
Prep Date.....: 03/27/12 Analysis Date..: 03/27/12
Prep Batch #...: 2087065
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	20.0	15.8	ug/L	79	SW846 8310
Acenaphthylene	40.0	31.4	ug/L	78	SW846 8310
Anthracene	2.00	1.63	ug/L	82	SW846 8310
Benzo(a)anthracene	2.00	1.65	ug/L	83	SW846 8310
Benzo(b)fluoranthene	4.00	3.37	ug/L	84	SW846 8310
Benzo(k)fluoranthene	2.00	1.71	ug/L	86	SW846 8310
Benzo(ghi)perylene	4.00	3.34	ug/L	83	SW846 8310
Benzo(a)pyrene	2.00	1.68	ug/L	84	SW846 8310
Chrysene	2.00	1.69	ug/L	85	SW846 8310
Dibenz(a,h)anthracene	4.00	3.55	ug/L	89	SW846 8310
Fluoranthene	4.00	3.33	ug/L	83	SW846 8310
Fluorene	4.00	3.20	ug/L	80	SW846 8310
Indeno(1,2,3-cd)pyrene	2.00	1.71	ug/L	86	SW846 8310
Naphthalene	20.0	14.9	ug/L	74	SW846 8310
Phenanthrene	2.00	1.63	ug/L	82	SW846 8310
Pyrene	2.00	1.66	ug/L	83	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	83	(56 - 108)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: SL1259 Work Order #...: MRJ661AD-MS Matrix.....: WATER
MS Lot-Sample #: F2C220433-001 MRJ661AE-MSD
Date Sampled...: 03/20/12 Date Received..: 03/22/12
Prep Date.....: 03/27/12 Analysis Date..: 03/27/12
Prep Batch #...: 2087065
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	38.2	32.4	ug/L	85		SW846 8310
	ND	37.7	31.6	ug/L	84	2.5	SW846 8310
Acenaphthylene	ND	76.5	65.7	ug/L	86		SW846 8310
	ND	75.4	61.7	ug/L	82	6.2	SW846 8310
Anthracene	ND	3.82	3.40	ug/L	89		SW846 8310
	ND	3.77	3.27	ug/L	87	3.8	SW846 8310
Benzo(a)anthracene	ND	3.82	3.49	ug/L	91		SW846 8310
	ND	3.77	3.49	ug/L	93	0.05	SW846 8310
Benzo(b)fluoranthene	ND	7.65	7.23	ug/L	95		SW846 8310
	ND	7.54	6.80	ug/L	90	6.2	SW846 8310
Benzo(k)fluoranthene	ND	3.82	3.56	ug/L	93		SW846 8310
	ND	3.77	3.32	ug/L	88	7.2	SW846 8310
Benzo(ghi)perylene	ND	7.65	6.97	ug/L	91		SW846 8310
	ND	7.54	6.64	ug/L	88	4.8	SW846 8310
Benzo(a)pyrene	ND	3.82	3.55	ug/L	93		SW846 8310
	ND	3.77	3.37	ug/L	89	5.1	SW846 8310
Chrysene	ND	3.82	3.50	ug/L	92		SW846 8310
	ND	3.77	3.38	ug/L	90	3.7	SW846 8310
Dibenz(a,h)anthracene	ND	7.65	7.25	ug/L	95		SW846 8310
	ND	7.54	6.68	ug/L	89	8.1	SW846 8310
Fluoranthene	ND	7.65	6.85	ug/L	90		SW846 8310
	ND	7.54	6.64	ug/L	88	3.0	SW846 8310
Fluorene	ND	7.65	6.65	ug/L	87		SW846 8310
	ND	7.54	6.37	ug/L	85	4.2	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	3.82	3.50	ug/L	92		SW846 8310
	ND	3.77	3.30	ug/L	87	6.1	SW846 8310
Naphthalene	ND	38.2	31.3	ug/L	82		SW846 8310
	ND	37.7	28.3	ug/L	75	10	SW846 8310
Phenanthrene	ND	3.82	3.38	ug/L	88		SW846 8310
	ND	3.77	3.28	ug/L	87	3.2	SW846 8310
Pyrene	ND	3.82	3.64	ug/L	95		SW846 8310
	ND	3.77	3.53	ug/L	94	3.2	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	91	(60 - 98)
	88	(60 - 98)

NOTE(S):

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

Bold print denotes control parameters

METALS

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K5D6

TOTAL Metals

Lot-Sample #...: F2C150414-002 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2076029						
Antimony	ND	60.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7K1AC
		Dilution Factor: 1		MDL.....: 4.0		
Barium	**37.1 B**	**200**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7K1AD**
		Dilution Factor: 1		MDL.....: 4.0		
Beryllium	ND	5.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7K1AE
		Dilution Factor: 1		MDL.....: 0.61		
Cadmium	ND	5.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7K1AF
		Dilution Factor: 1		MDL.....: 0.91		
Calcium	**72900 D,N**	**50000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7K1AG**
		Dilution Factor: 10		MDL.....: 1060		
Chromium	**8.1 B**	**10.0**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7K1AH**
		Dilution Factor: 1		MDL.....: 3.1		
Cobalt	ND	50.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7K1AJ
		Dilution Factor: 1		MDL.....: 4.0		
Copper	ND	25.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7K1AK
		Dilution Factor: 1		MDL.....: 4.6		
Iron	ND	100	ug/L	SW846 6010B	03/16-03/21/12	MRE7K1AL
		Dilution Factor: 1		MDL.....: 28.2		
Magnesium	**10900**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7K1AM**
		Dilution Factor: 1		MDL.....: 132		
Manganese	ND	15.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7K1AN
		Dilution Factor: 1		MDL.....: 3.3		
Nickel	ND	40.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7K1AP
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	**2100 B**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7K1AQ**
		Dilution Factor: 1		MDL.....: 1650		
Silver	ND	10.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7K1AR
		Dilution Factor: 1		MDL.....: 6.0		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K5D6

TOTAL Metals

Lot-Sample #...: F2C150414-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	**3790 B**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7K1AT**
		Dilution Factor: 1		MDL.....: 324		
Strontium	**287 B,D**	**500**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7K1AU**
		Dilution Factor: 10		MDL.....: 5.4		
Vanadium	ND	50.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7K1AV
		Dilution Factor: 1		MDL.....: 4.1		
Zinc	ND	20.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7K1AW
		Dilution Factor: 1		MDL.....: 7.0		

NOTE(S):

B Estimated result. Result is less than RL.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K5F1

DISSOLVED Metals

Lot-Sample #...: F2C150414-003 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2076028						
Antimony	ND	60.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7Q1AA
		Dilution Factor: 1		MDL.....: 4.0		
Barium	**37.7 B**	**200**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7Q1AC**
		Dilution Factor: 1		MDL.....: 4.0		
Beryllium	ND	5.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7Q1AD
		Dilution Factor: 1		MDL.....: 0.61		
Cadmium	ND	5.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7Q1AE
		Dilution Factor: 1		MDL.....: 0.91		
Calcium	**72000 D,N**	**50000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7Q1AF**
		Dilution Factor: 10		MDL.....: 1060		
Chromium	**4.2 B**	**10.0**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7Q1AG**
		Dilution Factor: 1		MDL.....: 3.1		
Cobalt	ND	50.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7Q1AH
		Dilution Factor: 1		MDL.....: 4.0		
Copper	ND	25.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7Q1AJ
		Dilution Factor: 1		MDL.....: 4.6		
Iron	ND	100	ug/L	SW846 6010B	03/16-03/21/12	MRE7Q1AK
		Dilution Factor: 1		MDL.....: 28.2		
Magnesium	**11000**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7Q1AL**
		Dilution Factor: 1		MDL.....: 132		
Manganese	ND	15.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7Q1AM
		Dilution Factor: 1		MDL.....: 3.3		
Nickel	ND	40.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7Q1AN
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	**2160 B**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7Q1AP**
		Dilution Factor: 1		MDL.....: 1650		
Silver	ND	10.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7Q1AQ
		Dilution Factor: 1		MDL.....: 6.0		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K5F1

DISSOLVED Metals

Lot-Sample #...: F2C150414-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	**3820 B**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7Q1AR**
		Dilution Factor: 1		MDL.....: 324		
Strontium	**287 B,D**	**500**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7Q1AT**
		Dilution Factor: 10		MDL.....: 5.4		
Vanadium	ND	50.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7Q1AU
		Dilution Factor: 1		MDL.....: 4.1		
Zinc	ND	20.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7Q1AV
		Dilution Factor: 1		MDL.....: 7.0		

NOTE(S):

B Estimated result. Result is less than RL.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JY30

DISSOLVED Metals

Lot-Sample #...: F2C150419-001 Matrix.....: WATER
Date Sampled...: 03/14/12 Date Received..: 03/15/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2076028						
Antimony	ND	60.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7T1AA
		Dilution Factor: 1		MDL.....: 4.0		
Barium	**36.4 B**	**200**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7T1AC**
		Dilution Factor: 1		MDL.....: 4.0		
Beryllium	ND	5.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7T1AD
		Dilution Factor: 1		MDL.....: 0.61		
Cadmium	ND	5.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7T1AE
		Dilution Factor: 1		MDL.....: 0.91		
Calcium	**47600 N**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7T1AF**
		Dilution Factor: 1		MDL.....: 106		
Chromium	**349**	**10.0**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7T1AG**
		Dilution Factor: 1		MDL.....: 3.1		
Cobalt	ND	50.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7T1AH
		Dilution Factor: 1		MDL.....: 4.0		
Copper	ND	25.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7T1AJ
		Dilution Factor: 1		MDL.....: 4.6		
Iron	**30.9 B**	**100**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7T1AK**
		Dilution Factor: 1		MDL.....: 28.2		
Magnesium	**12400**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7T1AL**
		Dilution Factor: 1		MDL.....: 132		
Manganese	ND	15.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7T1AM
		Dilution Factor: 1		MDL.....: 3.3		
Nickel	ND	40.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7T1AN
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	**5280**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7T1AP**
		Dilution Factor: 1		MDL.....: 1650		
Silver	ND	10.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7T1AQ
		Dilution Factor: 1		MDL.....: 6.0		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JY30

DISSOLVED Metals

Lot-Sample #...: F2C150419-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	**18300**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7T1AR**
		Dilution Factor: 1		MDL.....: 324		
Strontium	**232**	**50.0**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7T1AT**
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	**9.9 B**	**50.0**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7T1AU**
		Dilution Factor: 1		MDL.....: 4.1		
Zinc	ND	20.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7T1AV
		Dilution Factor: 1		MDL.....: 7.0		
Prep Batch #...: 2079043						
Mercury	ND	0.20	ug/L	SW846 7470A	03/19/12	MRE7T1AW
		Dilution Factor: 1		MDL.....: 0.060		

NOTE(S):

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JY24

TOTAL Metals

Lot-Sample #...: F2C150419-002 Matrix.....: WATER
Date Sampled...: 03/14/12 Date Received..: 03/15/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2076029						
Antimony	ND	60.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7V1AC
		Dilution Factor: 1		MDL.....: 4.0		
Barium	**36.2 B**	**200**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7V1AD**
		Dilution Factor: 1		MDL.....: 4.0		
Beryllium	ND	5.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7V1AE
		Dilution Factor: 1		MDL.....: 0.61		
Cadmium	ND	5.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7V1AF
		Dilution Factor: 1		MDL.....: 0.91		
Calcium	**46500 N**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7V1AG**
		Dilution Factor: 1		MDL.....: 106		
Chromium	**342**	**10.0**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7V1AH**
		Dilution Factor: 1		MDL.....: 3.1		
Cobalt	ND	50.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7V1AJ
		Dilution Factor: 1		MDL.....: 4.0		
Copper	ND	25.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7V1AK
		Dilution Factor: 1		MDL.....: 4.6		
Iron	ND	100	ug/L	SW846 6010B	03/16-03/21/12	MRE7V1AL
		Dilution Factor: 1		MDL.....: 28.2		
Magnesium	**12300**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7V1AM**
		Dilution Factor: 1		MDL.....: 132		
Manganese	ND	15.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7V1AN
		Dilution Factor: 1		MDL.....: 3.3		
Nickel	ND	40.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7V1AP
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	**5380**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7V1AQ**
		Dilution Factor: 1		MDL.....: 1650		
Silver	ND	10.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7V1AR
		Dilution Factor: 1		MDL.....: 6.0		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JY24

TOTAL Metals

Lot-Sample #...: F2C150419-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	**18200**	**5000**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7V1AT**
		Dilution Factor: 1		MDL.....: 324		
Strontium	**235**	**50.0**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7V1AU**
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	**11.0 B**	**50.0**	**ug/L**	**SW846 6010B**	**03/16-03/21/12**	**MRE7V1AV**
		Dilution Factor: 1		MDL.....: 4.1		
Zinc	ND	20.0	ug/L	SW846 6010B	03/16-03/21/12	MRE7V1AW
		Dilution Factor: 1		MDL.....: 7.0		
Prep Batch #...: 2079044						
Mercury	ND	0.20	ug/L	SW846 7470A	03/19/12	MRE7V1AX
		Dilution Factor: 1		MDL.....: 0.060		

NOTE(S):

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JN32

TOTAL Metals

Lot-Sample #...: F2C150421-001 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2080072						
Silver	ND	2.0	ug/L	SW846 6020	03/20-03/22/12	MRE7X1AQ
		Dilution Factor: 1		MDL.....: 0.040		
Aluminum	ND	30.0	ug/L	SW846 6020	03/20-03/22/12	MRE7X1AC
		Dilution Factor: 1		MDL.....: 12.9		
Arsenic	**5.1 B**	**10.0**	**ug/L**	**SW846 6020**	**03/20-03/22/12**	**MRE7X1AE**
		Dilution Factor: 1		MDL.....: 0.95		
Barium	**35.1**	**2.0**	**ug/L**	**SW846 6020**	**03/20-03/22/12**	**MRE7X1AF**
		Dilution Factor: 1		MDL.....: 0.20		
Beryllium	ND	0.50	ug/L	SW846 6020	03/20-03/22/12	MRE7X1AG
		Dilution Factor: 1		MDL.....: 0.35		
Boron	**45.3 B,C,N**	**50.0**	**ug/L**	**SW846 6020**	**03/20-03/22/12**	**MRE7X1AH**
		Dilution Factor: 1		MDL.....: 10.0		
Cadmium	ND	0.50	ug/L	SW846 6020	03/20-03/27/12	MRE7X1AJ
		Dilution Factor: 1		MDL.....: 0.10		
Cobalt	**0.49 B**	**2.0**	**ug/L**	**SW846 6020**	**03/20-03/22/12**	**MRE7X1AK**
		Dilution Factor: 1		MDL.....: 0.22		
Chromium	**5.1 B**	**10.0**	**ug/L**	**SW846 6020**	**03/20-03/22/12**	**MRE7X1AU**
		Dilution Factor: 1		MDL.....: 3.3		
Copper	ND	1.0	ug/L	SW846 6020	03/20-03/27/12	MRE7X1AL
		Dilution Factor: 1		MDL.....: 0.45		
Molybdenum	**3.3 B**	**5.0**	**ug/L**	**SW846 6020**	**03/20-03/22/12**	**MRE7X1AN**
		Dilution Factor: 1		MDL.....: 1.0		
Lead	**0.38 B,C**	**3.0**	**ug/L**	**SW846 6020**	**03/20-03/22/12**	**MRE7X1AM**
		Dilution Factor: 1		MDL.....: 0.17		
Antimony	ND	5.0	ug/L	SW846 6020	03/20-03/22/12	MRE7X1AD
		Dilution Factor: 1		MDL.....: 1.7		
Selenium	**2.0 B**	**5.0**	**ug/L**	**SW846 6020**	**03/20-03/22/12**	**MRE7X1AP**
		Dilution Factor: 1		MDL.....: 1.6		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JN32

TOTAL Metals

Lot-Sample #...: F2C150421-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Tin	1.2 B	2.0	ug/L	SW846 6020	03/20-03/22/12	MRE7X1AT
		Dilution Factor: 1		MDL.....: 1.0		
Thallium	1.6 B,C	2.0	ug/L	SW846 6020	03/20-03/22/12	MRE7X1AR
		Dilution Factor: 1		MDL.....: 0.55		

NOTE(S):

B Estimated result. Result is less than RL.

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

N Spiked analyte recovery is outside stated control limits.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JN37

DISSOLVED Metals

Lot-Sample #...: F2C150421-002 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2076033						
Silver	ND	2.0	ug/L	SW846 6020	03/16-03/22/12	MRE721AP
		Dilution Factor: 1		MDL.....: 0.040		
Aluminum	ND	30.0	ug/L	SW846 6020	03/16-03/22/12	MRE721AE
		Dilution Factor: 1		MDL.....: 12.9		
Arsenic	**5.0 B**	**10.0**	**ug/L**	**SW846 6020**	**03/16-03/22/12**	**MRE721AG**
		Dilution Factor: 1		MDL.....: 0.95		
Barium	**36.1**	**2.0**	**ug/L**	**SW846 6020**	**03/16-03/22/12**	**MRE721AH**
		Dilution Factor: 1		MDL.....: 0.20		
Beryllium	ND	0.50	ug/L	SW846 6020	03/16-03/22/12	MRE721AA
		Dilution Factor: 1		MDL.....: 0.35		
Boron	**30.9 B**	**50.0**	**ug/L**	**SW846 6020**	**03/16-03/22/12**	**MRE721AC**
		Dilution Factor: 1		MDL.....: 10.0		
Cadmium	ND	0.50	ug/L	SW846 6020	03/16-03/27/12	MRE721AD
		Dilution Factor: 1		MDL.....: 0.10		
Cobalt	ND	2.0	ug/L	SW846 6020	03/16-03/22/12	MRE721AJ
		Dilution Factor: 1		MDL.....: 0.22		
Chromium	**5.6 B**	**10.0**	**ug/L**	**SW846 6020**	**03/16-03/22/12**	**MRE721AT**
		Dilution Factor: 1		MDL.....: 3.3		
Copper	**0.78 B**	**1.0**	**ug/L**	**SW846 6020**	**03/16-03/22/12**	**MRE721AK**
		Dilution Factor: 1		MDL.....: 0.45		
Molybdenum	**3.2 B**	**5.0**	**ug/L**	**SW846 6020**	**03/16-03/22/12**	**MRE721AM**
		Dilution Factor: 1		MDL.....: 1.0		
Lead	**0.34 B**	**3.0**	**ug/L**	**SW846 6020**	**03/16-03/22/12**	**MRE721AL**
		Dilution Factor: 1		MDL.....: 0.17		
Antimony	ND	5.0	ug/L	SW846 6020	03/16-03/22/12	MRE721AF
		Dilution Factor: 1		MDL.....: 1.7		
Selenium	**2.7 B**	**5.0**	**ug/L**	**SW846 6020**	**03/16-03/22/12**	**MRE721AN**
		Dilution Factor: 1		MDL.....: 1.6		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JN37

DISSOLVED Metals

Lot-Sample #...: F2C150421-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Tin	1.0 B	2.0	ug/L	SW846 6020	03/16-03/22/12	MRE721AR
		Dilution Factor: 1		MDL.....: 1.0		
Thallium	1.2 B	2.0	ug/L	SW846 6020	03/16-03/22/12	MRE721AQ
		Dilution Factor: 1		MDL.....: 0.55		

NOTE(S):

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F2C160000-029 **Prep Batch #...:** 2076029						
Antimony	ND	60.0	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AA
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AC
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AD
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AE
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AF
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AG
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AH
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AJ
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AK
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AL
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AM
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AN
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AP
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AQ
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AR
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Strontium	ND	50.0	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AT
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AU
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	03/16-03/21/12	MRFW11AV
		Dilution Factor: 1				
MB Lot-Sample #: F2C190000-044 **Prep Batch #...:** 2079044						
Mercury	ND	0.20	ug/L	SW846 7470A	03/19/12	MRGXX1AA
		Dilution Factor: 1				
MB Lot-Sample #: F2C200000-072 **Prep Batch #...:** 2080072						
Aluminum	ND	30.0	ug/L	SW846 6020	03/20-03/22/12	MRHQ31AA
		Dilution Factor: 1				
Antimony	ND	5.0	ug/L	SW846 6020	03/20-03/22/12	MRHQ31AC
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	SW846 6020	03/20-03/22/12	MRHQ31AD
		Dilution Factor: 1				
Barium	ND	2.0	ug/L	SW846 6020	03/20-03/22/12	MRHQ31AE
		Dilution Factor: 1				
Beryllium	ND	0.50	ug/L	SW846 6020	03/20-03/22/12	MRHQ31AF
		Dilution Factor: 1				
Boron	**22.4 B**	**50.0**	**ug/L**	**SW846 6020**	**03/20-03/22/12**	**MRHQ31AG**
		Dilution Factor: 1				
Cadmium	ND	0.50	ug/L	SW846 6020	03/20-03/27/12	MRHQ31AH
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6020	03/20-03/22/12	MRHQ31AT
		Dilution Factor: 1				
Cobalt	ND	2.0	ug/L	SW846 6020	03/20-03/22/12	MRHQ31AJ
		Dilution Factor: 1				
Copper	ND	1.0	ug/L	SW846 6020	03/20-03/27/12	MRHQ31AK
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	**0.79 B**	**3.0**	**ug/L**	**SW846 6020**	**03/20-03/22/12**	**MRHQ31AL**
		Dilution Factor: 1				
Molybdenum	ND	5.0	ug/L	SW846 6020	03/20-03/22/12	MRHQ31AM
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6020	03/20-03/22/12	MRHQ31AN
		Dilution Factor: 1				
Silver	ND	2.0	ug/L	SW846 6020	03/20-03/22/12	MRHQ31AP
		Dilution Factor: 1				
Thallium	**0.55 B**	**2.0**	**ug/L**	**SW846 6020**	**03/20-03/22/12**	**MRHQ31AQ**
		Dilution Factor: 1				
Tin	ND	2.0	ug/L	SW846 6020	03/20-03/22/12	MRHQ31AR
		Dilution Factor: 1				

NOTE(S):

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

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F2C160000-028 **Prep Batch #...:** 2076028						
Antimony	ND	60.0	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AA
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AC
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AD
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AE
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AF
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AG
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AH
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AJ
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AK
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AL
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AM
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AN
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AP
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AQ
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AR
		Dilution Factor: 1				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Strontium	ND	50.0	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AT
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AU
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	03/16-03/21/12	MRFWX1AV
		Dilution Factor: 1				

MB Lot-Sample #: F2C160000-033 **Prep Batch #...:** 2076033

Aluminum	ND	30.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AE
		Dilution Factor: 1				
Antimony	ND	5.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AF
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AG
		Dilution Factor: 1				
Barium	ND	2.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AH
		Dilution Factor: 1				
Beryllium	ND	0.50	ug/L	SW846 6020	03/16-03/22/12	MRFW91AA
		Dilution Factor: 1				
Boron	ND	50.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AC
		Dilution Factor: 1				
Cadmium	ND	0.50	ug/L	SW846 6020	03/16-03/27/12	MRFW91AD
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AT
		Dilution Factor: 1				
Cobalt	ND	2.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AJ
		Dilution Factor: 1				
Copper	ND	1.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AK
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AL
		Dilution Factor: 1				
Molybdenum	ND	5.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AM
		Dilution Factor: 1				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	5.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AN
		Dilution Factor: 1				
Silver	ND	2.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AP
		Dilution Factor: 1				
Thallium	ND	2.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AQ
		Dilution Factor: 1				
Tin	ND	2.0	ug/L	SW846 6020	03/16-03/22/12	MRFW91AR
		Dilution Factor: 1				

MB Lot-Sample #: F2C190000-043 **Prep Batch #...:** 2079043

Mercury	ND	0.20	ug/L	SW846 7470A	03/19/12	MRGXT1AA
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F2C160000-029 **Prep Batch #...:** 2076029							
Antimony	500	501	ug/L	100	SW846 6010B	03/16-03/21/12	MRFW11AW
			Dilution Factor: 1				
Barium	1000	1000	ug/L	100	SW846 6010B	03/16-03/21/12	MRFW11AX
			Dilution Factor: 1				
Beryllium	1000	1010	ug/L	101	SW846 6010B	03/16-03/21/12	MRFW11A0
			Dilution Factor: 1				
Cadmium	1000	998	ug/L	100	SW846 6010B	03/16-03/21/12	MRFW11A1
			Dilution Factor: 1				
Calcium	10000	10100	ug/L	101	SW846 6010B	03/16-03/21/12	MRFW11A2
			Dilution Factor: 1				
Chromium	1000	953	ug/L	95	SW846 6010B	03/16-03/21/12	MRFW11A3
			Dilution Factor: 1				
Cobalt	1000	1030	ug/L	103	SW846 6010B	03/16-03/21/12	MRFW11A4
			Dilution Factor: 1				
Copper	1000	1030	ug/L	103	SW846 6010B	03/16-03/21/12	MRFW11A5
			Dilution Factor: 1				
Iron	10000	9420	ug/L	94	SW846 6010B	03/16-03/21/12	MRFW11A6
			Dilution Factor: 1				
Magnesium	10000	9840	ug/L	98	SW846 6010B	03/16-03/21/12	MRFW11A7
			Dilution Factor: 1				
Manganese	1000	1010	ug/L	101	SW846 6010B	03/16-03/21/12	MRFW11A8
			Dilution Factor: 1				
Nickel	1000	1020	ug/L	102	SW846 6010B	03/16-03/21/12	MRFW11A9
			Dilution Factor: 1				
Potassium	10000	9080	ug/L	91	SW846 6010B	03/16-03/21/12	MRFW11CA
			Dilution Factor: 1				
Silver	100	94.4	ug/L	94	SW846 6010B	03/16-03/21/12	MRFW11CC
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	10000	9320	ug/L	93	SW846 6010B	03/16-03/21/12	MRFW11CD
			Dilution Factor: 1				
Strontium	1000	1000	ug/L	100	SW846 6010B	03/16-03/21/12	MRFW11CE
			Dilution Factor: 1				
Vanadium	1000	965	ug/L	96	SW846 6010B	03/16-03/21/12	MRFW11CF
			Dilution Factor: 1				
Zinc	1000	986	ug/L	99	SW846 6010B	03/16-03/21/12	MRFW11CG
			Dilution Factor: 1				
LCS Lot-Sample#: F2C190000-044 **Prep Batch #...:** 2079044							
Mercury	1.00	1.00	ug/L	100	SW846 7470A	03/19/12	MRGXX1AC
			Dilution Factor: 1				
LCS Lot-Sample#: F2C200000-072 **Prep Batch #...:** 2080072							
Aluminum	10000	9890	ug/L	99	SW846 6020	03/20-03/22/12	MRHQ31AU
			Dilution Factor: 1				
Antimony	500	526	ug/L	105	SW846 6020	03/20-03/22/12	MRHQ31AV
			Dilution Factor: 1				
Arsenic	1000	1010	ug/L	101	SW846 6020	03/20-03/22/12	MRHQ31AW
			Dilution Factor: 1				
Barium	1000	1040	ug/L	104	SW846 6020	03/20-03/22/12	MRHQ31AX
			Dilution Factor: 1				
Beryllium	1000	1110	ug/L	111	SW846 6020	03/20-03/22/12	MRHQ31A0
			Dilution Factor: 1				
Boron	1000	1220 N	ug/L	122	SW846 6020	03/20-03/22/12	MRHQ31A1
			Dilution Factor: 1				
Cadmium	1000	1000	ug/L	100	SW846 6020	03/20-03/27/12	MRHQ31A2
			Dilution Factor: 1				
Cobalt	1000	1050	ug/L	105	SW846 6020	03/20-03/22/12	MRHQ31A3
			Dilution Factor: 1				
Copper	1000	1000	ug/L	100	SW846 6020	03/20-03/27/12	MRHQ31A4
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	1000	1060	ug/L	106	SW846 6020	03/20-03/22/12	MRHQ31A5
			Dilution Factor: 1				
Molybdenum	1000	1080	ug/L	108	SW846 6020	03/20-03/22/12	MRHQ31A6
			Dilution Factor: 1				
Selenium	1000	991	ug/L	99	SW846 6020	03/20-03/22/12	MRHQ31A7
			Dilution Factor: 1				
Silver	100	106	ug/L	106	SW846 6020	03/20-03/22/12	MRHQ31A8
			Dilution Factor: 1				
Thallium	1000	1070	ug/L	107	SW846 6020	03/20-03/22/12	MRHQ31A9
			Dilution Factor: 1				
Tin	1000	1070	ug/L	107	SW846 6020	03/20-03/22/12	MRHQ31CA
			Dilution Factor: 1				
Chromium	1000	980	ug/L	98	SW846 6020	03/20-03/22/12	MRHQ31CC
			Dilution Factor: 1				

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F2C160000-028 **Prep Batch #...:** 2076028							
Antimony	500	506	ug/L	101	SW846 6010B	03/16-03/21/12	MRFWX1AW
			Dilution Factor: 1				
Barium	1000	1010	ug/L	101	SW846 6010B	03/16-03/21/12	MRFWX1AX
			Dilution Factor: 1				
Beryllium	1000	1010	ug/L	101	SW846 6010B	03/16-03/21/12	MRFWX1A0
			Dilution Factor: 1				
Cadmium	1000	1000	ug/L	100	SW846 6010B	03/16-03/21/12	MRFWX1A1
			Dilution Factor: 1				
Calcium	10000	10100	ug/L	101	SW846 6010B	03/16-03/21/12	MRFWX1A2
			Dilution Factor: 1				
Chromium	1000	959	ug/L	96	SW846 6010B	03/16-03/21/12	MRFWX1A3
			Dilution Factor: 1				
Cobalt	1000	1040	ug/L	104	SW846 6010B	03/16-03/21/12	MRFWX1A4
			Dilution Factor: 1				
Copper	1000	1030	ug/L	103	SW846 6010B	03/16-03/21/12	MRFWX1A5
			Dilution Factor: 1				
Iron	10000	9480	ug/L	95	SW846 6010B	03/16-03/21/12	MRFWX1A6
			Dilution Factor: 1				
Magnesium	10000	9860	ug/L	99	SW846 6010B	03/16-03/21/12	MRFWX1A7
			Dilution Factor: 1				
Manganese	1000	1020	ug/L	102	SW846 6010B	03/16-03/21/12	MRFWX1A8
			Dilution Factor: 1				
Nickel	1000	1040	ug/L	104	SW846 6010B	03/16-03/21/12	MRFWX1A9
			Dilution Factor: 1				
Potassium	10000	9140	ug/L	91	SW846 6010B	03/16-03/21/12	MRFWX1CA
			Dilution Factor: 1				
Silver	100	94.2	ug/L	94	SW846 6010B	03/16-03/21/12	MRFWX1CC
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	10000	9380	ug/L	94	SW846 6010B	03/16-03/21/12	MRFWX1CD
			Dilution Factor: 1				
Strontium	1000	1000	ug/L	100	SW846 6010B	03/16-03/21/12	MRFWX1CE
			Dilution Factor: 1				
Vanadium	1000	970	ug/L	97	SW846 6010B	03/16-03/21/12	MRFWX1CF
			Dilution Factor: 1				
Zinc	1000	989	ug/L	99	SW846 6010B	03/16-03/21/12	MRFWX1CG
			Dilution Factor: 1				
LCS Lot-Sample#: F2C160000-033 **Prep Batch #...:** 2076033							
Beryllium	1000	1130	ug/L	113	SW846 6020	03/16-03/22/12	MRFW91AU
			Dilution Factor: 1				
Boron	1000	1190	ug/L	119	SW846 6020	03/16-03/22/12	MRFW91AV
			Dilution Factor: 1				
Cadmium	1000	993	ug/L	99	SW846 6020	03/16-03/27/12	MRFW91AW
			Dilution Factor: 1				
Aluminum	10000	9900	ug/L	99	SW846 6020	03/16-03/22/12	MRFW91AX
			Dilution Factor: 1				
Antimony	500	511	ug/L	102	SW846 6020	03/16-03/22/12	MRFW91A0
			Dilution Factor: 1				
Arsenic	1000	1000	ug/L	100	SW846 6020	03/16-03/22/12	MRFW91A1
			Dilution Factor: 1				
Barium	1000	1020	ug/L	102	SW846 6020	03/16-03/22/12	MRFW91A2
			Dilution Factor: 1				
Cobalt	1000	1040	ug/L	104	SW846 6020	03/16-03/22/12	MRFW91A3
			Dilution Factor: 1				
Copper	1000	1020	ug/L	102	SW846 6020	03/16-03/22/12	MRFW91A4
			Dilution Factor: 1				
Lead	1000	1040	ug/L	104	SW846 6020	03/16-03/22/12	MRFW91A5
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum	1000	1060	ug/L	106	SW846 6020	03/16-03/22/12	MRFW91A6
			Dilution Factor: 1				
Selenium	1000	1010	ug/L	101	SW846 6020	03/16-03/22/12	MRFW91A7
			Dilution Factor: 1				
Silver	100	105	ug/L	105	SW846 6020	03/16-03/22/12	MRFW91A8
			Dilution Factor: 1				
Thallium	1000	1050	ug/L	105	SW846 6020	03/16-03/22/12	MRFW91A9
			Dilution Factor: 1				
Tin	1000	1030	ug/L	103	SW846 6020	03/16-03/22/12	MRFW91CA
			Dilution Factor: 1				
Chromium	1000	958	ug/L	96	SW846 6020	03/16-03/22/12	MRFW91CC
			Dilution Factor: 1				

LCS Lot-Sample#: F2C190000-043 **Prep Batch #...:** 2079043

Mercury	1.00	1.03	ug/L	103	SW846 7470A	03/19/12	MRGXT1AC
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1259 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

MS Lot-Sample #: F2C150414-002 **Prep Batch #...:** 2076029

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony									
	ND	500	503	ug/L	101		SW846 6010B	03/16-03/21/12	MRE7K1A2
	ND	500	502	ug/L	100	0.21	SW846 6010B	03/16-03/21/12	MRE7K1A3
			Dilution Factor: 1						
Barium									
	37.1	1000	1050	ug/L	101		SW846 6010B	03/16-03/21/12	MRE7K1A4
	37.1	1000	1050	ug/L	101	0.0	SW846 6010B	03/16-03/21/12	MRE7K1A5
			Dilution Factor: 1						
Beryllium									
	ND	1000	1020	ug/L	102		SW846 6010B	03/16-03/21/12	MRE7K1A6
	ND	1000	1020	ug/L	102	0.09	SW846 6010B	03/16-03/21/12	MRE7K1A7
			Dilution Factor: 1						
Cadmium									
	ND	1000	982	ug/L	98		SW846 6010B	03/16-03/21/12	MRE7K1A8
	ND	1000	989	ug/L	99	0.72	SW846 6010B	03/16-03/21/12	MRE7K1A9
			Dilution Factor: 1						
Calcium									
	72900	10000	85200 D	ug/L	123		SW846 6010B	03/16-03/21/12	MRE7K1CA
	72900	10000	79200	ug/L	63	7.3	SW846 6010B	03/16-03/21/12	MRE7K1CC
			Qualifiers: N,D						
			Dilution Factor: 10						
Chromium									
	8.1	1000	952	ug/L	94		SW846 6010B	03/16-03/21/12	MRE7K1CD
	8.1	1000	947	ug/L	94	0.50	SW846 6010B	03/16-03/21/12	MRE7K1CE
			Dilution Factor: 1						
Cobalt									
	ND	1000	984	ug/L	98		SW846 6010B	03/16-03/21/12	MRE7K1CF
	ND	1000	988	ug/L	99	0.37	SW846 6010B	03/16-03/21/12	MRE7K1CG
			Dilution Factor: 1						
Copper									
	ND	1000	1000	ug/L	100		SW846 6010B	03/16-03/21/12	MRE7K1CH
	ND	1000	1010	ug/L	101	0.29	SW846 6010B	03/16-03/21/12	MRE7K1CJ
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1259 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron									
	ND	10000	9650	ug/L	96		SW846 6010B	03/16-03/21/12	MRE7K1CK
	ND	10000	9620	ug/L	96	0.34	SW846 6010B	03/16-03/21/12	MRE7K1CL
			Dilution Factor: 1						
Magnesium									
	10900	10000	20800	ug/L	99		SW846 6010B	03/16-03/21/12	MRE7K1CM
	10900	10000	20700	ug/L	98	0.48	SW846 6010B	03/16-03/21/12	MRE7K1CN
			Dilution Factor: 1						
Manganese									
	ND	1000	1010	ug/L	101		SW846 6010B	03/16-03/21/12	MRE7K1CP
	ND	1000	1010	ug/L	101	0.19	SW846 6010B	03/16-03/21/12	MRE7K1CQ
			Dilution Factor: 1						
Nickel									
	ND	1000	983	ug/L	98		SW846 6010B	03/16-03/21/12	MRE7K1CR
	ND	1000	988	ug/L	99	0.56	SW846 6010B	03/16-03/21/12	MRE7K1CT
			Dilution Factor: 1						
Potassium									
	2100	10000	11600	ug/L	96		SW846 6010B	03/16-03/21/12	MRE7K1CU
	2100	10000	11600	ug/L	95	0.68	SW846 6010B	03/16-03/21/12	MRE7K1CV
			Dilution Factor: 1						
Silver									
	ND	100	94.6	ug/L	95		SW846 6010B	03/16-03/21/12	MRE7K1CW
	ND	100	94.5	ug/L	94	0.10	SW846 6010B	03/16-03/21/12	MRE7K1CX
			Dilution Factor: 1						
Sodium									
	3790	10000	13600	ug/L	98		SW846 6010B	03/16-03/21/12	MRE7K1C0
	3790	10000	13500	ug/L	97	0.36	SW846 6010B	03/16-03/21/12	MRE7K1C1
			Dilution Factor: 1						
Strontium									
	287	1000	1300 D	ug/L	102		SW846 6010B	03/16-03/21/12	MRE7K1C2
	287	1000	1300 D	ug/L	101	0.46	SW846 6010B	03/16-03/21/12	MRE7K1C3
			Dilution Factor: 10						
Vanadium									
	ND	1000	988	ug/L	99		SW846 6010B	03/16-03/21/12	MRE7K1C4
	ND	1000	987	ug/L	99	0.16	SW846 6010B	03/16-03/21/12	MRE7K1C5
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1259 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	ND	1000	968	ug/L	97		SW846 6010B	03/16-03/21/12	MRE7K1C6
	ND	1000	972	ug/L	97	0.40	SW846 6010B	03/16-03/21/12	MRE7K1C7

Dilution Factor: 1

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1259 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F2C150419-002 **Prep Batch #...:** 2079044									
Mercury									
	ND	1.00	0.997	ug/L	100		SW846 7470A	03/19/12	MRE7V1A6
	ND	1.00	0.982	ug/L	98	1.6	SW846 7470A	03/19/12	MRE7V1A7
			Dilution Factor: 1						

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1259 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

MS Lot-Sample #: F2C150421-001 **Prep Batch #...:** 2080072

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum									
	ND	10000	9880	ug/L	99		SW846 6020	03/20-03/22/12	MRE7X1A2
	ND	10000	9960	ug/L	100	0.78	SW846 6020	03/20-03/22/12	MRE7X1A3
			Dilution Factor: 1						
Antimony									
	ND	500	528	ug/L	106		SW846 6020	03/20-03/22/12	MRE7X1A4
	ND	500	533	ug/L	107	1.1	SW846 6020	03/20-03/22/12	MRE7X1A5
			Dilution Factor: 1						
Arsenic									
	5.1	1000	991	ug/L	99		SW846 6020	03/20-03/22/12	MRE7X1A6
	5.1	1000	987	ug/L	98	0.40	SW846 6020	03/20-03/22/12	MRE7X1A7
			Dilution Factor: 1						
Barium									
	35.1	1000	1050	ug/L	101		SW846 6020	03/20-03/22/12	MRE7X1A8
	35.1	1000	1060	ug/L	103	1.2	SW846 6020	03/20-03/22/12	MRE7X1A9
			Dilution Factor: 1						
Beryllium									
	ND	1000	1110	ug/L	111		SW846 6020	03/20-03/22/12	MRE7X1CA
	ND	1000	1130	ug/L	113	1.8	SW846 6020	03/20-03/22/12	MRE7X1CC
			Dilution Factor: 1						
Boron									
	45.3	1000	1270	ug/L	123		SW846 6020	03/20-03/22/12	MRE7X1CD
	45.3	1000	1300 N	ug/L	126	2.5	SW846 6020	03/20-03/22/12	MRE7X1CE
			Dilution Factor: 1						
Cadmium									
	ND	1000	984	ug/L	98		SW846 6020	03/20-03/27/12	MRE7X1CF
	ND	1000	1010	ug/L	101	2.2	SW846 6020	03/20-03/27/12	MRE7X1CG
			Dilution Factor: 1						
Chromium									
	5.1	1000	982	ug/L	98		SW846 6020	03/20-03/22/12	MRE7X1C2
	5.1	1000	998	ug/L	99	1.6	SW846 6020	03/20-03/22/12	MRE7X1C3
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1259 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt									
	0.49	1000	1010	ug/L	101		SW846 6020	03/20-03/22/12	MRE7X1CH
	0.49	1000	995	ug/L	99	1.1	SW846 6020	03/20-03/22/12	MRE7X1CJ
			Dilution Factor: 1						
Copper									
	ND	1000	924	ug/L	92		SW846 6020	03/20-03/27/12	MRE7X1CK
	ND	1000	948	ug/L	95	2.5	SW846 6020	03/20-03/27/12	MRE7X1CL
			Dilution Factor: 1						
Lead									
	0.38	1000	1050	ug/L	105		SW846 6020	03/20-03/22/12	MRE7X1CM
	0.38	1000	1070	ug/L	107	1.5	SW846 6020	03/20-03/22/12	MRE7X1CN
			Dilution Factor: 1						
Molybdenum									
	3.3	1000	1050	ug/L	104		SW846 6020	03/20-03/22/12	MRE7X1CP
	3.3	1000	1050	ug/L	104	0.14	SW846 6020	03/20-03/22/12	MRE7X1CQ
			Dilution Factor: 1						
Selenium									
	2.0	1000	960	ug/L	96		SW846 6020	03/20-03/22/12	MRE7X1CR
	2.0	1000	976	ug/L	97	1.7	SW846 6020	03/20-03/22/12	MRE7X1CT
			Dilution Factor: 1						
Silver									
	ND	100	105	ug/L	105		SW846 6020	03/20-03/22/12	MRE7X1CU
	ND	100	105	ug/L	105	0.61	SW846 6020	03/20-03/22/12	MRE7X1CV
			Dilution Factor: 1						
Thallium									
	1.6	1000	1060	ug/L	106		SW846 6020	03/20-03/22/12	MRE7X1CW
	1.6	1000	1080	ug/L	108	2.0	SW846 6020	03/20-03/22/12	MRE7X1CX
			Dilution Factor: 1						
Tin									
	1.2	1000	1080	ug/L	108		SW846 6020	03/20-03/22/12	MRE7X1C0
	1.2	1000	1080	ug/L	108	0.61	SW846 6020	03/20-03/22/12	MRE7X1C1
			Dilution Factor: 1						

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1259 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F2C150414-003 **Prep Batch #...:** 2076028									
Antimony									
	ND	500	501	ug/L	100		SW846 6010B	03/16-03/21/12	MRE7Q1AW
	ND	500	512	ug/L	102	2.2	SW846 6010B	03/16-03/21/12	MRE7Q1AX
			Dilution Factor: 1						
Barium									
	37.7	1000	1040	ug/L	101		SW846 6010B	03/16-03/21/12	MRE7Q1A0
	37.7	1000	1050	ug/L	101	0.28	SW846 6010B	03/16-03/21/12	MRE7Q1A1
			Dilution Factor: 1						
Beryllium									
	ND	1000	1020	ug/L	102		SW846 6010B	03/16-03/21/12	MRE7Q1A2
	ND	1000	1020	ug/L	102	0.39	SW846 6010B	03/16-03/21/12	MRE7Q1A3
			Dilution Factor: 1						
Cadmium									
	ND	1000	995	ug/L	100		SW846 6010B	03/16-03/21/12	MRE7Q1A4
	ND	1000	1020	ug/L	102	2.0	SW846 6010B	03/16-03/21/12	MRE7Q1A5
			Dilution Factor: 1						
Calcium									
	72000	10000	86300	ug/L	143		SW846 6010B	03/16-03/21/12	MRE7Q1A6
			Qualifiers: N,D						
	72000	10000	81100 D	ug/L	92	6.1	SW846 6010B	03/16-03/21/12	MRE7Q1A7
			Dilution Factor: 10						
Chromium									
	4.2	1000	976	ug/L	97		SW846 6010B	03/16-03/21/12	MRE7Q1A8
	4.2	1000	996	ug/L	99	2.0	SW846 6010B	03/16-03/21/12	MRE7Q1A9
			Dilution Factor: 1						
Cobalt									
	ND	1000	1010	ug/L	101		SW846 6010B	03/16-03/21/12	MRE7Q1CA
	ND	1000	1030	ug/L	103	2.0	SW846 6010B	03/16-03/21/12	MRE7Q1CC
			Dilution Factor: 1						
Copper									
	ND	1000	1010	ug/L	101		SW846 6010B	03/16-03/21/12	MRE7Q1CD
	ND	1000	1030	ug/L	103	1.9	SW846 6010B	03/16-03/21/12	MRE7Q1CE
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1259 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron									
	ND	10000	9730	ug/L	97		SW846 6010B	03/16-03/21/12	MRE7Q1CF
	ND	10000	9730	ug/L	97	0.06	SW846 6010B	03/16-03/21/12	MRE7Q1CG
			Dilution Factor: 1						
Magnesium									
	11000	10000	21200	ug/L	101		SW846 6010B	03/16-03/21/12	MRE7Q1CH
	11000	10000	21300	ug/L	102	0.51	SW846 6010B	03/16-03/21/12	MRE7Q1CJ
			Dilution Factor: 1						
Manganese									
	ND	1000	1020	ug/L	102		SW846 6010B	03/16-03/21/12	MRE7Q1CK
	ND	1000	1020	ug/L	102	0.19	SW846 6010B	03/16-03/21/12	MRE7Q1CL
			Dilution Factor: 1						
Nickel									
	ND	1000	1020	ug/L	102		SW846 6010B	03/16-03/21/12	MRE7Q1CM
	ND	1000	1040	ug/L	104	2.0	SW846 6010B	03/16-03/21/12	MRE7Q1CN
			Dilution Factor: 1						
Potassium									
	2160	10000	11700	ug/L	95		SW846 6010B	03/16-03/21/12	MRE7Q1CP
	2160	10000	11700	ug/L	95	0.34	SW846 6010B	03/16-03/21/12	MRE7Q1CQ
			Dilution Factor: 1						
Silver									
	ND	100	94.3	ug/L	94		SW846 6010B	03/16-03/21/12	MRE7Q1CR
	ND	100	96.1	ug/L	96	1.9	SW846 6010B	03/16-03/21/12	MRE7Q1CT
			Dilution Factor: 1						
Sodium									
	3820	10000	13600	ug/L	98		SW846 6010B	03/16-03/21/12	MRE7Q1CU
	3820	10000	13600	ug/L	98	0.0	SW846 6010B	03/16-03/21/12	MRE7Q1CV
			Dilution Factor: 1						
Strontium									
	287	1000	1300 D	ug/L	102		SW846 6010B	03/16-03/21/12	MRE7Q1CW
	287	1000	1300 D	ug/L	101	0.46	SW846 6010B	03/16-03/21/12	MRE7Q1CX
			Dilution Factor: 10						
Vanadium									
	ND	1000	988	ug/L	99		SW846 6010B	03/16-03/21/12	MRE7Q1C0
	ND	1000	996	ug/L	100	0.80	SW846 6010B	03/16-03/21/12	MRE7Q1C1
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1259 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	ND	1000	992	ug/L	99		SW846 6010B	03/16-03/21/12	MRE7Q1C2
	ND	1000	1010	ug/L	101	1.4	SW846 6010B	03/16-03/21/12	MRE7Q1C3

Dilution Factor: 1

NOTE(S):

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

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1259 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F2C150419-001 **Prep Batch #...:** 2079043									
Mercury									
	ND	1.00	0.994	ug/L	99		SW846 7470A	03/19/12	MRE7T1AX
	ND	1.00	1.00	ug/L	100	1.0	SW846 7470A	03/19/12	MRE7T1A0

Dilution Factor: 1

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1259 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

MS Lot-Sample #: F2C150421-002 **Prep Batch #...:** 2076033

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum									
	ND	10000	9820	ug/L	98		SW846 6020	03/16-03/22/12	MRE721A2
	ND	10000	9920	ug/L	99	0.94	SW846 6020	03/16-03/22/12	MRE721A3
			Dilution Factor: 1						
Antimony									
	ND	500	515	ug/L	103		SW846 6020	03/16-03/22/12	MRE721A4
	ND	500	521	ug/L	104	1.2	SW846 6020	03/16-03/22/12	MRE721A5
			Dilution Factor: 1						
Arsenic									
	5.0	1000	984	ug/L	98		SW846 6020	03/16-03/22/12	MRE721A6
	5.0	1000	986	ug/L	98	0.27	SW846 6020	03/16-03/22/12	MRE721A7
			Dilution Factor: 1						
Barium									
	36.1	1000	1040	ug/L	100		SW846 6020	03/16-03/22/12	MRE721A8
	36.1	1000	1050	ug/L	102	1.5	SW846 6020	03/16-03/22/12	MRE721A9
			Dilution Factor: 1						
Beryllium									
	ND	1000	1080	ug/L	108		SW846 6020	03/16-03/22/12	MRE721AU
	ND	1000	1110	ug/L	111	2.2	SW846 6020	03/16-03/22/12	MRE721AV
			Dilution Factor: 1						
Boron									
	30.9	1000	1220	ug/L	119		SW846 6020	03/16-03/22/12	MRE721AW
	30.9	1000	1270	ug/L	124	3.9	SW846 6020	03/16-03/22/12	MRE721AX
			Dilution Factor: 1						
Cadmium									
	ND	1000	991	ug/L	99		SW846 6020	03/16-03/27/12	MRE721A0
	ND	1000	1000	ug/L	100	1.2	SW846 6020	03/16-03/27/12	MRE721A1
			Dilution Factor: 1						
Chromium									
	5.6	1000	968	ug/L	96		SW846 6020	03/16-03/22/12	MRE721CU
	5.6	1000	972	ug/L	97	0.38	SW846 6020	03/16-03/22/12	MRE721CV
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1259 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt									
	ND	1000	981	ug/L	98		SW846 6020	03/16-03/22/12	MRE721CA
	ND	1000	981	ug/L	98	0.04	SW846 6020	03/16-03/22/12	MRE721CC
			Dilution Factor: 1						
Copper									
	0.78	1000	956	ug/L	96		SW846 6020	03/16-03/22/12	MRE721CD
	0.78	1000	960	ug/L	96	0.38	SW846 6020	03/16-03/22/12	MRE721CE
			Dilution Factor: 1						
Lead									
	0.34	1000	1030	ug/L	103		SW846 6020	03/16-03/22/12	MRE721CF
	0.34	1000	1050	ug/L	105	2.0	SW846 6020	03/16-03/22/12	MRE721CG
			Dilution Factor: 1						
Molybdenum									
	3.2	1000	1020	ug/L	102		SW846 6020	03/16-03/22/12	MRE721CH
	3.2	1000	1030	ug/L	103	0.41	SW846 6020	03/16-03/22/12	MRE721CJ
			Dilution Factor: 1						
Selenium									
	2.7	1000	973	ug/L	97		SW846 6020	03/16-03/22/12	MRE721CK
	2.7	1000	975	ug/L	97	0.23	SW846 6020	03/16-03/22/12	MRE721CL
			Dilution Factor: 1						
Silver									
	ND	100	103	ug/L	103		SW846 6020	03/16-03/22/12	MRE721CM
	ND	100	103	ug/L	103	0.34	SW846 6020	03/16-03/22/12	MRE721CN
			Dilution Factor: 1						
Thallium									
	1.2	1000	1030	ug/L	103		SW846 6020	03/16-03/22/12	MRE721CP
	1.2	1000	1060	ug/L	106	3.0	SW846 6020	03/16-03/22/12	MRE721CQ
			Dilution Factor: 1						
Tin									
	1.0	1000	1040	ug/L	104		SW846 6020	03/16-03/22/12	MRE721CR
	1.0	1000	1060	ug/L	106	1.4	SW846 6020	03/16-03/22/12	MRE721CT
			Dilution Factor: 1						

NOTE(S):

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

WET CHEMISTRY

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K5D6

General Chemistry

Lot-Sample #...: F2C150414-002 Work Order #...: MRE7K Matrix.....: WATER
Date Sampled...: 03/14/12 Date Received..: 03/15/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	19.1 D	4.0	mg/L	MCAWW 300.0A	03/16/12	2075049
		Dilution Factor: 20		MDL.....: 0.40		
Fluoride	0.056 B	0.10	mg/L	MCAWW 300.0A	03/16/12	2075050
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	17.0 D	0.40	mg/L	MCAWW 300.0A	03/16/12	2075053
		Dilution Factor: 20		MDL.....: 0.17		
Nitrogen, Nitrite	ND	0.020	mg/L	MCAWW 300.0A	03/16/12	2075052
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	82.3 D	10.0	mg/L	MCAWW 300.0A	03/16/12	2075051
		Dilution Factor: 20		MDL.....: 1.0		
Total Alkalinity	63.0	5.0	mg/L	MCAWW 310.1	03/28/12	2088037
		Dilution Factor: 1		MDL.....: 0.54		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JY24

General Chemistry

Lot-Sample #...: F2C150419-002 Work Order #...: MRE7V Matrix.....: WATER
Date Sampled...: 03/14/12 Date Received..: 03/15/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	17.7 D	4.0	mg/L	MCAWW 300.0A	03/16/12	2075049
		Dilution Factor: 20		MDL.....: 0.40		
Fluoride	0.22	0.10	mg/L	MCAWW 300.0A	03/16/12	2075050
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	5.5 D	0.40	mg/L	MCAWW 300.0A	03/16/12	2075053
		Dilution Factor: 20		MDL.....: 0.17		
Nitrogen, Nitrite	ND	0.020	mg/L	MCAWW 300.0A	03/16/12	2075052
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	47.0 D	10.0	mg/L	MCAWW 300.0A	03/16/12	2075051
		Dilution Factor: 20		MDL.....: 1.0		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JN32

General Chemistry

Lot-Sample #...: F2C150421-001 Work Order #...: MRE7X Matrix.....: WATER
Date Sampled...: 03/14/12 Date Received..: 03/15/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	20.6 D	4.0	mg/L	MCAWW 300.0A	03/16/12	2075049
		Dilution Factor: 20		MDL.....: 0.40		
Fluoride	0.24	0.10	mg/L	MCAWW 300.0A	03/16/12	2075050
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	3.0 D	0.40	mg/L	MCAWW 300.0A	03/16/12	2075053
		Dilution Factor: 20		MDL.....: 0.17		
Nitrogen, Nitrite	ND	0.020	mg/L	MCAWW 300.0A	03/16/12	2075052
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	69.3 D	10.0	mg/L	MCAWW 300.0A	03/16/12	2075051
		Dilution Factor: 20		MDL.....: 1.0		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: MRGGT1AA		MB Lot-Sample #:	F2C150000-049	
	ND	0.20	mg/L	MCAWW 300.0A	03/16/12	2075049
		Dilution Factor: 1				
Fluoride		Work Order #: MRGGX1AA		MB Lot-Sample #:	F2C150000-050	
	ND	0.10	mg/L	MCAWW 300.0A	03/16/12	2075050
		Dilution Factor: 1				
Nitrogen, Nitrate		Work Order #: MRGG31AA		MB Lot-Sample #:	F2C150000-053	
	ND	0.020	mg/L	MCAWW 300.0A	03/16/12	2075053
		Dilution Factor: 1				
Nitrogen, Nitrite		Work Order #: MRGG21AA		MB Lot-Sample #:	F2C150000-052	
	ND	0.020	mg/L	MCAWW 300.0A	03/16/12	2075052
		Dilution Factor: 1				
Sulfate		Work Order #: MRGG01AA		MB Lot-Sample #:	F2C150000-051	
	ND	0.50	mg/L	MCAWW 300.0A	03/16/12	2075051
		Dilution Factor: 1				
Total Alkalinity		Work Order #: MRMQ61AA		MB Lot-Sample #:	F2C280000-037	
	ND	5.0	mg/L	MCAWW 310.1	03/28/12	2088037
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL1259 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #: MRGGT1AC		LCS Lot-Sample#:	F2C150000-049	
	2.00	1.95	mg/L	98	MCAWW 300.0A	03/15/12	2075049
			Dilution Factor: 1				
Fluoride			Work Order #: MRGGX1AC		LCS Lot-Sample#:	F2C150000-050	
	1.00	0.964	mg/L	96	MCAWW 300.0A	03/15/12	2075050
			Dilution Factor: 1				
Nitrogen, Nitrate			Work Order #: MRGG31AC		LCS Lot-Sample#:	F2C150000-053	
	0.400	0.393	mg/L	98	MCAWW 300.0A	03/15/12	2075053
			Dilution Factor: 1				
Nitrogen, Nitrite			Work Order #: MRGG21AC		LCS Lot-Sample#:	F2C150000-052	
	0.160	0.160	mg/L	100	MCAWW 300.0A	03/16/12	2075052
			Dilution Factor: 1				
Sulfate			Work Order #: MRGG01AC		LCS Lot-Sample#:	F2C150000-051	
	8.00	7.90	mg/L	99	MCAWW 300.0A	03/15/12	2075051
			Dilution Factor: 1				
Total Alkalinity			Work Order #: MRMQ61AC		LCS Lot-Sample#:	F2C280000-037	
	200	187	mg/L	94	MCAWW 310.1	03/28/12	2088037
			Dilution Factor: 1				
Total Alkalinity			Work Order #: MRMQ61AD		LCS Lot-Sample#:	F2C280000-037	
	400	375	mg/L	94	MCAWW 310.1	03/28/12	2088037
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL1259 **Matrix.....:** WATER
Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #...:		MRE7K1C8	MS Lot-Sample #:		F2C150414-002
	19.1	40.0	60.0 D	mg/L	102	MCAWW 300.0A	03/16/12	2075049
			Dilution Factor: 20					
Fluoride			Work Order #...:		MRE7K1DF	MS Lot-Sample #:		F2C150414-002
	0.056	2.00	2.10	mg/L	102	MCAWW 300.0A	03/16/12	2075050
			Dilution Factor: 1					
Nitrogen, Nitrate			Work Order #...:		MRE7K1DJ	MS Lot-Sample #:		F2C150414-002
	17.0	8.00	25.2 D	mg/L	102	MCAWW 300.0A	03/16/12	2075053
			Dilution Factor: 20					
Nitrogen, Nitrite			Work Order #...:		MRE7K1DH	MS Lot-Sample #:		F2C150414-002
	ND	0.100	0.100	mg/L	100	MCAWW 300.0A	03/16/12	2075052
			Dilution Factor: 1					
Sulfate			Work Order #...:		MRE7K1DG	MS Lot-Sample #:		F2C150414-002
	82.3	80.0	162 D	mg/L	99	MCAWW 300.0A	03/16/12	2075051
			Dilution Factor: 20					
Total Alkalinity			Work Order #...:		MRE7K1DP	MS Lot-Sample #:		F2C150414-002
	63.0	20.0	81.0	mg/L	90	MCAWW 310.1	03/28/12	2088037
			Dilution Factor: 1					

NOTE(S):

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

D Result was obtained from the analysis of a dilution.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F2C150414 **Work Order #...:** MRE7K-SMP MRE7K-DUP **Matrix.....:** WATER

Date Sampled...: 03/14/12 **Date Received..:** 03/15/12

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #:	F2C150414-002	
	19.1 D	18.1 D	mg/L	5.3	(0-20)	MCAWW 300.0A	03/16/12	2075049
			Dilution Factor: 20					
Fluoride						SD Lot-Sample #:	F2C150414-002	
	0.056 B	0.065 B	mg/L	15	(0-20)	MCAWW 300.0A	03/16/12	2075050
			Dilution Factor: 1					
Sulfate						SD Lot-Sample #:	F2C150414-002	
	82.3 D	82.4 D	mg/L	0.13	(0-20)	MCAWW 300.0A	03/16/12	2075051
			Dilution Factor: 20					
Nitrogen, Nitrite						SD Lot-Sample #:	F2C150414-002	
	ND	ND	mg/L	0	(0-20)	MCAWW 300.0A	03/16/12	2075052
			Dilution Factor: 1					
Nitrogen, Nitrate						SD Lot-Sample #:	F2C150414-002	
	17.0 D	16.7 D	mg/L	1.4	(0-20)	MCAWW 300.0A	03/16/12	2075053
			Dilution Factor: 20					
Total Alkalinity						SD Lot-Sample #:	F2C150414-002	
	63.0	63.0	mg/L	0.0	(0-20)	MCAWW 310.1	03/28/12	2088037
			Dilution Factor: 1					

NOTE(S):

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

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.