TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

W12-002

Lot #: F2D050422
SDG #: SL1263

Scot Fitzgerald

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

TESTAMERICA LABORATORIES, INC.

Jayna Awalt
Project Manager

April 23, 2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
MS B3-60
Richland, Washington 99352
April 26, 2012
Attention: Scot Fitzgerald

TestAmerica Laboratories, Inc.

SDG	: SL1263
Number of Samples	: 21 samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: April 11, 2012

II. Introduction

Between April 5, 2012 and April 11, 2012, 21 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.

The following SAFs are associated with this SDG: W12-002, I12-009, I12-016, W12-003, W12-004, I12-018

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: 2097097

The MS/MSD RPD is not within method acceptance criteria for 2-Butanone and 1-Butanol. MS/MSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix.
Affected Samples:
F2D050422 (1): B2KD26

The surrogate recovery is outside the upper QC limit for Toluene-d8, indicating a potential positive bias. There were no target analytes associated with this surrogate detected above the reporting limit in the sample; therefore the sample data was not adversely affected by this excursion. The original sample results are provided.
Affected Samples:
F2D050422 (1): B2KD26

Batch: 2101032

The CCV %D for Methyl methacrylate is outside the established QC limits. This analyte was not detected in the associated samples and thus this excursion does not effect the sample data. Sample results are reported.
Affected Samples:
F2D060434 (3): B2K4P3
F2D060437 (2): B2K5K9
F2D060437 (3): B2K5L0
F2D100430 (1): B2K468

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Semivolatiles

Batch: 2097037

The CCV recovery was outside the upper QC limit (greater than 20% D) for Famphur indicating a potential high bias for this analyte in the samples associated with this CCV. This analyte was not detected above the reporting limit in the associated samples.
Affected Samples:
F2D050425 (1): B2KFJ3
F2D050425 (2): B2KFF9
F2D050425 (3): B2KFD5
F2D060434 (3): B2K4P3

Batch: 2100122

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:
F2D060434 (3): B2K4P3

Pesticides

Batch: 2101077

The LCS DCB surrogate recovery is outside acceptance limits. LCS spike recoveries are within QC limits demonstrating acceptable sample extraction and instrument performance.
Affected Samples:
F2D050425 (1): B2KFJ3
F2D050425 (2): B2KFF9
F2D050425 (3): B2KFD5

The MS/MSD recoveries for delta-BHC are outside the upper QC limits, indicating a potential positive bias for this analyte. This analyte was not detected above the reporting limit in the associated samples; therefore the sample data was not adversely affected by this excursion. This analyte has been qualified accordingly with an "N" flag in the associated samples.
Affected Samples:
F2D050425 (1): B2KFJ3
F2D050425 (2): B2KFF9
F2D050425 (3): B2KFD5

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PAHs

Batch: 2097038

The target analyte Anthracene detected in the associated samples was 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:
F2D050425 (1): B2KFJ3
F2D050425 (2): B2KFF9
F2D050425 (3): B2KFD5

ICPMS Metals

Batch: 2096089

Boron, Silver and Tin were detected in the method blank above the method detection limit but below the reporting limit. These analytes have been qualified accordingly with a "C" flag in the associated sample.
Affected Samples:
F2D050424 (1): B2JYC6

Due to LDR failures, the LDR has been lowered for Beryllium (1000ppb). The LCS and the MS/MSD were above the LDR. The LCS and MS/MSD were within acceptable QC limits. The MS/MSD are reported as estimated values.
Affected Samples:
F2D050424 (1): B2JYC6

Batch: 2096088

Silver and Boron were detected in the method blank above the method detection limit but below the reporting limit. These analytes were qualified accordingly with a "C" flag in the associated sample.
Due to LDR failures, the LDR has been lowered for Beryllium (1000ppb). The LCS was above the LDR. The LCS and MS/MSD's were within acceptable QC limits.
Affected Samples:
F2D050424 (2): B2JYC1

Copper was detected in the method blank above the method detection limit but below the reporting limit. The analyte concentration in the associated sample is 5 times the concentration detected in the method blank making qualifiers unnecessary.
Affected Samples:
F2D050424 (2): B2JYC1

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Due to LDR failures, the LDR has been lowered for Beryllium (1000ppb). The LCS was above the LDR. The LCS and MS/MSD's were within acceptable QC limits.
Affected Samples:
F2D050424 (2): B2JYC1

ICP Metals

Batch: 2102113

Analysis of the sample designated for MS/MSD is at a sufficiently high concentration of Calcium (which interferes with Strontium), so that the MS/MSD's are above the instrument's calibration range. MS/MSD results are reported as estimated values.
Affected Samples:
F2D100426 (1): B2JYH9

Batch: 2102114

Analysis of the sample designated for MS/MSD is at a sufficiently high concentration of Calcium (which interferes with Strontium), so that the MS/MSD's are above the instrument's calibration range. MS/MSD results are reported as estimated values.
Affected Samples:
F2D100426 (2): B2JYH5

Ion Chromatography

Batches: 2096061 - 2096065

The samples were analyzed at a dilution for Nitrate and Sulfate due to high concentrations of target analytes. These analytes are qualified with a "D" flag in the associated samples.
Affected Samples:
F2D050424 (2): B2JYC1

Batches: 2101067 – 2101071

The associated samples were analyzed at dilution due to high concentrations of the target analytes for Chloride, Sulfate and Nitrate. The reporting limit has been adjusted only for those targets reported from the dilution run. These analytes have been qualified accordingly with a "D" flag in the associated samples.
Affected Samples:
F2D100426 (2): B2JYH5

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There were no observations or nonconformances for the following methods:

Total Sulfide

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:

Jayna Awalt

Jayna Awalt
St. Louis Project Manager

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-319
REV NUM	0
DATE INITIATED	7/30/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	Multiple
OPERABLE UNIT(S)	Multiple
PROJECT(S)	Multiple
SAMPLE EVENT TITLE(S)	Multiple
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	Multiple
SAMPLE NUMBERS	Multiple
SAMPLE MATRIX	WATER
COLLECTION DATE	1/27/2009 – 7/30/2012
SDG NUM	See Attachment 2

ISSUE BACKGROUND

CLASS General Laboratory Direction

TYPE Clarification of Direction

DESCRIPTION

Through the current date, 7/30/2012, chain-of-custody paperwork originated by Sample Management and Reporting has requested EPA method 8040 (8040_PHENOLIC_GC) when requesting sample analysis for phenols by gas chromatography.

TestAmerica St. Louis laboratory has provided sample analysis for phenols by EPA method 8041A since February 9, 2009 (see Attachment 1 email "Phenol 8041 effective date", Mike Franks to JG Douglas, dated 7/30/2012).

The SDG numbers for the data packages affected by the change from method 8040 to 8041A are listed in Attachment 2 to this SIR. These data packages date from 2/24/2009 to the date this SIR was initiated (7/30/2012). Any additional TASL data packages yet to be released that indicate phenols were requested by method 8040 but were actually analyzed by 8041A also come under the purview of this SIR.

DISPOSITION

DESCRIPTION

Proposed Disposition:

(1) SMR personnel will insert a copy of this SIR and its attachments into the electronic copies of the data packages listed in Attachment 2 of this SIR. Electronic copies of the revised data packages will be sent to TASL.

AND

(2) For any yet-to-be-released data packages for which the COC paperwork requests method 8040, TASL personnel will insert a copy of this SIR and its attachments in the affected data package and will note in the data package case narrative that method 8041A was performed in place of the requested method 8040.

JUSTIFICATION

Accepted Disposition: Accept Proposed Disposition

Submitted by: JG Douglas / CHPRC Date: 7/30/2012

Accepted by: Chenise Y. Lambert-Sykes / TASL Date: 8/1/2012

SIR SDR 12-319 Attachment 1:
TASL Effective Start Date for Method 8041 Phenols

Douglas, James G (Jim)

From: Franks, Mike <Mike.Franks@testamericainc.com>
Sent: Monday, July 30, 2012 9:44 AM
To: Douglas, James G (Jim); Puckett, Susan
Cc: Lambert-Sykes, Chenise
Subject: Phenol 8041 effective date

Good morning,
TestAmerica St. Louis (TASL) began performing analysis of Phenols by method SW846 8041A on February 9, 2009.

Thank you.

Mike

Mike Franks
CSM

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

13715 Rider Trail North
St. Louis, MO 63045
314-298-8566|Fax: 314-298-8757
www.testamericainc.com

SIR SDR 12-319 Attachment 2:
TASL SDG Numbers with Method 8041 Phenol Results

SDG	DATE COMPLETED
SL780	20090224
SL781	20090304
SL783	20090331
SL784	20090407
SL785	20090430
SL786	20090430
SL787	20090422
SL788	20090511
SL790	20090526
SL799	20090617
SL813	20090828
SL825	20091103
SL833	20091208
SL844	20100127
SL850	20100215
SL854	20100222
SL868	20100311
SL879	20100312
SL896	20100524
SL903	20100505
SL907	20100511
SL910	20100511
SL930	20100622
SL934	20100707
SL945	20100806
SL962	20100908
SL1011	20101229
SL1023	20110112
SL1024	20110113
SL1033	20110131
SL1037	20110222
SL1041	20110301

SDG	DATE COMPLETED
SL1063	20110405
SL1065	20110422
SL1067	20110429
SL1073	20110531
SL1076	20110607
SL1078	20110614
SL1082	20110705
SL1084	20120223
SL1086	20110718
SL1087	20110718
SL1091	20110725
SL1093	20110811
SL1100	20110912
SL1108	20110921
SL1148	20111109
SL1152	20111109
SL1194	20120127
SL1218	20111214
SL1223	20111214
SL1237	20120127
SL1239	20120206
SL1242	20120104
SL1244	20120130
SL1247	20120221
SL1258	20120316
SL1263	20120419
SL1265	20120430
SL1266	20120430
SL1267	20120508
SL1268	20120518
SL1274	20120627
SL1275	20120705

METHODS SUMMARY

SL1263

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
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	
Nitrate as NO3	MCAWW 300.0A	
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Organochlorine Pesticides	SW846 8081A	SW846 3520C
Phenols by GC	SW846 8040A	SW846 3520
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
Sulfide	SW846 9030	
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

SL1263 : F2D050422

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRTEN	001	B2KD26	04/03/12	08:59

NOTE(S):

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- 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

SL1263 : F2D050424

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRTEQ	001	B2JYC6	04/04/12	09:59
MRTER	002	B2JYC1	04/04/12	09:59

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

SL1263 : F2D050425

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRTE2	001	B2KFJ3	04/03/12	08:59
MRTFA	002	B2KFF9	04/03/12	00:06
MRTFE	003	B2KFD5	04/03/12	11:03

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

SL1263 : F2D060434

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRVAL	001	B2K4J8	04/04/12	07:45
MRVAT	002	B2K4J9	04/04/12	13:23
MRVAV	003	B2K4P3	04/04/12	15:03

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

SL1263 : F2D060436

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRVDC	001	B2L243	04/04/12	13:23

NOTE(S):

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SAMPLE SUMMARY

SL1263 : F2D060437

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRVDG	001	B2K5P8	04/04/12	11:00
MRVDH	002	B2K5K9	04/04/12	07:45
MRVDJ	003	B2K5L0	04/04/12	13:23

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

SL1263 : F2D100426

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRWQN	001	B2JYH9	04/09/12	11:05
MRWQQ	002	B2JYH5	04/09/12	11:05

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SAMPLE SUMMARY

SL1263 : F2D100430

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRWR4	001	B2K468	04/05/12	08:17

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

SL1263 : F2D100431

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRWR7	001	B2KKF0	04/05/12	11:39
MRWR9	002	B2KKF5	04/05/12	10:13
MRWTA	003	B2L1Y2	04/05/12	12:19
MRWTD	004	B2L244	04/05/12	08:17

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

SL1263 : F2D110423

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRXJT	001	B2K4N6	04/09/12	09:40

NOTE(S):

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- 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 #SL1263

CH2MHill Plateau Remediation Company SL1263 CWL458	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-002-199 Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-002	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, FEBRUARY 2012	**Logbook No.**	HNF-N-506 45 / 68	**Ice Chest No.**	GWS-050
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 4850 3310
Protocol	RCRA	**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 ☐

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
B2KD26	N	W	4/03/12	0859	1x20-mL P	Activity Scan	6 Months	None
B2KD26	N	W	↓	↓	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C

AUGUST 2, 2012

REVISION 1
TestAmerica - St. Louis

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
FM Hall CHPRC		APR 0 3 2012 1304	SSC # 1		APR 0 3 2012 1402
SSC # 1		APR 0 4 2012 0730	KC Patterson CHPRC		APR 0 4 2012 0730
KC Patterson CHPRC		APR 0 4 2012 1500	FEDEX		Date/Time
Fed Ex		Date/Time	NICHOLAS OWENS		4/5/12 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

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Print page | Close

FedEx

Detailed Results

Tracking no.: 798248503310 Select time format: **12H24H** E-mail notifications

Delivered

Delivered
Signed for by: S.WILSON

Shipment Dates	Destination
Ship date	EARTH CITY, MO
Delivery date	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	Pi
Weight	74.0 lbs/33.6 kg	Reference	GWSC-050	D
Status				St

Shipment Travel History

Select time zone: Others:

All shipment travel activity is displayed in local time for the location. To display the shipment travel activity in local time of the scan, please select "Local Scan Time" time zone option. **Alert**: To determine the destination time zone for this shipment please select from the Others list. **Alert**: To determine the origin time zone for this shipment please select from the Others list.

No entries found

Date/Time	Activity	Location	Details

REVISION 1

AUGUST ~~2~~, 2012

TestAmerica - St. Louis

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 4 5 8

Lot #(s): F2D050422, F2D050424, F2D050425

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: SEE BELOW

Initiated By: NJO Date: 4/5/12 Time: 0930

Shipping Information

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

Shipping # (s):*				Sample Temperature (s):**			
1.	7982 4720 5282	6.		1.	2	6.	
2.	7982 4850 3310	7.		2.	2	7.	
3.		8.		3.		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:

I12-016-041
037
039
I12-009-055
W12-002199

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: 4/9/12

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.

SDG #SL1263

CH2MHill Plateau Remediation Company SL1263 CWL458	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-009-055
		Page 1 of 1

Collector	B.E. Briggs 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 45169	**Ice Chest No.**	GWS-050
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 4880 3310
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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2JYC6	Y	W	4/04/12	0959	1x500-mL G/P	6020_METALS_ICPMS: DURA LIST (10)	6 Months	HNO3 to pH <2
B2JYC1	N	W	↓	↓	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2JYC1	N	W			1x500-mL G/P	6020_METALS_ICPMS: DURA LIST (10)	6 Months	HNO3 to pH <2
B2JYC1	N	W			1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
B.E. Briggs CHPRC	B Briggs		APR 04 2012 1000	FEDEX			APR 04 2012
Relinquished By	FedEx		Date/Time	Received By	NICHOLAS OWENS		4/5/12 0930
Relinquished By			Date/Time	Received By			Date/Time
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

PRINTED O 12/14/2011

A-6004-842 (REV 2)

AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

Print page | Close

FedEx

Detailed Results

Tracking no.: 798248503310 Select time format: **12H24H** E-mail notifications

Delivered

Delivered
Signed for by: S.WILSON

Shipment Dates	Destination
Ship date	EARTH CITY, MO
Delivery date	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	74.0 lbs/33.6 kg	Reference	GWSC-050
Status			

Shipment Travel History

Select time zone: Others:

All shipment travel activity is displayed in local time for the location To display the shipment travel activity in local time of the scan, please select "Local Scan Time" time zone option. **Alert**: To determine the destination time zone for this shipment please select from the Others list. **Alert**: To determine the origin time zone for this shipment please select from the Others list.

No entries found

Date/Time	Activity	Location	Details

REVISION 1

AUGUST 2, 2012

TestAmerica - St. Louis

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 4 5 8

Lot #(s): ~~F2D0504622~~ F2D050424 ~~F2D050435~~

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: SEE BELOW

Initiated By: NJO Date: 4/5/12 Time: 0930

Shipping Information

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

Shipping # (s):*

1. 7982 4720 5282
2. 7982 4850 3310
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Sample Temperature (s):**

1. 2
2. 2
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
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:

~~I12-016-041~~

037

~~039~~

~~I12-009-055~~

~~W12-002199~~

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: 4/6/12

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.

SDG #SL1263

CH2MHill Plateau Remediation Company CHL458 SL1263

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I12-016-041

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 45/68	**Ice Chest No.**	GWS-288
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 4720 5282
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 ☐

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
B2KFJ3	N	W	4/03/12	0859	2x1-L aG	8081_PEST_GC: List-1 (19)	14/40 Days	Cool<6C
B2KFJ3	N	W	↓	↓	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2KFJ3	N	W			3x1-L aG	8270_SVOA_GCMS_IX: List-1 (123)	7/40 Days	Cool~4C
B2KFJ3	N	W			2x1-L aG	8310_SVOA_HPLC	14/40 Days	Cool~4C
B2KFJ3	N	W			1x20-mL P	Activity Scan	6 Months	None

AUGUST 2, 2012

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FM Hall CHPRC			APR 0 3 2012 1405	SSU #1			APR 0 3 2012 1405
SSU #1			APR 0 4 2012 0730	KC Patterson CHPRC			APR 0 4 2012 0730
KC Patterson CHPRC			APR 0 4 2012 1500	FEDEX			
Fed Ex				NICHOLAS OWENS			4/05/12 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 3/1/2012

A-6004-842 (REV 2)

REVISION 1
TestAmerica - St. Louis

SDG #SL1263

AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

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CH2MHill Plateau Remediation Company SL1263	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-016-039
		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 / 68	**Ice Chest No.**	GWS-288
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 4720 5282
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 ☐

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
B2KFF9	N	W	4/03/12	1206	2x1-L aG	8081_PEST_GC: List-1 (19)	14/40 Days	Cool<6C
B2KFF9	N	W	↓	↓	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2KFF9	N	W			3x1-L aG	8270_SVOA_GCMS_IX: List-1 (123)	7/40 Days	Cool~4C
B2KFF9	N	W			2x1-L aG	8310_SVOA_HPLC	14/40 Days	Cool~4C
B2KFF9	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	FM Hall	APR 0 3 2012 1405	SSU # 1		APR 0 3 2012 1405
SSU # 1		APR 0 4 2012 0730	KC Patterson CHPRC	KC Patterson	APR 0 4 2012 0730
KC Patterson CHPRC	KC Patterson	APR 0 4 2012 1500	FEDEX		
Fed Ex			NICHOLAS OWENS		4/5/12 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 3/1/2012

A-6004-842 (REV 2)

SDG #SL1263

AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

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CH2MHill Plateau Remediation Company SL1263 CWL 458	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-016-037 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 45/68	**Ice Chest No.**	GWS-050
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 4850 3310
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 ☐

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
B2KFD5	N	W	4/03/12	1103	2x1-L aG	8081_PEST_GC: List-1 (19)	14/40 Days	Cool<6C
B2KFD5	N	W	↓	↓	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2KFD5	N	W			3x1-L aG	8270_SVOA_GCMS_IX: List-1 (123)	7/40 Days	Cool~4C
B2KFD5	N	W			2x1-L aG	8310_SVOA_HPLC	14/40 Days	Cool~4C
B2KFD5	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			APR 0 3 2012 1405	SSA #1			APR 0 3 2012 1405
SSA #1			APR 0 4 2012 0730	KC Patterson CHPRC			APR 0 4 2012 0730
KC Patterson CHPRC			APR 0 4 2012 1500	FEDEX			Date/Time
FedEx			Date/Time	NICHOLAS OWENS		4/5/12	Date/Time 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 3/1/2012

A-6004-842 (REV 2)

Print page | Close

FedEx

Detailed Results

Tracking no.: 798247205282 Select time format: **12H**

Delivered

Delivered
Signed for by: S.WILSON

Shipment Dates	Destination
Ship date Apr 4, 2012	EARTH CITY, MO
Delivery date Apr 5, 2012 9:21 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	84.0 lbs/38.1 kg	Reference	GWS-288

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
Apr 5, 2012 9:21 AM	**Delivered**	EARTH CITY, MO	
Apr 5, 2012 7:36 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 5, 2012 7:30 AM	At local FedEx facility	EARTH CITY, MO	
Apr 5, 2012 5:26 AM	At destination sort facility	BERKELEY, MO	
Apr 5, 2012 4:39 AM	Departed FedEx location	MEMPHIS, TN	
Apr 5, 2012 12:58 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 4, 2012 5:16 PM	Left FedEx origin facility	PASCO, WA	
Apr 4, 2012 4:08 PM	Picked up	PASCO, WA	
Apr 4, 2012 12:08 PM	Shipment information sent to FedEx		

Print page | Close

FedEx

Detailed Results

Tracking no.: 798248503310 Select time format: **12H24H** E-mail notifications

Delivered

Delivered
Signed for by: S.WILSON

Shipment Dates	Destination
Ship date	EARTH CITY, MO
Delivery date	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	Pi
Weight	74.0 lbs/33.6 kg	Reference	GWSC-050	Da
Status				Sl

Shipment Travel History

Select time zone: Others:

All shipment travel activity is displayed in local time for the location To display the shipment travel activity in local time of the scan, please select "Local Scan Time" time zone option. **Alert:** To determine the destination time zone for this shipment please select from the Others list. **Alert:** To determine the origin time zone for this shipment please select from the Others list.

No entries found

Date/Time	Activity	Location	Details

REVISION 1

AUGUST 2, 2012

TestAmerica - St. Louis

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 4 5 8

Lot #(s): F2D050422, F2D050424, F2D050425

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 40029

COC/RFA No: SEE BELOW

Initiated By: NJO Date: 4/5/12 Time: 0930

Shipping Information

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

Shipping # (s):*				Sample Temperature (s):**			
1.	7982 4720 5282	6.		1.	2	6.	
2.	7982 4850 3310	7.		2.	2	7.	
3.		8.		3.		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:

I12-016-041
037
039
L12-009-055
W12-002 199

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

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

Project Management Review: Jayna Arndt Date: 4/9/12

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.

SDG #SL1263

CH2MHill Plateau Remediation Company SL1263 CWL 417

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W12-003-092

Page 1 of 1

Collector	FM Hall 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 47/42	**Ice Chest No.**	GWS 012
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 2153 9157
Protocol	RCRA	**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 ☐

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
B2K4J8	N	W	4/4/12	0745	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2K4J8	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		APR 04 2012 1530	SSL #1		APR 04 2012 1530
SSL #1		APR 05 2012 0800	DON BROTHERTON / CHPRC		APR 05 2012 0800
DON BROTHERTON / CHPRC		APR 05 2012 1400	FED EX		
FedEx			NICHOLAS OWENS		4/6/12 0915

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

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A-6004-842 (REV 2)

AUGUST 2, 2012

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CH2MHill Plateau Remediation Company SL1263	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-003-093
		Page 1 of 1

Collector	FM Hall 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 47/42	**Ice Chest No.**	GWS - 012
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 2153 9157
Protocol	RCRA	**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 ☐

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
B2K4J9	N	W	4/4/12	1323	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2K4J9	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		APR 04 2012 1530	SSL# 1		APR 04 2012 1530
SSL# 1		APR 05 2012 0800	DON BROTHERTON / CHPRC		APR 05 2012 0800
DON BROTHERTON / CHPRC		APR 05 2012 1400	FED EX		
FedEx			WC THOMAS OWENS		4/6/12 0915

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

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SDG #SL1263

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CH2MHill Plateau Remediation Company SL1263	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-003-099
		Page 1 of 1

SDG #SL1263

Collector	FM Hall 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 47/42	**Ice Chest No.**	GWS - 012
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 2153 9157
Protocol	RCRA	**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 ☐

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
B2K4P3	N	W	4/4/12	1503	4x40-mL aGs*	8260_VOA_GCMS: List-3 (56)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2K4P3	N	W	↓	↓	3x1-L aG	8270_SVOA_GCMS_IX: List-2 (124)	7/40 Days	Cool~4C
B2K4P3	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

AUGUST 2, 2012

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FM Hall CHPRC			APR 04 2012 1530	SSV #1			APR 04 2012 1530
SSV #1			APR 05 2012 0800	DON BROTHERTON / CHPRC			APR 05 2012 0800
DON BROTHERTON / CHPRC			APR 05 2012 1400	FED EX			
FedEx				NICHOLAS OWENS			4/6/12 0915

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)

REVISION 1
TestAmerica - St. Louis

Print page | Close

FedEx

Detailed Results

Tracking no.: 793421539157 Select time format: **12H**

Delivered

Delivered
Signed for by: N.OWENS

Shipment Dates	Destination
Ship date Apr 5, 2012	EARTH CITY, MO
Delivery date Apr 6, 2012 9:15 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	79.0 lbs/35.8 kg	Reference	GWS-012

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
Apr 6, 2012 9:15 AM	**Delivered**	EARTH CITY, MO	
Apr 6, 2012 7:03 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 6, 2012 6:57 AM	At local FedEx facility	EARTH CITY, MO	
Apr 6, 2012 5:33 AM	At destination sort facility	BERKELEY, MO	
Apr 6, 2012 4:49 AM	Departed FedEx location	MEMPHIS, TN	
Apr 6, 2012 12:27 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 5, 2012 5:09 PM	Left FedEx origin facility	PASCO, WA	
Apr 5, 2012 4:05 PM	Picked up	PASCO, WA	
Apr 5, 2012 11:09 AM	Shipment information sent to FedEx		

REVISION 1
AUGUST 2, 2012 TestAmerica - St. Louis

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 4 1 7

Lot #(s): F2D060434, F2D060436, F2D060437

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: SEE BELOW

Initiated By: NVO Date: 4/6/12 Time: 0915

Shipping Information

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

Shipping # (s):*

1. 7934 2153 9157
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Sample Temperature (s):**

1. 2
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
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:

I12-018-028
↓ ↓ 022
↓ ↓ 023
W12-004-168
W12-003-092
↓ ↓ 093
↓ ↓ 099

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

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

Project Management Review: Tanya Awalt Date: 4/10/12

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.

SDG #SL1263

SL1263

CH2MHill Plateau Remediation Company CWC 417

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W12-004-168

Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 47/42	**Ice Chest No.**	GWS-012
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 2153 9154
Protocol	RCRA	**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 ☐

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
B2L243	N	W	4/4/12	1323	1x20-mL P	Activity Scan	6 Months	None
B2L243	N	W	↓	↓	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
FM Hall CHPRC	[signature]	APR 04 2012 1530	SSL #1		APR 04 2012 1530
SSL #1		APR 05 2012 0800	DON BROTHERTON / CHPRC	[signature]	APR 05 2012 0800
DON BROTHERTON / CHPRC	[signature]	APR 05 2012 1410	FED EX	[signature]	
FedEx			NICHOLAS OWENS	[signature]	4/6/12 0915

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 3/20/2012

A-6004-842 (REV 2)

AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

Print page | Close

FedEx

Detailed Results

Tracking no.: 793421539157 Select time format: **12H**

Delivered

Delivered
Signed for by: N.OWENS

Shipment Dates	Destination
Ship date Apr 5, 2012	EARTH CITY, MO
Delivery date Apr 6, 2012 9:15 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	79.0 lbs/35.8 kg	Reference	GWS-012

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
Apr 6, 2012 9:15 AM	**Delivered**	EARTH CITY, MO	
Apr 6, 2012 7:03 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 6, 2012 6:57 AM	At local FedEx facility	EARTH CITY, MO	
Apr 6, 2012 5:33 AM	At destination sort facility	BERKELEY, MO	
Apr 6, 2012 4:49 AM	Departed FedEx location	MEMPHIS, TN	
Apr 6, 2012 12:27 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 5, 2012 5:09 PM	Left FedEx origin facility	PASCO, WA	
Apr 5, 2012 4:05 PM	Picked up	PASCO, WA	
Apr 5, 2012 11:09 AM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 4 1 7

Lot #(s): F2D060434, F2D060436, F2D060437

CONDITION UPON RECEIPT FORM

Client: CHPRC
Quote No: 90029
COC/RFA No: SEE BELOW
Initiated By: NVO Date: 4/6/12 Time: 0915

Shipping Information

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

Shipping # (s):*				Sample Temperature (s):**			
1.	7934 2153 9157	6.		1.	2	6.	
2.		7.		2.		7.	
3.		8.		3.		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:

I12-018-028
022
023
W12-004-168
W12-003-092
093
099

Corrective Action:
☐ Client Contact Name: _____ Informed by: _____
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: _____ If released, notify: _____
Project Management Review: Jayna Arnwalt Date: 4/10/12

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.

SDG #SL1263

CH2MHill Plateau Remediation Company CHL417 SL1263

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I12-018-028

Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	I12-018	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	2ZP1, MARCH 2012	**Logbook No.**	HNF-N-506 47142	**Ice Chest No.**	GWS-012
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 2153 9157
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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2K5P8	N	W	4/4/12	1100	3x500-mL G/P	9030_SULFIDE: Sulfide (1)	7 Days	ZnAc+NaOH to pH > 9/Cool~4C
B2K5P8	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			APR 04 2012 1530	SSC #1			APR 04 2012 1530
SSC #1			APR 05 2012 0800	DON BROTHERTON / CHPRC			APR 05 2012 0800
D[illegible]ON / CHPRC			APR 05 2012 1400	FED EX			
FedEx				NICHOLAS OWENS			4/6/12 0915

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

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SDG #SL1263

CH2MHill Plateau Remediation Company SL4263	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-018-022
		Page 1 of 1

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Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	I12-018	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	2ZP1, MARCH 2012	**Logbook No.**	HNF-N-506 47/42	**Ice Chest No.**	GWS-012
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 2153 9154
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
B2K5K9	N	W	4/4/12	0745	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2K5K9	N	W	↓	↓	3x500-mL G/P	9030_SULFIDE: Sulfide (1)	7 Days	ZnAc+NaOH to pH > 9/Cool~4C
B2K5K9	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		APR 04 2012 1530	SSL #1		APR 04 2012 1530
SSL #1		APR 05 2012 0800	DON BROTHERTON / CHPRC		APR 05 2012 0800
DON BROTHERTON / CHPRC		APR 05 2012 1700 0800	FED EX		
FedEx			Nicholas Owens		4/6/12 0815

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 3/26/2012

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TestAmerica - St. Louis

SDG #SL1263

CH2MHill Plateau Remediation Company SL1263	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-018-023 Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	I12-018	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	2ZP1, MARCH 2012	**Logbook No.**	HNF-N-506 47/42	**Ice Chest No.**	GWS - 012
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 2153 9157
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
B2K5L0	N	W	4/4/12	1323	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2K5L0	N	W	↓	↓	3x500-mL G/P	9030_SULFIDE: Sulfide (1)	7 Days	ZnAc+NaOH to pH > 9/Cool~4C
B2K5L0	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			APR 04 2012 1530	SSL# 1			APR 04 2012 1530
Relinquished By			Date/Time	Received By			Date/Time
SSL# 1			APR 05 20120800	DON BROTHERTON / CHPRC			APR 05 20120800
Relinquished By			Date/Time	Received By			Date/Time
DON BROTHERTON / CHPRC			APR 05 2012 1400	FED EX			
Relinquished By			Date/Time	Received By			Date/Time
FedEx				Nicholas Owens			4/6/12 0915

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 2/9/2012

A-6004-842 (REV 2)

AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

Print page | Close

FedEx

Detailed Results

Tracking no.: 793421539157 Select time format: **12H**

Delivered

Delivered
Signed for by: N.OWENS

Shipment Dates	Destination
Ship date Apr 5, 2012	EARTH CITY, MO
Delivery date Apr 6, 2012 9:15 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	79.0 lbs/35.8 kg	Reference	GWS-012

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
Apr 6, 2012 9:15 AM	**Delivered**	EARTH CITY, MO	
Apr 6, 2012 7:03 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 6, 2012 6:57 AM	At local FedEx facility	EARTH CITY, MO	
Apr 6, 2012 5:33 AM	At destination sort facility	BERKELEY, MO	
Apr 6, 2012 4:49 AM	Departed FedEx location	MEMPHIS, TN	
Apr 6, 2012 12:27 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 5, 2012 5:09 PM	Left FedEx origin facility	PASCO, WA	
Apr 5, 2012 4:05 PM	Picked up	PASCO, WA	
Apr 5, 2012 11:09 AM	Shipment information sent to FedEx		

REVISION 1

AUGUST 2, 2012

TestAmerica - St. Louis

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 4 1 7

Lot #(s): F2D060434, F2D060436, F2D060437

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: SEE BELOW

Initiated By: NVO Date: 4/6/12 Time: 0915

Shipping Information

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

Shipping # (s):*				Sample Temperature (s):**			
1.	7934 2153 9157	6.		1.	2	6.	
2.		7.		2.		7.	
3.		8.		3.		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:

I12-018-028
↓ ↓ 022
↓ ↓ 023
W12-004-168
W12-003-092
↓ ↓ 093
↓ ↓ 099

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

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

Project Management Review: Jayna Arnold Date: 4/10/12

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.

SDG #SL1263

AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

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CH2MHill Plateau Remediation Company SL1263 CUR 201

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I12-009-056

Page 1 of 1

Collector	~~KE Hamilton~~ 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 45 / 72	**Ice Chest No.**	GWS-222-3
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 6117 5419
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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2JYH9	Y	W	4.9.12	1105	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2JYH5	N	W	↓	↓	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2JYH5	N	W			1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2JYH5	N	W			1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
~~KE Hamilton~~ CHPRC	Kenn E Hamilton	APR 09 2012 1115	K. Patterson		APR 09 2012 1115
K. Patterson		4/9/12 1500	FEDEX		
FedEx			NICHOLAS OWENS		4/10/12 0915

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.: 798261175419 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 9, 2012	EARTH CITY, MO
Delivery date Apr 10, 2012 9:12 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	80.0 lbs/36.3 kg	Reference	GWS-222-3

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
Apr 10, 2012 9:12 AM	**Delivered**	EARTH CITY, MO	
Apr 10, 2012 7:02 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 10, 2012 6:53 AM	At local FedEx facility	EARTH CITY, MO	
Apr 10, 2012 5:24 AM	At destination sort facility	BERKELEY, MO	
Apr 10, 2012 4:34 AM	Departed FedEx location	MEMPHIS, TN	
Apr 10, 2012 12:29 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 9, 2012 5:10 PM	Left FedEx origin facility	PASCO, WA	
Apr 9, 2012 4:15 PM	Picked up	PASCO, WA	
Apr 9, 2012 11:40 AM	Shipment information sent to FedEx		

REVISION 1

AUGUST 2, 2012 TestAmerica - St. Louis

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 2 0 1

Lot #(s): F2D100426, F2D100428, F2D100430, F2D100431

CONDITION UPON RECEIPT FORM

Client: CARC

Quote No: 90029

COC/RFA No: SEE BELOW

Initiated By: NVO Date: 4/10/12 Time: 0915

Shipping Information

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

Shipping # (s):*				Sample Temperature (s):**			
1.	7982 6117 5419	6.		1.	2	6.	
2.		7.		2.		7.	
3.		8.		3.		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:

I12-009-056
W12-003-081
W12-003-254
W12-004-046
-047
-167
-169

Corrective Action:

[ ] Client Contact Name: _____ Informed by: _____

[ ] Sample(s) processed "as is"

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

Project Management Review: Jayna Twalt Date: 4/12/12

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.

CH2MHill Plateau Remediation Company CWL 201 SL1263

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W12-003-081**

Page 1 of 1

SDG #SL1263

Collector	FM Hall 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 47/43	**Ice Chest No.**	GWS-222-3
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 6117 5419
Protocol	RCRA	**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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2K468	N	W	4/5/12	0817	4x40-mL aGs*	8260_VOA_GCMS: List-3 (56)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2K468	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FM Hall CHPRC			APR 0 5 2012 1510	SSU #1			APR 0 5 2012 1510
SSU #1			APR 0 9 2012 0820	KC Patterson CHPRC			APR 0 9 2012 0830
KC Patterson CHPRC			APR 0 9 2012 1500	FEDEX			
FedEx				NICHOLAS OWENS			4/10/12 0915

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)

Print page | Close

FedEx

Detailed Results

Tracking no.: 798261175419 Select time format: 12H

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 9, 2012	EARTH CITY, MO
Delivery date Apr 10, 2012 9:12 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	80.0 lbs/36.3 kg	Reference	GWS-222-3

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
Apr 10, 2012 9:12 AM	**Delivered**	EARTH CITY, MO	
Apr 10, 2012 7:02 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 10, 2012 6:53 AM	At local FedEx facility	EARTH CITY, MO	
Apr 10, 2012 5:24 AM	At destination sort facility	BERKELEY, MO	
Apr 10, 2012 4:34 AM	Departed FedEx location	MEMPHIS, TN	
Apr 10, 2012 12:29 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 9, 2012 5:10 PM	Left FedEx origin facility	PASCO, WA	
Apr 9, 2012 4:15 PM	Picked up	PASCO, WA	
Apr 9, 2012 11:40 AM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 2 0 1

Lot #(s): F2D100426, F2D100428, F2D100430, F2D100431

CONDITION UPON RECEIPT FORM

Client: CAPRC
Quote No: 90029
COC/RFA No: SEE BELOW
Initiated By: NVD Date: 4/10/12 Time: 0915

Shipping Information

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

Shipping # (s):*

1. 7982 6117 5419
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Sample Temperature (s):**

1. 2
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
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:

I12-009-056
W12-003-081
W12-003-254
W12-004-046
-047
-167
-169

Corrective Action:
☐ Client Contact Name: _____ Informed by: _____
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: _____ If released, notify: _____
Project Management Review: Jayna Arvalt Date: 4/12/12

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.

CH2MHill Plateau Remediation Company CWC 201 SL1263

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W12-004-046

Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 47 43	**Ice Chest No.**	GWS-222-3
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 6117 5419
Protocol	RCRA	**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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KKF0	N	W	4/5/12	1139	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2KKF0	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			APR 0 5 2012 1510	SSU #1			APR 0 5 2012 1510
SSU #1			APR 0 9 2012 0830	KC Patterson CHPRC			APR 0 9 2012 0830
KC Patterson CHPRC			APR 0 9 2012 1500	FEDEX			
FedEx				NICHOLAS OWENS			4/10/12 0915

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 3/5/2012

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SDG #SL1263
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TestAmerica - St. Louis

CH2MHill Plateau Remediation Company SL1263	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-047 Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 47/43	**Ice Chest No.**	GWS-222-3
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 6117 5419
Protocol	RCRA	**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 ☐

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
B2KKF5	N	W	4/5/12 ↓	1013 ↓	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2KKF5	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			APR 05 2012 1510	SSU #1			APR 05 2012 1510
SSU #1			APR 09 2012 0800	KC Patterson CHPRC			APR 09 2012 0800
KC Patterson CHPRC			APR 09 2012 1501	FEDEX			
FedEx				Nicholas Owens			4/10/12 0915

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 3/5/2012

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SDG #SL1263

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AUGUST 2, 2012

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TestAmerica - St. Louis

SDG #SL1263

CH2MHill Plateau Remediation Company SL1263	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-167 Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 47144	**Ice Chest No.**	GWS-222-3
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 6117 5419
Protocol	RCRA	**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 ☐

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
B2L1Y2	N	W	4/5/12	1219	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2L1Y2	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		APR 0 5 2012 1510	SSU #1		APR 0 5 2012 1510
SSU #1		APR 0 9 2012 0830	KC Patterson CHPRC		APR 0 9 2012 0830
KC Patterson CHPRC		APR 0 9 2012 1500	FEDEX		
FedEx			Nicholas Owens		4/10/12 0915

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 3/15/2012

A-6004-842 (REV 2)

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AUGUST 2, 2012

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TestAmerica - St. Louis

CH2MHill Plateau Remediation Company SL1263	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-169 Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 47 / 43	**Ice Chest No.**	GWS-222-3
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 6117 5419
Protocol	RCRA	**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 ☐

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
B2L244	N	W	4/5/12 ↓	0817 ↓	1x20-mL P	Activity Scan	6 Months	None
B2L244	N	W			4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FM Hall CHPRC			APR 05 2012 1510	SSU #1			APR 05 2012 1510
SSU #1			APR 09 2012 0830	KC Patterson CHPRC			APR 09 2012 0830
KC Patterson CHPRC			APR 09 2012 1520	FEDEX			
FedEx				Nicholas Owens			4/10/12 0915

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 3/20/2012

A-6004-842 (REV 2)

SDG #SL1263

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AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

Print page | Close

FedEx

Detailed Results

Tracking no.: 798261175419 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 9, 2012	EARTH CITY, MO
Delivery date Apr 10, 2012 9:12 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	80.0 lbs/36.3 kg	Reference	GWS-222-3

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
Apr 10, 2012 9:12 AM	**Delivered**	EARTH CITY, MO	
Apr 10, 2012 7:02 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 10, 2012 6:53 AM	At local FedEx facility	EARTH CITY, MO	
Apr 10, 2012 5:24 AM	At destination sort facility	BERKELEY, MO	
Apr 10, 2012 4:34 AM	Departed FedEx location	MEMPHIS, TN	
Apr 10, 2012 12:29 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 9, 2012 5:10 PM	Left FedEx origin facility	PASCO, WA	
Apr 9, 2012 4:15 PM	Picked up	PASCO, WA	
Apr 9, 2012 11:40 AM	Shipment information sent to FedEx		

REVISION 1
TestAmerica - St. Louis

AUGUST 2, 2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 2 0 1

Lot #(s): F2D100426, F2D100428, F2D100430, F2D100431

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: SEE BELOW

Initiated By: NVD Date: 4/10/12 Time: 0915

Shipping Information

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

Shipping # (s):*				Sample Temperature (s):**			
1.	7982 6117 5419	6.		1.	2	6.	
2.		7.		2.		7.	
3.		8.		3.		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:

I12-009-056
W12-003-081
W12-003-254
W12-004-046
-047
-167
-169

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

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

Project Management Review: Lynna Awalt Date: 4/12/12

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.

SDG #SL1263

CH2MHill Plateau Remediation Company SL1263 (WL 481)

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W12-003-098

Page 1 of 1

Collector	A McIntyre	**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 44/50	**Ice Chest No.**	GWS-210
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7886 2631 9585
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	RWA 3672 4/10/12

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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2K4N6	N	W	4-9-12	0940	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2K4N6	N	W	4-9-12	0940	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
A McIntyre			4-9-12 1430	SSU #1			4-9-12 1430
SSU #1			APR 10 2012 0700	KC Patterson CHPRC			APR 10 2012 0700
KC Patterson CHPRC			APR 10 2012 0700	FEDEX SWilson			
Fed Ex							4.11.12 0920

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)

AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

Print page | Close

FedEx

Detailed Results

Tracking no.: 798266319585 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 10, 2012	EARTH CITY, MO
Delivery date Apr 11, 2012 9:15 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	47.0 lbs/21.3 kg	Reference	3EK00/ 300072/ ES10 PTR3672

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
Apr 11, 2012 9:15 AM	**Delivered**	EARTH CITY, MO	
Apr 11, 2012 6:35 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 11, 2012 6:28 AM	At local FedEx facility	EARTH CITY, MO	
Apr 11, 2012 5:01 AM	At destination sort facility	BERKELEY, MO	
Apr 11, 2012 4:20 AM	Departed FedEx location	MEMPHIS, TN	
Apr 11, 2012 12:27 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 10, 2012 5:03 PM	Left FedEx origin facility	PASCO, WA	
Apr 10, 2012 3:07 PM	Picked up	PASCO, WA	
Apr 10, 2012 11:21 AM	Shipment information sent to FedEx		

REVISION 1
AUGUST 2, 2012
TestAmerica - St. Louis

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 4 8 1

Lot #(s): F20110423

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: W12-003-098

Initiated By: SW Date: 4.11.12 Time: 0920

Shipping Information

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

Shipping # (s):*				Sample Temperature (s):**			
1.	7982 6631 9585	6.		1.	2	6.	
2.		7.		2.		7.	
3.		8.		3.		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 Arnold Date: 4/17/12

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.

GC/MS VOLATILES

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KD26

GC/MS Volatiles

Lot-Sample #...: F2D050422-001 **Work Order #...:** MRTEN1AC **Matrix.....:** WATER
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/06/12
Prep Batch #...: 2097097
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	**3.6**	**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	ND	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	121 *	(85 - 120)
Dibromofluoromethane	93	(85 - 118)
1,2-Dichloroethane-d4	89	(80 - 119)
4-Bromofluorobenzene	114	(84 - 115)

NOTE(S):

* Surrogate recovery is outside stated control limits.

CH2M Hill Plateau Remediation DOE RL

B2KD26

GC/MS Volatiles

Lot-Sample #: F2D050422-001 **Work Order #:** MRTEN1AC **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: B2KFJ3

GC/MS Volatiles

Lot-Sample #...: F2D050425-001 **Work Order #...:** MRTE21AF **Matrix.....:** WATER
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/06/12
Prep Batch #...: 2097098
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
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	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
2-Chloro-1,3-butadiene	ND	1.0	ug/L	0.097
Vinyl chloride	ND	2.0	ug/L	0.084

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFJ3

GC/MS Volatiles

Lot-Sample #...: F2D050425-001 **Work Order #...:** MRTE21AF **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.3**	**2.0**	**ug/L**	**0.34**
Methylene chloride	ND	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	**2.0**	**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	105	(85 - 120)
Dibromofluoromethane	96	(85 - 118)
1,2-Dichloroethane-d4	99	(80 - 119)
4-Bromofluorobenzene	107	(84 - 115)

CH2M Hill Plateau Remediation DOE RL

B2KFJ3

GC/MS Volatiles

Lot-Sample #: F2D050425-001 **Work Order #:** MRTE21AF **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: B2KFF9

GC/MS Volatiles

Lot-Sample #...: F2D050425-002 **Work Order #...:** MRTFA1AF **Matrix.....:** WATER
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/06/12
Prep Batch #...: 2097098
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
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	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
2-Chloro-1,3-butadiene	ND	1.0	ug/L	0.097
Vinyl chloride	ND	2.0	ug/L	0.084

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFF9

GC/MS Volatiles

Lot-Sample #...: F2D050425-002 **Work Order #...:** MRTFA1AF **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	ND	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	**1.1**	**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	107	(85 - 120)
Dibromofluoromethane	100	(85 - 118)
1,2-Dichloroethane-d4	103	(80 - 119)
4-Bromofluorobenzene	109	(84 - 115)

CH2M Hill Plateau Remediation DOE RL

B2KFF9

GC/MS Volatiles

Lot-Sample #: F2D050425-002 **Work Order #:** MRTFA1AF **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: B2KFD5

GC/MS Volatiles

Lot-Sample #...: F2D050425-003 **Work Order #...:** MRTFE1AF **Matrix.....:** WATER
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/06/12
Prep Batch #...: 2097098
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
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	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
2-Chloro-1,3-butadiene	ND	1.0	ug/L	0.097
Vinyl chloride	ND	2.0	ug/L	0.084

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFD5

GC/MS Volatiles

Lot-Sample #...: F2D050425-003 **Work Order #...:** MRTFE1AF **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.41 J**	**2.0**	**ug/L**	**0.34**
Methylene chloride	ND	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	**1.4**	**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	110	(85 - 120)
Dibromofluoromethane	99	(85 - 118)
1,2-Dichloroethane-d4	97	(80 - 119)
4-Bromofluorobenzene	112	(84 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

B2KFD5

GC/MS Volatiles

Lot-Sample #: F2D050425-003 **Work Order #:** MRTFE1AF **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: B2K4P3

GC/MS Volatiles

Lot-Sample #...: F2D060434-003 **Work Order #...:** MRVAV1AD **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/10/12
Prep Batch #...: 2101032
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
Acrylonitrile	ND	10	ug/L	0.58
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
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	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
2-Chloro-1,3-butadiene	ND	1.0	ug/L	0.097

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K4P3

GC/MS Volatiles

Lot-Sample #...: F2D060434-003 **Work Order #...:** MRVAV1AD **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.0	ug/L	0.084
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	ND	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	**0.81 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	**4.2**	**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	108	(85 - 120)
Dibromofluoromethane	100	(85 - 118)
1,2-Dichloroethane-d4	98	(80 - 119)
4-Bromofluorobenzene	106	(84 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

B2K4P3

GC/MS Volatiles

Lot-Sample #: F2D060434-003 **Work Order #:** MRVAV1AD **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: B2L243

GC/MS Volatiles

Lot-Sample #...: F2D060436-001 **Work Order #...:** MRVDC1AC **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/10/12
Prep Batch #...: 2101032
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	**8.5**	**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	ND	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	**0.10 J**	**1.0**	**ug/L**	**0.072**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	101	(85 - 120)
Dibromofluoromethane	98	(85 - 118)
1,2-Dichloroethane-d4	103	(80 - 119)
4-Bromofluorobenzene	104	(84 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

B2L243

GC/MS Volatiles

Lot-Sample #: F2D060436-001 **Work Order #:** MRVDC1AC **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: B2K5K9

GC/MS Volatiles

Lot-Sample #...: F2D060437-002 **Work Order #...:** MRVDH1AC **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/10/12
Prep Batch #...: 2101032
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
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	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
2-Chloro-1,3-butadiene	ND	1.0	ug/L	0.097
Vinyl chloride	ND	2.0	ug/L	0.084

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K5K9

GC/MS Volatiles

Lot-Sample #...: F2D060437-002 **Work Order #...:** MRVDH1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	**0.40 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	ND	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	101	(85 - 120)
Dibromofluoromethane	105	(85 - 118)
1,2-Dichloroethane-d4	107	(80 - 119)
4-Bromofluorobenzene	101	(84 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

B2K5K9

GC/MS Volatiles

Lot-Sample #: F2D060437-002 **Work Order #:** MRVDH1AC **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: B2K5L0

GC/MS Volatiles

Lot-Sample #...: F2D060437-003 **Work Order #...:** MRVDJ1AC **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/10/12
Prep Batch #...: 2101032
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.073
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
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
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	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	**0.48 J**	**1.0**	**ug/L**	**0.083**
1,2-Dichloroethene (total)	ND	2.0	ug/L	0.15
1,2-Dichloropropane	**0.14 J**	**1.0**	**ug/L**	**0.097**
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
2-Chloro-1,3-butadiene	ND	1.0	ug/L	0.097
Vinyl chloride	ND	2.0	ug/L	0.084

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K5L0

GC/MS Volatiles

Lot-Sample #...: F2D060437-003 **Work Order #...:** MRVDJ1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	ND	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	**1.2**	**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	**29**	**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	**1.2**	**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	100	(85 - 120)
Dibromofluoromethane	104	(85 - 118)
1,2-Dichloroethane-d4	102	(80 - 119)
4-Bromofluorobenzene	103	(84 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

B2K5L0

GC/MS Volatiles

Lot-Sample #: F2D060437-003 **Work Order #:** MRVDJ1AC **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: B2K468

GC/MS Volatiles

Lot-Sample #...: F2D100430-001 **Work Order #...:** MRWR41AC **Matrix.....:** WATER
Date Sampled...: 04/05/12 **Date Received..:** 04/10/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/10/12
Prep Batch #...: 2101032
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
Acrylonitrile	ND	10	ug/L	0.58
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
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	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
2-Chloro-1,3-butadiene	ND	1.0	ug/L	0.097

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K468

GC/MS Volatiles

Lot-Sample #...: F2D100430-001 **Work Order #...:** MRWR41AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.0	ug/L	0.084
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	ND	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	ND	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	101	(85 - 120)
Dibromofluoromethane	100	(85 - 118)
1,2-Dichloroethane-d4	103	(80 - 119)
4-Bromofluorobenzene	103	(84 - 115)

CH2M Hill Plateau Remediation DOE RL

B2K468

GC/MS Volatiles

Lot-Sample #: F2D100430-001 **Work Order #:** MRWR41AC **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: B2L244

GC/MS Volatiles

Lot-Sample #...: F2D100431-004 **Work Order #...:** MRWTD1AC **Matrix.....:** WATER
Date Sampled...: 04/05/12 **Date Received..:** 04/10/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/10/12
Prep Batch #...: 2101032
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	**3.5**	**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	ND	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	102	(85 - 120)
Dibromofluoromethane	103	(85 - 118)
1,2-Dichloroethane-d4	106	(80 - 119)
4-Bromofluorobenzene	101	(84 - 115)

CH2M Hill Plateau Remediation DOE RL

B2L244

GC/MS Volatiles

Lot-Sample #: F2D100431-004 **Work Order #:** MRWTD1AC **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 #...: SL1263 **Work Order #...:** MRVDK1AA **Matrix.....:** WATER
MB Lot-Sample #: F2D060000-097

Prep Date.....: 04/06/12
Analysis Date..: 04/06/12 **Prep Batch #...:** 2097097
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	80	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	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
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	111	(85 - 120)
Dibromofluoromethane	97	(85 - 118)
1,2-Dichloroethane-d4	95	(80 - 119)
4-Bromofluorobenzene	112	(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 #: F2D060000-097 B **Work Order #:** MRVDK1AA **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 #...: SL1263 **Work Order #...:** MRVDL1AA **Matrix.....:** WATER
MB Lot-Sample #: F2D060000-098

Prep Date.....: 04/06/12
Analysis Date..: 04/06/12 **Prep Batch #...:** 2097098
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
2-Chloro-1,3-butadiene	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 #...: SL1263 **Work Order #...:** MRVDL1AA **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	111	(85 - 120)
Dibromofluoromethane	97	(85 - 118)
1,2-Dichloroethane-d4	95	(80 - 119)
4-Bromofluorobenzene	112	(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 #: F2D060000-098 B **Work Order #:** MRVDL1AA **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 #...: SL1263 **Work Order #...:** MRWJ31AA **Matrix.....:** WATER
MB Lot-Sample #: F2D100000-032

Prep Date.....: 04/10/12
Analysis Date..: 04/10/12 **Prep Batch #...:** 2101032
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetonitrile	ND	5.0	ug/L	SW846 8260B
Acrolein	ND	10	ug/L	SW846 8260B
Acrylonitrile	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
2-Chloro-1,3-butadiene	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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRWJ31AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methylene chloride	ND	1.0	ug/L	SW846 8260B
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	103	(85 - 120)
Dibromofluoromethane	100	(85 - 118)
1,2-Dichloroethane-d4	104	(80 - 119)
4-Bromofluorobenzene	99	(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 #: F2D100000-032 B **Work Order #:** MRWJ31AA **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 #...: SL1263 **Work Order #...:** MRVDK1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D060000-097
Prep Date.....: 04/06/12 **Analysis Date..:** 04/06/12
Prep Batch #...: 2097097
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	10.0	9.62	ug/L	96	SW846 8260B
Ethylbenzene	10.0	10.9	ug/L	109	SW846 8260B
1,4-Dioxane	200	186	ug/L	93	SW846 8260B
Vinyl chloride	10.0	11.0	ug/L	110	SW846 8260B
Acetone	10.0	7.88	ug/L	79	SW846 8260B
Methylene chloride	10.0	9.13	ug/L	91	SW846 8260B
Carbon disulfide	10.0	8.91	ug/L	89	SW846 8260B
1,1-Dichloroethane	10.0	9.28	ug/L	93	SW846 8260B
2-Butanone	10.0	8.65	ug/L	87	SW846 8260B
Chloroform	10.0	9.06	ug/L	91	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.83	ug/L	98	SW846 8260B
Propionitrile	50.0	45.0	ug/L	90	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.43	ug/L	94	SW846 8260B
1,1,1-Trichloroethane	10.0	9.49	ug/L	95	SW846 8260B
Carbon tetrachloride	10.0	9.30	ug/L	93	SW846 8260B
1,2-Dichloroethane	10.0	9.04	ug/L	90	SW846 8260B
Benzene	10.0	9.50	ug/L	95	SW846 8260B
Trichloroethene	10.0	9.66	ug/L	97	SW846 8260B
4-Methyl-2-pentanone	10.0	8.41	ug/L	84	SW846 8260B
1,1,2-Trichloroethane	10.0	9.18	ug/L	92	SW846 8260B
Tetrachloroethene	10.0	10.5	ug/L	105	SW846 8260B
Tetrahydrofuran	50.0	46.6	ug/L	93	SW846 8260B
1,4-Dichlorobenzene	10.0	9.96	ug/L	100	SW846 8260B
1-Butanol	100	84.6	ug/L	85	SW846 8260B
Toluene	10.0	10.6	ug/L	106	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	109	(88 - 120)
Dibromofluoromethane	91	(87 - 115)
1,2-Dichloroethane-d4	87	(81 - 117)
4-Bromofluorobenzene	104	(84 - 117)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRVDK1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D060000-097

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 Volatiles

Client Lot #...: SL1263 Work Order #...: MRVDL1AC Matrix.....: WATER
LCS Lot-Sample#: F2D060000-098
Prep Date.....: 04/06/12 Analysis Date..: 04/06/12
Prep Batch #...: 2097098
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Dibromomethane	10.0	8.69	ug/L	87	SW846 8260B
cis-1,3-Dichloropropene	10.0	10.3	ug/L	103	SW846 8260B
Dibromochloromethane	10.0	9.67	ug/L	97	SW846 8260B
Chloromethane	10.0	9.93	ug/L	99	SW846 8260B
Bromomethane	10.0	10.4	ug/L	104	SW846 8260B
Chloroethane	10.0	9.09	ug/L	91	SW846 8260B
1,1-Dichloroethene	10.0	9.62	ug/L	96	SW846 8260B
1,2-Dichloroethene (total)	20.0	19.3	ug/L	96	SW846 8260B
1,2-Dichloropropane	10.0	9.60	ug/L	96	SW846 8260B
Bromodichloromethane	10.0	9.08	ug/L	91	SW846 8260B
trans-1,3-Dichloropropene	10.0	9.99	ug/L	100	SW846 8260B
2-Hexanone	10.0	8.56	ug/L	86	SW846 8260B
Chlorobenzene	10.0	10.1	ug/L	101	SW846 8260B
Bromoform	10.0	8.89	ug/L	89	SW846 8260B
Ethylbenzene	10.0	10.9	ug/L	109	SW846 8260B
Styrene	10.0	10.9	ug/L	109	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	8.63	ug/L	86	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	10.0	10.0	ug/L	100	SW846 8260B
1,2-Dibromoethane	10.0	9.63	ug/L	96	SW846 8260B
trans-1,4-Dichloro-2-butene	10.0	8.34	ug/L	83	SW846 8260B
Dichlorodifluoromethane (Freon 12)	10.0	11.6	ug/L	116	SW846 8260B
Ethyl methacrylate	10.0	9.58	ug/L	96	SW846 8260B
Methyl methacrylate	10.0	9.15	ug/L	92	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	9.71	ug/L	97	SW846 8260B
Trichlorofluoromethane	10.0	9.32	ug/L	93	SW846 8260B
Acetonitrile	50.0	40.8	ug/L	82	SW846 8260B
Iodomethane	10.0	10.4	ug/L	104	SW846 8260B
Vinyl acetate	10.0	9.22	ug/L	92	SW846 8260B
Acrolein	50.0	39.5	ug/L	79	SW846 8260B
Isobutanol	200	161	ug/L	81	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRVDL1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D060000-098

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methacrylonitrile	50.0	50.8	ug/L	102	SW846 8260B
1,4-Dioxane	200	186	ug/L	93	SW846 8260B
2-Chloro-1,3-butadiene	10.0	10.0	ug/L	100	SW846 8260B
1,2,3-Trichloropropane	10.0	9.66	ug/L	97	SW846 8260B
Vinyl chloride	10.0	11.0	ug/L	110	SW846 8260B
Acetone	10.0	7.88	ug/L	79	SW846 8260B
Methylene chloride	10.0	9.13	ug/L	91	SW846 8260B
Carbon disulfide	10.0	8.91	ug/L	89	SW846 8260B
1,1-Dichloroethane	10.0	9.28	ug/L	93	SW846 8260B
2-Butanone	10.0	8.65	ug/L	87	SW846 8260B
Chloroform	10.0	9.06	ug/L	91	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.83	ug/L	98	SW846 8260B
Propionitrile	50.0	45.0	ug/L	90	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.43	ug/L	94	SW846 8260B
1,1,1-Trichloroethane	10.0	9.49	ug/L	95	SW846 8260B
Carbon tetrachloride	10.0	9.30	ug/L	93	SW846 8260B
1,2-Dichloroethane	10.0	9.04	ug/L	90	SW846 8260B
Benzene	10.0	9.50	ug/L	95	SW846 8260B
Trichloroethene	10.0	9.66	ug/L	97	SW846 8260B
4-Methyl-2-pentanone	10.0	8.41	ug/L	84	SW846 8260B
1,1,2-Trichloroethane	10.0	9.18	ug/L	92	SW846 8260B
Tetrachloroethene	10.0	10.5	ug/L	105	SW846 8260B
Tetrahydrofuran	50.0	46.6	ug/L	93	SW846 8260B
1,4-Dichlorobenzene	10.0	9.96	ug/L	100	SW846 8260B
1-Butanol	100	84.6	ug/L	85	SW846 8260B
Toluene	10.0	10.6	ug/L	106	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	109	(88 - 120)
Dibromofluoromethane	91	(87 - 115)
1,2-Dichloroethane-d4	87	(81 - 117)
4-Bromofluorobenzene	104	(84 - 117)

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 Volatiles

Client Lot #...: SL1263 Work Order #...: MRWJ31AC Matrix.....: WATER
LCS Lot-Sample#: F2D100000-032
Prep Date.....: 04/10/12 Analysis Date..: 04/10/12
Prep Batch #...: 2101032
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
cis-1,3-Dichloropropene	10.0	10.4	ug/L	104	SW846 8260B
Dibromochloromethane	10.0	11.1	ug/L	111	SW846 8260B
Chloromethane	10.0	10.5	ug/L	105	SW846 8260B
Bromomethane	10.0	10.1	ug/L	101	SW846 8260B
Chloroethane	10.0	9.76	ug/L	98	SW846 8260B
1,1-Dichloroethene	10.0	10.6	ug/L	106	SW846 8260B
1,2-Dichloroethene (total)	20.0	20.5	ug/L	103	SW846 8260B
1,2-Dichloropropane	10.0	9.63	ug/L	96	SW846 8260B
Bromodichloromethane	10.0	9.91	ug/L	99	SW846 8260B
trans-1,3-Dichloropropene	10.0	9.88	ug/L	99	SW846 8260B
2-Hexanone	10.0	9.03	ug/L	90	SW846 8260B
Chlorobenzene	10.0	9.30	ug/L	93	SW846 8260B
Bromoform	10.0	8.87	ug/L	89	SW846 8260B
Ethylbenzene	10.0	10.2	ug/L	102	SW846 8260B
Styrene	10.0	11.3	ug/L	113	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	9.47	ug/L	95	SW846 8260B
Allyl chloride	10.0	9.91	ug/L	99	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	10.0	9.16	ug/L	92	SW846 8260B
1,2-Dibromoethane	10.0	9.74	ug/L	97	SW846 8260B
trans-1,4-Dichloro-2-butene	10.0	10.4	ug/L	104	SW846 8260B
Dichlorodifluoromethane (Freon 12)	10.0	8.00	ug/L	80	SW846 8260B
Ethyl methacrylate	10.0	7.90	ug/L	79	SW846 8260B
Methyl methacrylate	10.0	7.16	ug/L	72	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	10.7	ug/L	107	SW846 8260B
Trichlorofluoromethane	10.0	9.89	ug/L	99	SW846 8260B
Acetonitrile	50.0	53.2	ug/L	106	SW846 8260B
Iodomethane	10.0	10.3	ug/L	103	SW846 8260B
Vinyl acetate	10.0	8.28	ug/L	83	SW846 8260B
Acrolein	50.0	47.5	ug/L	95	SW846 8260B
Acrylonitrile	50.0	59.3	ug/L	119	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRWJ31AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D100000-032

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Isobutanol	200	159	ug/L	79	SW846 8260B
Methacrylonitrile	50.0	46.6	ug/L	93	SW846 8260B
1,4-Dioxane	200	171	ug/L	86	SW846 8260B
2-Chloro-1,3-butadiene	10.0	8.82	ug/L	88	SW846 8260B
Dibromomethane	10.0	10.1	ug/L	101	SW846 8260B
1,2,3-Trichloropropane	10.0	9.11	ug/L	91	SW846 8260B
Vinyl chloride	10.0	9.21	ug/L	92	SW846 8260B
Acetone	10.0	9.22	ug/L	92	SW846 8260B
Methylene chloride	10.0	10.5	ug/L	105	SW846 8260B
Carbon disulfide	10.0	11.2	ug/L	112	SW846 8260B
1,1-Dichloroethane	10.0	10.1	ug/L	101	SW846 8260B
2-Butanone	10.0	10.3	ug/L	103	SW846 8260B
Chloroform	10.0	10.1	ug/L	101	SW846 8260B
cis-1,2-Dichloroethene	10.0	10.2	ug/L	102	SW846 8260B
Propionitrile	50.0	47.9	ug/L	96	SW846 8260B
trans-1,2-Dichloroethene	10.0	10.3	ug/L	103	SW846 8260B
1,1,1-Trichloroethane	10.0	10.4	ug/L	104	SW846 8260B
Carbon tetrachloride	10.0	10.7	ug/L	107	SW846 8260B
1,2-Dichloroethane	10.0	9.61	ug/L	96	SW846 8260B
Benzene	10.0	10.0	ug/L	100	SW846 8260B
Trichloroethene	10.0	9.63	ug/L	96	SW846 8260B
4-Methyl-2-pentanone	10.0	10.7	ug/L	107	SW846 8260B
1,1,2-Trichloroethane	10.0	10.2	ug/L	102	SW846 8260B
Tetrachloroethene	10.0	9.87	ug/L	99	SW846 8260B
Tetrahydrofuran	50.0	45.6	ug/L	91	SW846 8260B
1,4-Dichlorobenzene	10.0	9.87	ug/L	99	SW846 8260B
1-Butanol	100	81.7	ug/L	82	SW846 8260B
Toluene	10.0	10.4	ug/L	104	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	102	(88 - 120)
Dibromofluoromethane	105	(87 - 115)
1,2-Dichloroethane-d4	102	(81 - 117)
4-Bromofluorobenzene	93	(84 - 117)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRWJ31AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D100000-032

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 #...: SL1263 **Work Order #...:** MRTEN1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D050422-001 MRTEN1AE-MSD
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/06/12
Prep Batch #...: 2097097
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10.0	9.67	ug/L	97		SW846 8260B
	ND	10.0	9.44	ug/L	94	2.4	SW846 8260B
Ethylbenzene	ND	10.0	11.2	ug/L	112		SW846 8260B
	ND	10.0	11.1	ug/L	111	1.3	SW846 8260B
1,4-Dioxane	ND	200	174	ug/L	87		SW846 8260B
	ND	200	194	ug/L	97	11	SW846 8260B
Vinyl chloride	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	11.1	ug/L	111	6.2	SW846 8260B
Acetone	ND	10.0	6.71	ug/L	67		SW846 8260B
	ND	10.0	7.62	ug/L	76	13	SW846 8260B
Methylene chloride	3.6	10.0	13.0	ug/L	95		SW846 8260B
	3.6	10.0	13.1	ug/L	96	0.45	SW846 8260B
Carbon disulfide	ND	10.0	8.99	ug/L	90		SW846 8260B
	ND	10.0	8.93	ug/L	89	0.75	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.72	ug/L	97		SW846 8260B
	ND	10.0	9.51	ug/L	95	2.2	SW846 8260B
2-Butanone	ND	10.0	8.18	ug/L	82		SW846 8260B
	ND	10.0	10.6	ug/L	106	25	SW846 8260B
Chloroform	ND	10.0	9.39	ug/L	94		SW846 8260B
	ND	10.0	9.47	ug/L	95	0.80	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.3	ug/L	103	0.97	SW846 8260B
Propionitrile	ND	50.0	46.0	ug/L	92		SW846 8260B
	ND	50.0	53.9	ug/L	108	16	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	9.68	ug/L	97		SW846 8260B
	ND	10.0	9.42	ug/L	94	2.6	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	9.81	ug/L	98		SW846 8260B
	ND	10.0	9.49	ug/L	95	3.4	SW846 8260B
Carbon tetrachloride	ND	10.0	9.90	ug/L	99		SW846 8260B
	ND	10.0	9.64	ug/L	96	2.6	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.25	ug/L	92		SW846 8260B
	ND	10.0	9.81	ug/L	98	5.9	SW846 8260B
Benzene	ND	10.0	9.97	ug/L	100		SW846 8260B
	ND	10.0	9.93	ug/L	99	0.34	SW846 8260B
Trichloroethene	ND	10.0	9.59	ug/L	96		SW846 8260B
	ND	10.0	9.73	ug/L	97	1.4	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	8.32	ug/L	83		SW846 8260B
	ND	10.0	9.88	ug/L	99	17	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	8.95	ug/L	90		SW846 8260B
	ND	10.0	9.40	ug/L	94	4.8	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRTEN1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D050422-001 MRTEN1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Tetrachloroethene	**ND**	**10.0**	**10.5**	**ug/L**	**105**		**SW846 8260B**
	ND	**10.0**	**10.1**	**ug/L**	**101**	**4.3**	**SW846 8260B**
Tetrahydrofuran	**ND**	**50.0**	**45.9**	**ug/L**	**92**		**SW846 8260B**
	ND	**50.0**	**50.6**	**ug/L**	**101**	**9.7**	**SW846 8260B**
1,4-Dichlorobenzene	**ND**	**10.0**	**9.82**	**ug/L**	**98**		**SW846 8260B**
	ND	**10.0**	**9.96**	**ug/L**	**100**	**1.4**	**SW846 8260B**
1-Butanol	**ND**	**100**	**70.5**	**ug/L**	**70**		**SW846 8260B**
	ND	**100**	**89.2**	**ug/L**	89	23	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.8**	**ug/L**	**108**		**SW846 8260B**
	ND	**10.0**	**10.7**	**ug/L**	**107**	**1.0**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	107	(85 - 120)
	105	(85 - 120)
Dibromofluoromethane	92	(85 - 118)
	94	(85 - 118)
1,2-Dichloroethane-d4	86	(80 - 119)
	94	(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

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRTFA1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D050425-002 MRTFA1AK-MSD
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/06/12
Prep Batch #...: 2097098
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
cis-1,3-Dichloropropene	ND	10.0	10.7	ug/L	107		SW846 8260B
	ND	10.0	10.6	ug/L	106	1.1	SW846 8260B
Chloromethane	ND	10.0	9.93	ug/L	99		SW846 8260B
	ND	10.0	10.5	ug/L	105	5.8	SW846 8260B
Bromomethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.9	ug/L	109	6.6	SW846 8260B
Chloroethane	ND	10.0	8.85	ug/L	88		SW846 8260B
	ND	10.0	9.06	ug/L	91	2.3	SW846 8260B
1,1-Dichloroethene	ND	10.0	9.46	ug/L	95		SW846 8260B
	ND	10.0	9.46	ug/L	95	0.06	SW846 8260B
1,2-Dichloroethene (total)	ND	20.0	19.7	ug/L	99		SW846 8260B
	ND	20.0	19.7	ug/L	99	0.05	SW846 8260B
1,2-Dichloropropane	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.4	ug/L	104	0.19	SW846 8260B
Bromodichloromethane	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.65	ug/L	96	3.7	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.3	ug/L	103	2.3	SW846 8260B
2-Hexanone	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	9.97	ug/L	100	2.0	SW846 8260B
Chlorobenzene	ND	10.0	9.95	ug/L	100		SW846 8260B
	ND	10.0	9.81	ug/L	98	1.4	SW846 8260B
Bromoform	ND	10.0	9.42	ug/L	94		SW846 8260B
	ND	10.0	9.82	ug/L	98	4.2	SW846 8260B
Ethylbenzene	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.6	ug/L	106	0.09	SW846 8260B
Styrene	ND	10.0	10.8	ug/L	108		SW846 8260B
	ND	10.0	10.8	ug/L	108	0.46	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	9.58	ug/L	96		SW846 8260B
	ND	10.0	9.67	ug/L	97	0.94	SW846 8260B
Dibromochloromethane	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	9.90	ug/L	99	1.6	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	11.0	ug/L	110	6.6	SW846 8260B
1,2-Dibromoethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.1	ug/L	101	0.98	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRTFA1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D050425-002 MRTFA1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
trans-1,4-Dichloro-2-butene	ND	10.0	9.32	ug/L	93		SW846 8260B
	ND	10.0	10.3	ug/L	103	10	SW846 8260B
Dichlorodifluoromethane (Freon 12)	ND	10.0	11.8	ug/L	118		SW846 8260B
	ND	10.0	12.2	ug/L	122	3.8	SW846 8260B
Ethyl methacrylate	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.1	ug/L	101	2.8	SW846 8260B
Methyl methacrylate	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.0	ug/L	100	4.2	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	9.74	ug/L	97		SW846 8260B
	ND	10.0	9.78	ug/L	98	0.43	SW846 8260B
Trichlorofluoromethane	ND	10.0	9.42	ug/L	94		SW846 8260B
	ND	10.0	9.30	ug/L	93	1.3	SW846 8260B
Acetonitrile	ND	50.0	48.9	ug/L	98		SW846 8260B
	ND	50.0	45.7	ug/L	91	6.8	SW846 8260B
Iodomethane	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.4	ug/L	104	1.0	SW846 8260B
Vinyl acetate	ND	10.0	10.8	ug/L	108		SW846 8260B
	ND	10.0	10.8	ug/L	108	0.18	SW846 8260B
Acrolein	ND	50.0	60.7	ug/L	121		SW846 8260B
	ND	50.0	57.8	ug/L	116	5.0	SW846 8260B
Isobutanol	ND	200	201	ug/L	100		SW846 8260B
	ND	200	210	ug/L	105	4.3	SW846 8260B
Methacrylonitrile	ND	50.0	60.1	ug/L	120		SW846 8260B
	ND	50.0	57.5	ug/L	115	4.4	SW846 8260B
1,4-Dioxane	ND	200	189	ug/L	95		SW846 8260B
	ND	200	218	ug/L	109	14	SW846 8260B
2-Chloro-1,3-butadiene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.3	ug/L	103	1.5	SW846 8260B
Dibromomethane	ND	10.0	9.74	ug/L	97		SW846 8260B
	ND	10.0	9.59	ug/L	96	1.5	SW846 8260B
1,2,3-Trichloropropane	ND	10.0	9.92	ug/L	99		SW846 8260B
	ND	10.0	10.2	ug/L	102	2.8	SW846 8260B
Vinyl chloride	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	11.3	ug/L	113	6.5	SW846 8260B
Acetone	ND	10.0	7.37	ug/L	74		SW846 8260B
	ND	10.0	8.25	ug/L	83	11	SW846 8260B
Methylene chloride	ND	10.0	9.37	ug/L	94		SW846 8260B
	ND	10.0	9.52	ug/L	95	1.6	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRTFA1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D050425-002 MRTFA1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Carbon disulfide	ND	10.0	8.91	ug/L	89		SW846 8260B
	ND	10.0	8.76	ug/L	88	1.7	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.75	ug/L	97		SW846 8260B
	ND	10.0	9.39	ug/L	94	3.8	SW846 8260B
2-Butanone	ND	10.0	9.14	ug/L	91		SW846 8260B
	ND	10.0	9.71	ug/L	97	6.0	SW846 8260B
Chloroform	1.1	10.0	10.8	ug/L	97		SW846 8260B
	1.1	10.0	10.4	ug/L	93	3.3	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.2	ug/L	102	0.48	SW846 8260B
Propionitrile	ND	50.0	52.8	ug/L	106		SW846 8260B
	ND	50.0	53.0	ug/L	106	0.34	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	9.49	ug/L	95		SW846 8260B
	ND	10.0	9.53	ug/L	95	0.47	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	9.73	ug/L	97		SW846 8260B
	ND	10.0	9.45	ug/L	94	2.9	SW846 8260B
Carbon tetrachloride	ND	10.0	9.65	ug/L	96		SW846 8260B
	ND	10.0	9.46	ug/L	95	2.0	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.0	ug/L	100	0.49	SW846 8260B
Benzene	ND	10.0	9.90	ug/L	99		SW846 8260B
	ND	10.0	9.73	ug/L	97	1.7	SW846 8260B
Trichloroethene	ND	10.0	9.77	ug/L	98		SW846 8260B
	ND	10.0	9.57	ug/L	96	2.1	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.2	ug/L	102	0.68	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.76	ug/L	98		SW846 8260B
	ND	10.0	9.71	ug/L	97	0.51	SW846 8260B
Tetrachloroethene	ND	10.0	9.86	ug/L	99		SW846 8260B
	ND	10.0	9.73	ug/L	97	1.3	SW846 8260B
Tetrahydrofuran	ND	50.0	53.0	ug/L	106		SW846 8260B
	ND	50.0	50.0	ug/L	100	5.8	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	9.81	ug/L	98		SW846 8260B
	ND	10.0	9.91	ug/L	99	1.1	SW846 8260B
1-Butanol	ND	100	96.4	ug/L	96		SW846 8260B
	ND	100	102	ug/L	102	5.3	SW846 8260B
Toluene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.3	ug/L	103	0.38	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	103	(85 - 120)
	102	(85 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRTFA1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D050425-002 MRTFA1AK-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(85 - 118)
	93	(85 - 118)
1,2-Dichloroethane-d4	97	(80 - 119)
	92	(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

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRVAV1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060434-003 MRVAV1AH-MSD
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/10/12
Prep Batch #...: 2101032
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
cis-1,3-Dichloropropene	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	11.1	ug/L	111	4.4	SW846 8260B
Chloromethane	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	9.74	ug/L	97	3.3	SW846 8260B
Bromomethane	ND	10.0	9.77	ug/L	98		SW846 8260B
	ND	10.0	9.49	ug/L	95	2.9	SW846 8260B
Chloroethane	ND	10.0	9.94	ug/L	99		SW846 8260B
	ND	10.0	9.53	ug/L	95	4.3	SW846 8260B
1,1-Dichloroethene	ND	10.0	9.61	ug/L	96		SW846 8260B
	ND	10.0	10.1	ug/L	101	4.8	SW846 8260B
1,2-Dichloroethene (total)	ND	20.0	19.8	ug/L	99		SW846 8260B
	ND	20.0	20.4	ug/L	102	3.3	SW846 8260B
1,2-Dichloropropane	ND	10.0	9.72	ug/L	97		SW846 8260B
	ND	10.0	9.86	ug/L	99	1.4	SW846 8260B
Bromodichloromethane	ND	10.0	9.76	ug/L	98		SW846 8260B
	ND	10.0	10.0	ug/L	100	2.7	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	9.92	ug/L	99		SW846 8260B
	ND	10.0	10.4	ug/L	104	5.0	SW846 8260B
2-Hexanone	ND	10.0	8.82	ug/L	88		SW846 8260B
	ND	10.0	9.54	ug/L	95	7.8	SW846 8260B
Chlorobenzene	ND	10.0	9.27	ug/L	93		SW846 8260B
	ND	10.0	9.28	ug/L	93	0.07	SW846 8260B
Bromoform	ND	10.0	8.51	ug/L	85		SW846 8260B
	ND	10.0	8.94	ug/L	89	4.9	SW846 8260B
Ethylbenzene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.3	ug/L	103	1.4	SW846 8260B
Styrene	ND	10.0	11.4	ug/L	114		SW846 8260B
	ND	10.0	11.2	ug/L	112	1.3	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	8.98	ug/L	90		SW846 8260B
	ND	10.0	9.62	ug/L	96	6.9	SW846 8260B
Dibromochloromethane	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.8	ug/L	108	3.5	SW846 8260B
Allyl chloride	ND	10.0	9.91	ug/L	99		SW846 8260B
	ND	10.0	9.75	ug/L	97	1.6	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.4	ug/L	104	2.9	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRVAV1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060434-003 MRVAV1AH-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2-Dibromoethane	ND	10.0	9.52	ug/L	95		SW846 8260B
	ND	10.0	9.91	ug/L	99	4.0	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.2	ug/L	102	0.29	SW846 8260B
Dichlorodifluoromethane (Freon 12)	ND	10.0	7.43	ug/L	74		SW846 8260B
	ND	10.0	7.30	ug/L	73	1.8	SW846 8260B
Ethyl methacrylate	ND	10.0	7.63	ug/L	76		SW846 8260B
	ND	10.0	8.17	ug/L	82	6.8	SW846 8260B
Methyl methacrylate	ND	10.0	7.42	ug/L	74		SW846 8260B
	ND	10.0	7.83	ug/L	78	5.4	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.6	ug/L	106	0.76	SW846 8260B
Trichlorofluoromethane	ND	10.0	9.54	ug/L	95		SW846 8260B
	ND	10.0	9.69	ug/L	97	1.6	SW846 8260B
Acetonitrile	ND	50.0	52.2	ug/L	104		SW846 8260B
	ND	50.0	52.6	ug/L	105	0.76	SW846 8260B
Iodomethane	ND	10.0	9.71	ug/L	97		SW846 8260B
	ND	10.0	9.94	ug/L	99	2.4	SW846 8260B
Vinyl acetate	ND	10.0	8.32	ug/L	83		SW846 8260B
	ND	10.0	9.20	ug/L	92	10	SW846 8260B
Acrolein	ND	50.0	47.4	ug/L	95		SW846 8260B
	ND	50.0	50.9	ug/L	102	7.0	SW846 8260B
Acrylonitrile	ND	50.0	52.8	ug/L	106		SW846 8260B
	ND	50.0	56.9	ug/L	114	7.6	SW846 8260B
Isobutanol	ND	200	177	ug/L	89		SW846 8260B
	ND	200	180	ug/L	90	1.8	SW846 8260B
Methacrylonitrile	ND	50.0	44.2	ug/L	88		SW846 8260B
	ND	50.0	48.3	ug/L	97	9.0	SW846 8260B
1,4-Dioxane	ND	200	218	ug/L	109		SW846 8260B
	ND	200	233	ug/L	117	6.8	SW846 8260B
2-Chloro-1,3-butadiene	ND	10.0	9.00	ug/L	90		SW846 8260B
	ND	10.0	9.01	ug/L	90	0.11	SW846 8260B
Dibromomethane	ND	10.0	9.60	ug/L	96		SW846 8260B
	ND	10.0	10.1	ug/L	101	4.8	SW846 8260B
1,2,3-Trichloropropane	ND	10.0	8.73	ug/L	87		SW846 8260B
	ND	10.0	9.35	ug/L	94	6.9	SW846 8260B
Vinyl chloride	ND	10.0	9.17	ug/L	92		SW846 8260B
	ND	10.0	8.97	ug/L	90	2.3	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRVAV1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060434-003 MRVAV1AH-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	ND	10.0	8.92	ug/L	89		SW846 8260B
	ND	10.0	9.93	ug/L	99	11	SW846 8260B
Methylene chloride	ND	10.0	9.91	ug/L	99		SW846 8260B
	ND	10.0	10.3	ug/L	103	3.6	SW846 8260B
Carbon disulfide	ND	10.0	10.7	ug/L	107		SW846 8260B
	ND	10.0	10.7	ug/L	107	0.18	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.84	ug/L	98		SW846 8260B
	ND	10.0	9.80	ug/L	98	0.38	SW846 8260B
2-Butanone	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.5	ug/L	105	4.1	SW846 8260B
Chloroform	0.81	10.0	10.6	ug/L	98		SW846 8260B
	0.81	10.0	10.8	ug/L	100	1.3	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	9.83	ug/L	98		SW846 8260B
	ND	10.0	10.2	ug/L	102	3.9	SW846 8260B
Propionitrile	ND	50.0	48.1	ug/L	96		SW846 8260B
	ND	50.0	48.4	ug/L	97	0.76	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	9.93	ug/L	99		SW846 8260B
	ND	10.0	10.2	ug/L	102	2.7	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.2	ug/L	102	0.09	SW846 8260B
Carbon tetrachloride	4.2	10.0	15.1	ug/L	110		SW846 8260B
	4.2	10.0	14.9	ug/L	108	1.3	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.46	ug/L	95		SW846 8260B
	ND	10.0	9.91	ug/L	99	4.6	SW846 8260B
Benzene	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.2	ug/L	102	0.89	SW846 8260B
Trichloroethene	ND	10.0	9.92	ug/L	99		SW846 8260B
	ND	10.0	10.0	ug/L	100	0.75	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	11.3	ug/L	113	12	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.84	ug/L	98		SW846 8260B
	ND	10.0	10.5	ug/L	105	6.2	SW846 8260B
Tetrachloroethene	ND	10.0	9.75	ug/L	98		SW846 8260B
	ND	10.0	9.87	ug/L	99	1.2	SW846 8260B
Tetrahydrofuran	ND	50.0	45.8	ug/L	92		SW846 8260B
	ND	50.0	50.6	ug/L	101	10	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	9.87	ug/L	99		SW846 8260B
	ND	10.0	10.2	ug/L	102	3.0	SW846 8260B
1-Butanol	ND	100	94.1	ug/L	94		SW846 8260B
	ND	100	98.3	ug/L	98	4.3	SW846 8260B
Toluene	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.3	ug/L	103	1.6	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRVAV1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060434-003 MRVAV1AH-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	103	(85 - 120)
	104	(85 - 120)
Dibromofluoromethane	99	(85 - 118)
	105	(85 - 118)
1,2-Dichloroethane-d4	101	(80 - 119)
	104	(80 - 119)
4-Bromofluorobenzene	95	(84 - 115)
	97	(84 - 115)

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 #...: SL1263 **Work Order #...:** MRVDC1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060436-001 MRVDC1AE-MSD
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/10/12
Prep Batch #...: 2101032
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Ethyl methacrylate		10.0	7.92	ug/L	79		SW846 8260B
		10.0	7.92	ug/L	79	0.0	SW846 8260B
Methyl methacrylate		10.0	7.42	ug/L	74		SW846 8260B
		10.0	7.57	ug/L	76	1.9	SW846 8260B
1,1,1,2-Tetrachloroethane		10.0	10.5	ug/L	105		SW846 8260B
		10.0	10.3	ug/L	103	2.6	SW846 8260B
Trichlorofluoromethane		10.0	9.29	ug/L	93		SW846 8260B
		10.0	9.51	ug/L	95	2.4	SW846 8260B
Acetonitrile		50.0	50.7	ug/L	101		SW846 8260B
		50.0	49.4	ug/L	99	2.5	SW846 8260B
Iodomethane		10.0	8.84	ug/L	88		SW846 8260B
		10.0	9.20	ug/L	92	3.9	SW846 8260B
Vinyl acetate		10.0	8.38	ug/L	84		SW846 8260B
		10.0	8.62	ug/L	86	2.8	SW846 8260B
Acrolein		50.0	46.2	ug/L	92		SW846 8260B
		50.0	46.5	ug/L	93	0.75	SW846 8260B
Acrylonitrile		50.0	52.3	ug/L	105		SW846 8260B
		50.0	54.4	ug/L	109	3.8	SW846 8260B
Isobutanol		200	171	ug/L	86		SW846 8260B
		200	188	ug/L	94	9.0	SW846 8260B
Methacrylonitrile		50.0	44.8	ug/L	90		SW846 8260B
		50.0	46.3	ug/L	93	3.3	SW846 8260B
1,4-Dioxane	ND	200	173	ug/L	87		SW846 8260B
	ND	200	195	ug/L	98	12	SW846 8260B
2-Chloro-1,3-butadiene		10.0	8.74	ug/L	87		SW846 8260B
		10.0	8.52	ug/L	85	2.6	SW846 8260B
Dibromomethane		10.0	9.98	ug/L	100		SW846 8260B
		10.0	9.90	ug/L	99	0.76	SW846 8260B
1,2,3-Trichloropropane		10.0	9.22	ug/L	92		SW846 8260B
		10.0	9.19	ug/L	92	0.36	SW846 8260B
cis-1,3-Dichloropropene		10.0	10.4	ug/L	104		SW846 8260B
		10.0	10.7	ug/L	107	3.1	SW846 8260B
Chloromethane		10.0	9.80	ug/L	98		SW846 8260B
		10.0	9.42	ug/L	94	4.0	SW846 8260B
Bromomethane		10.0	10.3	ug/L	103		SW846 8260B
		10.0	10.1	ug/L	101	2.0	SW846 8260B
Chloroethane		10.0	9.45	ug/L	94		SW846 8260B
		10.0	9.35	ug/L	94	1.0	SW846 8260B
1,1-Dichloroethene	ND	10.0	9.78	ug/L	98		SW846 8260B
	ND	10.0	9.69	ug/L	97	0.96	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRVDC1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060436-001 MRVDC1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2-Dichloroethene (total)		20.0	19.8	ug/L	99		SW846 8260B
		20.0	19.9	ug/L	99	0.45	SW846 8260B
1,2-Dichloropropane		10.0	9.48	ug/L	95		SW846 8260B
		10.0	9.48	ug/L	95	0.0	SW846 8260B
Bromodichloromethane		10.0	9.84	ug/L	98		SW846 8260B
		10.0	9.73	ug/L	97	1.0	SW846 8260B
trans-1,3-Dichloropropene		10.0	9.85	ug/L	99		SW846 8260B
		10.0	9.99	ug/L	100	1.4	SW846 8260B
2-Hexanone		10.0	8.97	ug/L	90		SW846 8260B
		10.0	9.02	ug/L	90	0.55	SW846 8260B
Chlorobenzene		10.0	9.38	ug/L	94		SW846 8260B
		10.0	9.24	ug/L	92	1.4	SW846 8260B
Bromoform		10.0	8.75	ug/L	87		SW846 8260B
		10.0	8.68	ug/L	87	0.82	SW846 8260B
Ethylbenzene	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	9.82	ug/L	98	2.8	SW846 8260B
Styrene		10.0	11.2	ug/L	112		SW846 8260B
		10.0	10.9	ug/L	109	3.0	SW846 8260B
1,1,2,2-Tetrachloroethane		10.0	9.27	ug/L	93		SW846 8260B
		10.0	9.39	ug/L	94	1.3	SW846 8260B
Dibromochloromethane		10.0	10.5	ug/L	105		SW846 8260B
		10.0	10.7	ug/L	107	1.6	SW846 8260B
Allyl chloride		10.0	9.45	ug/L	95		SW846 8260B
		10.0	9.47	ug/L	95	0.13	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)		10.0	9.02	ug/L	90		SW846 8260B
		10.0	9.57	ug/L	96	5.9	SW846 8260B
1,2-Dibromoethane		10.0	9.73	ug/L	97		SW846 8260B
		10.0	9.51	ug/L	95	2.3	SW846 8260B
trans-1,4-Dichloro-2-butene		10.0	10.3	ug/L	103		SW846 8260B
		10.0	9.75	ug/L	97	5.2	SW846 8260B
Dichlorodifluoromethane (Freon 12)		10.0	7.16	ug/L	72		SW846 8260B
		10.0	7.09	ug/L	71	0.96	SW846 8260B
Vinyl chloride	ND	10.0	8.71	ug/L	87		SW846 8260B
	ND	10.0	8.64	ug/L	86	0.78	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRVDC1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060436-001 MRVDC1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	ND	10.0	8.00	ug/L	80		SW846 8260B
	ND	10.0	8.67	ug/L	87	8.0	SW846 8260B
Methylene chloride	8.5	10.0	18.0	ug/L	95		SW846 8260B
	8.5	10.0	17.7	ug/L	92	1.7	SW846 8260B
Carbon disulfide	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.2	ug/L	102	1.2	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.87	ug/L	99		SW846 8260B
	ND	10.0	9.60	ug/L	96	2.8	SW846 8260B
2-Butanone	ND	10.0	9.37	ug/L	94		SW846 8260B
	ND	10.0	10.0	ug/L	100	6.6	SW846 8260B
Chloroform	ND	10.0	9.81	ug/L	98		SW846 8260B
	ND	10.0	9.76	ug/L	98	0.57	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	9.92	ug/L	99		SW846 8260B
	ND	10.0	10.0	ug/L	100	1.1	SW846 8260B
Propionitrile	ND	50.0	46.2	ug/L	92		SW846 8260B
	ND	50.0	48.7	ug/L	97	5.3	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	9.85	ug/L	99		SW846 8260B
	ND	10.0	9.83	ug/L	98	0.25	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	9.80	ug/L	98	3.8	SW846 8260B
Carbon tetrachloride	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.2	ug/L	102	0.78	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.57	ug/L	96		SW846 8260B
	ND	10.0	9.84	ug/L	98	2.8	SW846 8260B
Benzene	ND	10.0	9.98	ug/L	100		SW846 8260B
	ND	10.0	9.80	ug/L	98	1.8	SW846 8260B
Trichloroethene	ND	10.0	9.80	ug/L	98		SW846 8260B
	ND	10.0	9.62	ug/L	96	1.9	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.1	ug/L	101	0.29	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.79	ug/L	98		SW846 8260B
	ND	10.0	9.87	ug/L	99	0.89	SW846 8260B
Tetrachloroethene	ND	10.0	9.62	ug/L	96		SW846 8260B
	ND	10.0	9.54	ug/L	95	0.92	SW846 8260B
Tetrahydrofuran	ND	50.0	46.0	ug/L	92		SW846 8260B
	ND	50.0	47.5	ug/L	95	3.2	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	9.78	ug/L	98		SW846 8260B
	ND	10.0	9.87	ug/L	99	0.94	SW846 8260B
1-Butanol	ND	100	87.3	ug/L	87		SW846 8260B
	ND	100	96.2	ug/L	96	9.7	SW846 8260B
Toluene	0.10	10.0	10.3	ug/L	102		SW846 8260B
	0.10	10.0	10.1	ug/L	100	1.8	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRVDC1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060436-001 MRVDC1AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	102	(85 - 120)
	102	(85 - 120)
Dibromofluoromethane	104	(85 - 118)
	108	(85 - 118)
1,2-Dichloroethane-d4	100	(80 - 119)
	103	(80 - 119)
4-Bromofluorobenzene	97	(84 - 115)
	97	(84 - 115)

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 #...: SL1263 **Work Order #...:** MRVDH1AE-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060437-002 MRVDH1AF-MSD
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/10/12
Prep Batch #...: 2101032
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Methyl methacrylate	ND	10.0	7.72	ug/L	77		SW846 8260B
	ND	10.0	7.63	ug/L	76	1.2	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.6	ug/L	106	0.47	SW846 8260B
Trichlorofluoromethane	ND	10.0	9.31	ug/L	93		SW846 8260B
	ND	10.0	9.45	ug/L	95	1.6	SW846 8260B
Acetonitrile	ND	50.0	52.2	ug/L	104		SW846 8260B
	ND	50.0	50.7	ug/L	101	3.0	SW846 8260B
Iodomethane	ND	10.0	8.81	ug/L	88		SW846 8260B
	ND	10.0	9.71	ug/L	97	9.7	SW846 8260B
Vinyl acetate	ND	10.0	8.52	ug/L	85		SW846 8260B
	ND	10.0	8.39	ug/L	84	1.5	SW846 8260B
1,4-Dioxane	ND	200	169	ug/L	85		SW846 8260B
	ND	200	165	ug/L	83	2.4	SW846 8260B
2-Chloro-1,3-butadiene	ND	10.0	8.96	ug/L	90		SW846 8260B
	ND	10.0	8.68	ug/L	87	3.2	SW846 8260B
Bromomethane	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	9.68	ug/L	97	8.3	SW846 8260B
Dibromochloromethane	ND	10.0	10.7	ug/L	107		SW846 8260B
	ND	10.0	10.8	ug/L	108	0.27	SW846 8260B
	ND	10.0	9.90	ug/L	99	4.8	SW846 8260B
1,2-Dibromoethane	ND	10.0	9.82	ug/L	98		SW846 8260B
	ND	10.0	10.1	ug/L	101	2.7	SW846 8260B
cis-1,3-Dichloropropene	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.3	ug/L	103	3.0	SW846 8260B
Chloromethane	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	9.86	ug/L	99	2.4	SW846 8260B
Chloroethane	ND	10.0	9.46	ug/L	95		SW846 8260B
	ND	10.0	9.35	ug/L	93	1.2	SW846 8260B
1,1-Dichloroethene	ND	10.0	9.95	ug/L	100		SW846 8260B
	ND	10.0	10.3	ug/L	103	3.0	SW846 8260B
1,2-Dichloroethene (total)	ND	20.0	20.3	ug/L	101		SW846 8260B
	ND	20.0	20.2	ug/L	101	0.59	SW846 8260B
1,2-Dichloropropane	ND	10.0	9.99	ug/L	100		SW846 8260B
	ND	10.0	9.68	ug/L	97	3.2	SW846 8260B
Bromodichloromethane	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	9.87	ug/L	99	4.0	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRVDH1AE-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060437-002 MRVDH1AF-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
trans-1,3-Dichloropropene	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.86	ug/L	99	1.7	SW846 8260B
2-Hexanone	ND	10.0	8.75	ug/L	88		SW846 8260B
	ND	10.0	9.02	ug/L	90	3.1	SW846 8260B
Chlorobenzene	ND	10.0	9.49	ug/L	95		SW846 8260B
	ND	10.0	9.36	ug/L	94	1.4	SW846 8260B
Bromoform	ND	10.0	9.15	ug/L	92		SW846 8260B
	ND	10.0	8.99	ug/L	90	1.8	SW846 8260B
Ethylbenzene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	9.95	ug/L	100	2.9	SW846 8260B
Styrene	ND	10.0	11.3	ug/L	113		SW846 8260B
	ND	10.0	11.0	ug/L	110	2.5	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	9.80	ug/L	98		SW846 8260B
	ND	10.0	9.47	ug/L	95	3.4	SW846 8260B
Allyl chloride	ND	10.0	9.64	ug/L	96		SW846 8260B
	ND	10.0	9.55	ug/L	96	0.86	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.2	ug/L	102	2.1	SW846 8260B
Dichlorodifluoromethane (Freon 12)	ND	10.0	7.16	ug/L	72		SW846 8260B
	ND	10.0	7.14	ug/L	71	0.32	SW846 8260B
Ethyl methacrylate	ND	10.0	7.92	ug/L	79		SW846 8260B
	ND	10.0	8.08	ug/L	81	2.0	SW846 8260B
Acrolein	ND	50.0	46.5	ug/L	93		SW846 8260B
	ND	50.0	47.5	ug/L	95	2.2	SW846 8260B
Acrylonitrile		50.0	53.7	ug/L	107		SW846 8260B
		50.0	58.2	ug/L	116	8.1	SW846 8260B
Isobutanol	ND	200	182	ug/L	91		SW846 8260B
	ND	200	193	ug/L	96	5.5	SW846 8260B
Methacrylonitrile	ND	50.0	47.0	ug/L	94		SW846 8260B
	ND	50.0	46.9	ug/L	94	0.21	SW846 8260B
Dibromomethane	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.0	ug/L	100	0.59	SW846 8260B
1,2,3-Trichloropropane	ND	10.0	8.72	ug/L	87		SW846 8260B
	ND	10.0	9.27	ug/L	93	6.1	SW846 8260B
Vinyl chloride	ND	10.0	8.68	ug/L	87		SW846 8260B
	ND	10.0	8.69	ug/L	87	0.09	SW846 8260B
Acetone	ND	10.0	8.23	ug/L	82		SW846 8260B
	ND	10.0	8.89	ug/L	89	7.7	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRVDH1AE-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060437-002 MRVDH1AF-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Methylene chloride	0.40	10.0	10.5	ug/L	101		SW846 8260B
	0.40	10.0	10.6	ug/L	102	0.37	SW846 8260B
Carbon disulfide	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.5	ug/L	105	0.38	SW846 8260B
1,1-Dichloroethane	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	9.81	ug/L	98	3.2	SW846 8260B
2-Butanone	ND	10.0	10.7	ug/L	107		SW846 8260B
	ND	10.0	10.1	ug/L	101	6.1	SW846 8260B
Chloroform	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	9.95	ug/L	99	3.0	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.1	ug/L	101	1.3	SW846 8260B
Propionitrile	ND	50.0	47.2	ug/L	94		SW846 8260B
	ND	50.0	50.2	ug/L	100	6.2	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	10.0	ug/L	100	0.0	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.1	ug/L	101	2.1	SW846 8260B
Carbon tetrachloride	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.4	ug/L	104	1.4	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.87	ug/L	99		SW846 8260B
	ND	10.0	9.72	ug/L	97	1.6	SW846 8260B
Benzene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	9.87	ug/L	99	3.4	SW846 8260B
Trichloroethene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	9.75	ug/L	97	4.5	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.9	ug/L	109	6.8	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.89	ug/L	99		SW846 8260B
	ND	10.0	10.1	ug/L	101	2.5	SW846 8260B
Tetrachloroethene	ND	10.0	9.81	ug/L	98		SW846 8260B
	ND	10.0	9.63	ug/L	96	1.8	SW846 8260B
Tetrahydrofuran	ND	50.0	48.0	ug/L	96		SW846 8260B
	ND	50.0	47.0	ug/L	94	2.2	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	9.77	ug/L	98	4.3	SW846 8260B
1-Butanol	ND	100	90.0	ug/L	90		SW846 8260B
	ND	100	91.4	ug/L	91	1.5	SW846 8260B
Toluene	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.1	ug/L	101	3.4	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1263 **Work Order #...:** MRVDH1AE-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060437-002 MRVDH1AF-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	101	(85 - 120)
	102	(85 - 120)
Dibromofluoromethane	103	(85 - 118)
	105	(85 - 118)
1,2-Dichloroethane-d4	102	(80 - 119)
	102	(80 - 119)
4-Bromofluorobenzene	99	(84 - 115)
	96	(84 - 115)

NOTE(S):

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

Bold print denotes control parameters

GC/MS
SEMI-VOLATILES

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFJ3

GC/MS Semivolatiles

Lot-Sample #...: F2D050425-001 **Work Order #...:** MRTE21AE **Matrix.....:** WATER
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/19/12
Prep Batch #...: 2097037
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
Pyridine	ND	20	ug/L	2.0
N-Nitrosodimethylamine	ND	10	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
2,2'-oxybis (1-Chloropropane)	ND	10	ug/L	1.0
Acetophenone	ND	10	ug/L	1.1
4-Methylphenol	ND	10	ug/L	10
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

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFJ3

GC/MS Semivolatiles

Lot-Sample #...: F2D050425-001 **Work Order #...:** MRTE21AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	22
2,4-Dichlorophenol	ND	10	ug/L	1.1
1,2,4-Trichloro-benzene	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-Tetrachloro-benzene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	1.0
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2-Chloronaphthalene	ND	10	ug/L	1.0
Isosafrole	ND	20	ug/L	1.3
2-Nitroaniline	ND	50	ug/L	1.0
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

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFJ3

GC/MS Semivolatiles

Lot-Sample #...: F2D050425-001 **Work Order #...:** MRTE21AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
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	20
Aramite 2	ND	20	ug/L	20
p-Dimethylaminoazobenzene	ND	20	ug/L	1.0
p-Chlorobenzilate	ND	10	ug/L	1.0

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFJ3

GC/MS Semivolatiles

Lot-Sample #...: F2D050425-001 **Work Order #...:** MRTE21AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
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	50	(19 - 86)
Phenol-d5	32	(10 - 71)
Nitrobenzene-d5	85	(44 - 100)
2-Fluorobiphenyl	81	(44 - 99)
2,4,6-Tribromophenol	88	(43 - 115)
Terphenyl-d14	97	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2KFJ3

GC/MS Semivolatiles

Lot-Sample #: F2D050425-001 **Work Order #:** MRTE21AE **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		26 J	M	3.4192	ug/L
Unknown aldol condensate		24 J	M	3.9968	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: B2KFF9

GC/MS Semivolatiles

Lot-Sample #...: F2D050425-002 **Work Order #...:** MRTFA1AE **Matrix.....:** WATER
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/19/12
Prep Batch #...: 2097037
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
Pyridine	ND	20	ug/L	2.0
N-Nitrosodimethylamine	ND	10	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
2,2'-oxybis (1-Chloropropane)	ND	10	ug/L	1.0
Acetophenone	ND	10	ug/L	1.1
4-Methylphenol	ND	10	ug/L	10
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

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFF9

GC/MS Semivolatiles

Lot-Sample #...: F2D050425-002 **Work Order #...:** MRTFA1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	22
2,4-Dichlorophenol	ND	10	ug/L	1.1
1,2,4-Trichloro-benzene	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-Tetrachloro-benzene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	1.0
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2-Chloronaphthalene	ND	10	ug/L	1.0
Isosafrole	ND	20	ug/L	1.3
2-Nitroaniline	ND	50	ug/L	1.0
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

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFF9

GC/MS Semivolatiles

Lot-Sample #...: F2D050425-002 **Work Order #...:** MRTFA1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
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	20
Aramite 2	ND	20	ug/L	20
p-Dimethylaminoazobenzene	ND	20	ug/L	1.0
p-Chlorobenzilate	ND	10	ug/L	1.0

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFF9

GC/MS Semivolatiles

Lot-Sample #...: F2D050425-002 **Work Order #...:** MRTFA1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
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	50	(19 - 86)
Phenol-d5	31	(10 - 71)
Nitrobenzene-d5	84	(44 - 100)
2-Fluorobiphenyl	82	(44 - 99)
2,4,6-Tribromophenol	87	(43 - 115)
Terphenyl-d14	96	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2KFF9

GC/MS Semivolatiles

Lot-Sample #: F2D050425-002 **Work Order #:** MRTFA1AE **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aldol condensate		23 J	M	3.9966	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: B2KFD5

GC/MS Semivolatiles

Lot-Sample #...: F2D050425-003 **Work Order #...:** MRTFE1AE **Matrix.....:** WATER
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/19/12
Prep Batch #...: 2097037
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
Pyridine	ND	20	ug/L	2.0
N-Nitrosodimethylamine	ND	10	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
2,2'-oxybis (1-Chloropropane)	ND	10	ug/L	1.0
Acetophenone	ND	10	ug/L	1.1
4-Methylphenol	ND	10	ug/L	10
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

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFD5

GC/MS Semivolatiles

Lot-Sample #...: F2D050425-003 **Work Order #...:** MRTFE1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	22
2,4-Dichlorophenol	ND	10	ug/L	1.1
1,2,4-Trichloro-benzene	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-Tetrachloro-benzene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	1.0
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2-Chloronaphthalene	ND	10	ug/L	1.0
Isosafrole	ND	20	ug/L	1.3
2-Nitroaniline	ND	50	ug/L	1.0
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

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFD5

GC/MS Semivolatiles

Lot-Sample #...: F2D050425-003 **Work Order #...:** MRTFE1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
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	20
Aramite 2	ND	20	ug/L	20
p-Dimethylaminoazobenzene	ND	20	ug/L	1.0
p-Chlorobenzilate	ND	10	ug/L	1.0

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFD5

GC/MS Semivolatiles

Lot-Sample #...: F2D050425-003 **Work Order #...:** MRTFE1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
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	50	(19 - 86)
Phenol-d5	32	(10 - 71)
Nitrobenzene-d5	83	(44 - 100)
2-Fluorobiphenyl	80	(44 - 99)
2,4,6-Tribromophenol	88	(43 - 115)
Terphenyl-d14	95	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2KFD5

GC/MS Semivolatiles

Lot-Sample #: F2D050425-003 **Work Order #:** MRTFE1AE **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aldol condensate		28 J	M	3.9968	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: B2K4P3

GC/MS Semivolatiles

Lot-Sample #...: F2D060434-003 **Work Order #...:** MRVAV1AC **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12
Prep Date.....: 04/09/12 **Analysis Date..:** 04/19/12
Prep Batch #...: 2100122
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	10	ug/L	2.0
Pyridine	ND	20	ug/L	2.0
N-Nitrosodimethylamine	ND	10	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
2,2'-oxybis (1-Chloropropane)	ND	10	ug/L	1.0
Acetophenone	ND	10	ug/L	1.1
4-Methylphenol	ND	10	ug/L	10
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

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K4P3

GC/MS Semivolatiles

Lot-Sample #...: F2D060434-003 **Work Order #...:** MRVAV1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	22
2,4-Dichlorophenol	ND	10	ug/L	1.1
1,2,4-Trichloro-benzene	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-Tetrachloro-benzene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	1.0
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2-Chloronaphthalene	ND	10	ug/L	1.0
Isosafrole	ND	20	ug/L	1.3
2-Nitroaniline	ND	50	ug/L	1.0
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

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K4P3

GC/MS Semivolatiles

Lot-Sample #...: F2D060434-003 **Work Order #...:** MRVAV1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
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	20
Aramite 2	ND	20	ug/L	20
p-Dimethylaminoazobenzene	ND	20	ug/L	1.0
p-Chlorobenzilate	ND	10	ug/L	1.0

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K4P3

GC/MS Semivolatiles

Lot-Sample #...: F2D060434-003 **Work Order #...:** MRVAV1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
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	39	(19 - 86)
Phenol-d5	25	(10 - 71)
Nitrobenzene-d5	70	(44 - 100)
2-Fluorobiphenyl	70	(44 - 99)
2,4,6-Tribromophenol	78	(43 - 115)
Terphenyl-d14	88	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2K4P3

GC/MS Semivolatiles

Lot-Sample #: F2D060434-003 **Work Order #:** MRVAV1AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aldol condensate		8.6 J	M	3.9915	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 #...: SL1263 **Work Order #...:** MRT4G1AA **Matrix.....:** WATER
MB Lot-Sample #: F2D060000-037

Prep Date.....: 04/06/12
Analysis Date..: 04/18/12 **Prep Batch #...:** 2097037
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
Pyridine	ND	20	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	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
Benzyl alcohol	ND	10	ug/L	SW846 8270C
Hexachlorophene	ND	100	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
4-Methylphenol	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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRT4G1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
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
2-Nitroaniline	ND	50	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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRT4G1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
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	ND	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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRT4G1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
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	49	(19 - 86)
Phenol-d5	32	(10 - 71)
Nitrobenzene-d5	81	(44 - 100)
2-Fluorobiphenyl	74	(44 - 99)
2,4,6-Tribromophenol	83	(43 - 115)
Terphenyl-d14	92	(45 - 131)

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 Semivolatiles

Lot-Sample #: F2D060000-037 B **Work Order #:** MRT4G1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		34 J	M	3.6438	ug/L
Unknown aldol condensate		19 J	M	3.9808	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 #...: SL1263 **Work Order #...:** MRV671AA **Matrix.....:** WATER
MB Lot-Sample #: F2D090000-122

Prep Date.....: 04/09/12
Analysis Date..: 04/18/12 **Prep Batch #...:** 2100122
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
Pyridine	ND	20	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	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
Benzyl alcohol	ND	10	ug/L	SW846 8270C
Hexachlorophene	ND	100	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
4-Methylphenol	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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRV671AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
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
2-Nitroaniline	ND	50	ug/L	SW846 8270C
1,4-Naphthoquinone	**14 J**	**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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRV671AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
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	ND	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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRV671AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
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	48	(19 - 86)
Phenol-d5	32	(10 - 71)
Nitrobenzene-d5	74	(44 - 100)
2-Fluorobiphenyl	69	(44 - 99)
2,4,6-Tribromophenol	81	(43 - 115)
Terphenyl-d14	93	(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 #: F2D090000-122 B **Work Order #:** MRV671AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		13 J	M	3.6598	ug/L
Unknown aldol condensate		14 J	M	3.9967	ug/L

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 Work Order #...: MRT4G1AC Matrix.....: WATER
LCS Lot-Sample#: F2D060000-037
Prep Date.....: 04/06/12 Analysis Date..: 04/18/12
Prep Batch #...: 2097037
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
3-Methylphenol & 4-Methylphenol	100	70.9	ug/L	71	SW846 8270C
Phenol	100	35.3	ug/L	35	SW846 8270C
bis(2-Chloroethyl)-ether	100	77.6	ug/L	78	SW846 8270C
2-Chlorophenol	100	75.7	ug/L	76	SW846 8270C
1,3-Dichlorobenzene	100	71.4	ug/L	71	SW846 8270C
1,4-Dichlorobenzene	100	71.1	ug/L	71	SW846 8270C
1,2-Dichlorobenzene	100	72.7	ug/L	73	SW846 8270C
2-Methylphenol	100	68.2	ug/L	68	SW846 8270C
2,2'-oxybis (1-Chloropropane)	100	70.8	ug/L	71	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	82.3	ug/L	82	SW846 8270C
Hexachloroethane	100	72.1	ug/L	72	SW846 8270C
Nitrobenzene	100	77.0	ug/L	77	SW846 8270C
2-Methylnaphthalene	100	77.2	ug/L	77	SW846 8270C
Isophorone	100	72.6	ug/L	73	SW846 8270C
2-Nitrophenol	100	79.4	ug/L	79	SW846 8270C
2,4-Dimethylphenol	100	74.5	ug/L	74	SW846 8270C
bis(2-Chloroethoxy) methane	100	78.1	ug/L	78	SW846 8270C
2,4-Dichlorophenol	100	79.5	ug/L	80	SW846 8270C
1,2,4-Trichloro-benzene	100	75.4	ug/L	75	SW846 8270C
Naphthalene	100	74.8	ug/L	75	SW846 8270C
4-Chloroaniline	100	50.6	ug/L	51	SW846 8270C
Hexachlorobutadiene	100	77.0	ug/L	77	SW846 8270C
4-Chloro-3-methylphenol	100	77.9	ug/L	78	SW846 8270C
Hexachlorocyclopenta-diene	100	88.3	ug/L	88	SW846 8270C
2,4,6-Trichloro-phenol	100	81.0	ug/L	81	SW846 8270C
2,4,5-Trichloro-phenol	100	85.5	ug/L	86	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 Work Order #...: MRT4G1AC Matrix.....: WATER
LCS Lot-Sample#: F2D060000-037

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2-Chloronaphthalene	100	77.9	ug/L	78	SW846 8270C
2-Nitroaniline	100	78.0	ug/L	78	SW846 8270C
Dimethyl phthalate	100	84.5	ug/L	84	SW846 8270C
Acenaphthylene	100	80.0	ug/L	80	SW846 8270C
2,6-Dinitrotoluene	100	84.2	ug/L	84	SW846 8270C
3-Nitroaniline	100	56.3	ug/L	56	SW846 8270C
Acenaphthene	100	79.5	ug/L	80	SW846 8270C
2,4-Dinitrophenol	100	88.8	ug/L	89	SW846 8270C
4-Nitrophenol	100	35.9	ug/L	36	SW846 8270C
Dibenzofuran	100	79.1	ug/L	79	SW846 8270C
2,4-Dinitrotoluene	100	84.6	ug/L	85	SW846 8270C
Diethyl phthalate	100	84.4	ug/L	84	SW846 8270C
Fluorene	100	83.2	ug/L	83	SW846 8270C
4-Chlorophenyl phenyl ether	100	83.4	ug/L	83	SW846 8270C
4-Nitroaniline	100	72.3	ug/L	72	SW846 8270C
4,6-Dinitro-2-methylphenol	100	85.0	ug/L	85	SW846 8270C
Diphenylamine+N-Nitrosodi	100	93.9	ug/L	94	SW846 8270C
4-Bromophenyl phenyl ether	100	86.9	ug/L	87	SW846 8270C
Hexachlorobenzene	100	88.6	ug/L	89	SW846 8270C
Pentachlorophenol	100	86.3	ug/L	86	SW846 8270C
Phenanthrene	100	82.0	ug/L	82	SW846 8270C
Anthracene	100	80.5	ug/L	81	SW846 8270C
Carbazole	100	82.3	ug/L	82	SW846 8270C
Fluoranthene	100	85.1	ug/L	85	SW846 8270C
Pyrene	100	81.8	ug/L	82	SW846 8270C
Butyl benzyl phthalate	100	79.6	ug/L	80	SW846 8270C
Benzo(a)anthracene	100	95.3	ug/L	95	SW846 8270C
3,3'-Dichlorobenzidine	100	50.7	ug/L	51	SW846 8270C
Chrysene	100	83.5	ug/L	84	SW846 8270C
bis(2-Ethylhexyl) phthalate	100	81.4	ug/L	81	SW846 8270C
Di-n-butyl phthalate	100	82.7	ug/L	83	SW846 8270C
Di-n-octyl phthalate	100	83.3	ug/L	83	SW846 8270C
Benzo(b)fluoranthene	100	86.4	ug/L	86	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRT4G1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D060000-037

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzo(k)fluoranthene	**100**	**91.1**	**ug/L**	**91**	**SW846 8270C**
Benzo(a)pyrene	**100**	**81.4**	**ug/L**	**81**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**100**	**94.0**	**ug/L**	**94**	**SW846 8270C**
Benzo(ghi)perylene	**100**	**92.2**	**ug/L**	**92**	**SW846 8270C**
Dibenz(a,h)anthracene	**100**	**90.2**	**ug/L**	**90**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(29 - 62)
Phenol-d5	37	(20 - 42)
Nitrobenzene-d5	81	(51 - 98)
2-Fluorobiphenyl	78	(50 - 93)
2,4,6-Tribromophenol	89	(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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 Work Order #...: MRV671AC Matrix.....: WATER
LCS Lot-Sample#: F2D090000-122
Prep Date.....: 04/09/12 Analysis Date..: 04/18/12
Prep Batch #...: 2100122
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
3-Methylphenol & 4-Methylphenol	100	63.8	ug/L	64	SW846 8270C
Phenol	100	30.1	ug/L	30	SW846 8270C
bis(2-Chloroethyl)-ether	100	70.5	ug/L	71	SW846 8270C
2-Chlorophenol	100	68.5	ug/L	68	SW846 8270C
1,3-Dichlorobenzene	100	67.7	ug/L	68	SW846 8270C
1,4-Dichlorobenzene	100	67.7	ug/L	68	SW846 8270C
1,2-Dichlorobenzene	100	69.1	ug/L	69	SW846 8270C
2-Methylphenol	100	61.5	ug/L	62	SW846 8270C
2,2'-oxybis (1-Chloropropane)	100	65.2	ug/L	65	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	74.6	ug/L	75	SW846 8270C
Hexachloroethane	100	67.6	ug/L	68	SW846 8270C
Nitrobenzene	100	70.2	ug/L	70	SW846 8270C
2-Methylnaphthalene	100	71.4	ug/L	71	SW846 8270C
Isophorone	100	66.8	ug/L	67	SW846 8270C
2-Nitrophenol	100	72.6	ug/L	73	SW846 8270C
2,4-Dimethylphenol	100	69.5	ug/L	69	SW846 8270C
bis(2-Chloroethoxy) methane	100	71.6	ug/L	72	SW846 8270C
2,4-Dichlorophenol	100	72.3	ug/L	72	SW846 8270C
1,2,4-Trichloro-benzene	100	71.0	ug/L	71	SW846 8270C
Naphthalene	100	70.2	ug/L	70	SW846 8270C
4-Chloroaniline	100	48.8	ug/L	49	SW846 8270C
Hexachlorobutadiene	100	71.0	ug/L	71	SW846 8270C
4-Chloro-3-methylphenol	100	70.8	ug/L	71	SW846 8270C
Hexachlorocyclopenta-diene	100	89.3	ug/L	89	SW846 8270C
2,4,6-Trichloro-phenol	100	74.6	ug/L	75	SW846 8270C
2,4,5-Trichloro-phenol	100	77.4	ug/L	77	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 Work Order #...: MRV671AC Matrix.....: WATER
LCS Lot-Sample#: F2D090000-122

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2-Chloronaphthalene	100	71.4	ug/L	71	SW846 8270C
2-Nitroaniline	100	70.7	ug/L	71	SW846 8270C
Dimethyl phthalate	100	76.2	ug/L	76	SW846 8270C
Acenaphthylene	100	73.1	ug/L	73	SW846 8270C
2,6-Dinitrotoluene	100	75.8	ug/L	76	SW846 8270C
3-Nitroaniline	100	52.5	ug/L	52	SW846 8270C
Acenaphthene	100	73.2	ug/L	73	SW846 8270C
2,4-Dinitrophenol	100	78.4	ug/L	78	SW846 8270C
4-Nitrophenol	100	30.9	ug/L	31	SW846 8270C
Dibenzofuran	100	72.0	ug/L	72	SW846 8270C
2,4-Dinitrotoluene	100	76.8	ug/L	77	SW846 8270C
Diethyl phthalate	100	75.7	ug/L	76	SW846 8270C
Fluorene	100	75.5	ug/L	75	SW846 8270C
4-Chlorophenyl phenyl ether	100	75.5	ug/L	76	SW846 8270C
4-Nitroaniline	100	66.8	ug/L	67	SW846 8270C
4,6-Dinitro-2-methylphenol	100	76.4	ug/L	76	SW846 8270C
Diphenylamine+N-Nitrosodi	100	89.5	ug/L	90	SW846 8270C
4-Bromophenyl phenyl ether	100	77.8	ug/L	78	SW846 8270C
Hexachlorobenzene	100	80.1	ug/L	80	SW846 8270C
Pentachlorophenol	100	78.6	ug/L	79	SW846 8270C
Phenanthrene	100	74.0	ug/L	74	SW846 8270C
Anthracene	100	73.1	ug/L	73	SW846 8270C
Carbazole	100	75.1	ug/L	75	SW846 8270C
Fluoranthene	100	77.4	ug/L	77	SW846 8270C
Pyrene	100	74.3	ug/L	74	SW846 8270C
Butyl benzyl phthalate	100	72.0	ug/L	72	SW846 8270C
Benzo(a)anthracene	100	85.6	ug/L	86	SW846 8270C
3,3'-Dichlorobenzidine	100	50.9	ug/L	51	SW846 8270C
Chrysene	100	75.2	ug/L	75	SW846 8270C
bis(2-Ethylhexyl) phthalate	100	73.6	ug/L	74	SW846 8270C
Di-n-butyl phthalate	100	75.2	ug/L	75	SW846 8270C
Di-n-octyl phthalate	100	75.4	ug/L	75	SW846 8270C
Benzo(b)fluoranthene	100	76.9	ug/L	77	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRV671AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D090000-122

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzo(k)fluoranthene	**100**	**82.5**	**ug/L**	**82**	**SW846 8270C**
Benzo(a)pyrene	**100**	**74.6**	**ug/L**	**75**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**100**	**84.6**	**ug/L**	**85**	**SW846 8270C**
Benzo(ghi)perylene	**100**	**82.2**	**ug/L**	**82**	**SW846 8270C**
Dibenz(a,h)anthracene	**100**	**80.8**	**ug/L**	**81**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	48	(29 - 62)
Phenol-d5	32	(20 - 42)
Nitrobenzene-d5	74	(51 - 98)
2-Fluorobiphenyl	72	(50 - 93)
2,4,6-Tribromophenol	81	(54 - 109)
Terphenyl-d14	85	(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 #...: SL1263 **Work Order #...:** MRTFE1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D050425-003 MRTFE1AH-MSD
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/19/12
Prep Batch #...: 2097037
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
3-Methylphenol & 4-Methylphenol	ND	95.3	60.8	ug/L	64		SW846 8270C
	ND	95.1	60.6	ug/L	64	0.28	SW846 8270C
Phenol	ND	95.3	26.8	ug/L	28		SW846 8270C
	ND	95.1	26.9	ug/L	28	0.22	SW846 8270C
bis(2-Chloroethyl)-ether	ND	95.3	73.0	ug/L	77		SW846 8270C
	ND	95.1	70.5	ug/L	74	3.5	SW846 8270C
2-Chlorophenol	ND	95.3	71.0	ug/L	74		SW846 8270C
	ND	95.1	68.4	ug/L	72	3.7	SW846 8270C
1,3-Dichlorobenzene	ND	95.3	69.0	ug/L	72		SW846 8270C
	ND	95.1	65.9	ug/L	69	4.6	SW846 8270C
1,4-Dichlorobenzene	ND	95.3	68.8	ug/L	72		SW846 8270C
	ND	95.1	65.9	ug/L	69	4.2	SW846 8270C
1,2-Dichlorobenzene	ND	95.3	70.2	ug/L	74		SW846 8270C
	ND	95.1	67.4	ug/L	71	4.1	SW846 8270C
2-Methylphenol	ND	95.3	60.8	ug/L	64		SW846 8270C
	ND	95.1	59.6	ug/L	63	1.9	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	95.3	68.3	ug/L	72		SW846 8270C
	ND	95.1	66.2	ug/L	70	3.1	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	95.3	78.5	ug/L	82		SW846 8270C
	ND	95.1	75.0	ug/L	79	4.5	SW846 8270C
Hexachloroethane	ND	95.3	70.1	ug/L	74		SW846 8270C
	ND	95.1	66.9	ug/L	70	4.6	SW846 8270C
Nitrobenzene	ND	95.3	74.8	ug/L	78		SW846 8270C
	ND	95.1	71.9	ug/L	76	3.9	SW846 8270C
2-Methylnaphthalene	ND	95.3	76.3	ug/L	80		SW846 8270C
	ND	95.1	72.1	ug/L	76	5.6	SW846 8270C
Isophorone	ND	95.3	70.1	ug/L	74		SW846 8270C
	ND	95.1	67.4	ug/L	71	3.9	SW846 8270C
2-Nitrophenol	ND	95.3	76.9	ug/L	81		SW846 8270C
	ND	95.1	73.7	ug/L	77	4.2	SW846 8270C
2,4-Dimethylphenol	ND	95.3	70.2	ug/L	74		SW846 8270C
	ND	95.1	68.4	ug/L	72	2.5	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRTFE1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D050425-003 MRTFE1AH-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
bis(2-Chloroethoxy) methane	ND	95.3	75.5	ug/L	79		SW846 8270C
	ND	95.1	72.2	ug/L	76	4.6	SW846 8270C
2,4-Dichlorophenol	ND	95.3	76.0	ug/L	80		SW846 8270C
	ND	95.1	72.7	ug/L	76	4.3	SW846 8270C
1,2,4-Trichloro- benzene	ND	95.3	74.8	ug/L	78		SW846 8270C
	ND	95.1	71.2	ug/L	75	4.9	SW846 8270C
Naphthalene	ND	95.3	73.8	ug/L	77		SW846 8270C
	ND	95.1	70.4	ug/L	74	4.7	SW846 8270C
4-Chloroaniline	ND	95.3	52.2	ug/L	55		SW846 8270C
	ND	95.1	51.1	ug/L	54	2.1	SW846 8270C
Hexachlorobutadiene	ND	95.3	76.2	ug/L	80		SW846 8270C
	ND	95.1	72.4	ug/L	76	5.1	SW846 8270C
4-Chloro-3-methylphenol	ND	95.3	73.1	ug/L	77		SW846 8270C
	ND	95.1	71.6	ug/L	75	2.0	SW846 8270C
Hexachlorocyclopenta- diene	ND	95.3	91.1	ug/L	96		SW846 8270C
	ND	95.1	87.4	ug/L	92	4.1	SW846 8270C
2,4,6-Trichloro- phenol	ND	95.3	78.2	ug/L	82		SW846 8270C
	ND	95.1	75.9	ug/L	80	3.0	SW846 8270C
2,4,5-Trichloro- phenol	ND	95.3	80.8	ug/L	85		SW846 8270C
	ND	95.1	78.9	ug/L	83	2.3	SW846 8270C
2-Chloronaphthalene	ND	95.3	76.2	ug/L	80		SW846 8270C
	ND	95.1	72.7	ug/L	76	4.7	SW846 8270C
2-Nitroaniline	ND	95.3	71.1	ug/L	75		SW846 8270C
	ND	95.1	68.3	ug/L	72	4.0	SW846 8270C
Dimethyl phthalate	ND	95.3	79.5	ug/L	83		SW846 8270C
	ND	95.1	77.7	ug/L	82	2.3	SW846 8270C
Acenaphthylene	ND	95.3	77.9	ug/L	82		SW846 8270C
	ND	95.1	75.0	ug/L	79	3.7	SW846 8270C
2,6-Dinitrotoluene	ND	95.3	79.0	ug/L	83		SW846 8270C
	ND	95.1	77.7	ug/L	82	1.7	SW846 8270C
3-Nitroaniline	ND	95.3	62.2	ug/L	65		SW846 8270C
	ND	95.1	62.2	ug/L	65	0.0	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRTFE1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D050425-003 MRTFE1AH-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	95.3	77.1	ug/L	81		SW846 8270C
	ND	95.1	74.6	ug/L	78	3.3	SW846 8270C
2,4-Dinitrophenol	ND	95.3	82.2	ug/L	86		SW846 8270C
	ND	95.1	80.2	ug/L	84	2.5	SW846 8270C
4-Nitrophenol	ND	95.3	29.0	ug/L	30		SW846 8270C
	ND	95.1	29.3	ug/L	31	1.2	SW846 8270C
Dibenzofuran	ND	95.3	75.7	ug/L	79		SW846 8270C
	ND	95.1	73.1	ug/L	77	3.5	SW846 8270C
2,4-Dinitrotoluene	ND	95.3	79.6	ug/L	84		SW846 8270C
	ND	95.1	78.3	ug/L	82	1.7	SW846 8270C
Diethyl phthalate	ND	95.3	79.6	ug/L	83		SW846 8270C
	ND	95.1	77.9	ug/L	82	2.2	SW846 8270C
Fluorene	ND	95.3	78.9	ug/L	83		SW846 8270C
	ND	95.1	77.0	ug/L	81	2.5	SW846 8270C
4-Chlorophenyl phenyl ether	ND	95.3	80.0	ug/L	84		SW846 8270C
	ND	95.1	77.3	ug/L	81	3.4	SW846 8270C
4-Nitroaniline	ND	95.3	69.2	ug/L	73		SW846 8270C
	ND	95.1	67.2	ug/L	71	3.0	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	95.3	79.5	ug/L	83		SW846 8270C
	ND	95.1	78.6	ug/L	83	1.1	SW846 8270C
Diphenylamine+N-Nitrosodi	ND	95.3	93.5	ug/L	98		SW846 8270C
	ND	95.1	92.2	ug/L	97	1.4	SW846 8270C
4-Bromophenyl phenyl ether	ND	95.3	81.7	ug/L	86		SW846 8270C
	ND	95.1	80.6	ug/L	85	1.4	SW846 8270C
Hexachlorobenzene	ND	95.3	83.0	ug/L	87		SW846 8270C
	ND	95.1	83.2	ug/L	88	0.27	SW846 8270C
Pentachlorophenol	ND	95.3	81.9	ug/L	86		SW846 8270C
	ND	95.1	81.4	ug/L	86	0.60	SW846 8270C
Phenanthrene	ND	95.3	77.0	ug/L	81		SW846 8270C
	ND	95.1	76.0	ug/L	80	1.3	SW846 8270C
Anthracene	ND	95.3	76.8	ug/L	81		SW846 8270C
	ND	95.1	76.4	ug/L	80	0.50	SW846 8270C
Carbazole	ND	95.3	78.1	ug/L	82		SW846 8270C
	ND	95.1	77.6	ug/L	82	0.69	SW846 8270C
Fluoranthene	ND	95.3	80.2	ug/L	84		SW846 8270C
	ND	95.1	79.9	ug/L	84	0.31	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRTFE1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D050425-003 MRTFE1AH-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Pyrene	ND	95.3	78.3	ug/L	82		SW846 8270C
	ND	95.1	77.5	ug/L	81	1.1	SW846 8270C
Butyl benzyl phthalate	ND	95.3	76.3	ug/L	80		SW846 8270C
	ND	95.1	75.4	ug/L	79	1.1	SW846 8270C
Benzo(a)anthracene	ND	95.3	90.4	ug/L	95		SW846 8270C
	ND	95.1	89.9	ug/L	95	0.56	SW846 8270C
3,3'-Dichlorobenzidine	ND	95.3	49.6	ug/L	52		SW846 8270C
	ND	95.1	48.1	ug/L	51	3.1	SW846 8270C
Chrysene	ND	95.3	79.1	ug/L	83		SW846 8270C
	ND	95.1	78.7	ug/L	83	0.60	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	95.3	77.8	ug/L	82		SW846 8270C
	ND	95.1	77.5	ug/L	82	0.39	SW846 8270C
Di-n-butyl phthalate	ND	95.3	77.7	ug/L	81		SW846 8270C
	ND	95.1	77.6	ug/L	82	0.12	SW846 8270C
Di-n-octyl phthalate	ND	95.3	79.9	ug/L	84		SW846 8270C
	ND	95.1	78.9	ug/L	83	1.2	SW846 8270C
Benzo(b)fluoranthene	ND	95.3	81.9	ug/L	86		SW846 8270C
	ND	95.1	84.2	ug/L	89	2.8	SW846 8270C
Benzo(k)fluoranthene	ND	95.3	86.2	ug/L	90		SW846 8270C
	ND	95.1	84.6	ug/L	89	1.8	SW846 8270C
Benzo(a)pyrene	ND	95.3	78.4	ug/L	82		SW846 8270C
	ND	95.1	78.0	ug/L	82	0.40	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	95.3	88.6	ug/L	93		SW846 8270C
	ND	95.1	90.4	ug/L	95	2.0	SW846 8270C
Benzo(ghi)perylene	ND	95.3	86.6	ug/L	91		SW846 8270C
	ND	95.1	86.4	ug/L	91	0.25	SW846 8270C
Dibenz(a,h)anthracene	ND	95.3	85.7	ug/L	90		SW846 8270C
	ND	95.1	85.6	ug/L	90	0.09	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	48	(19 - 86)
	47	(19 - 86)
Phenol-d5	30	(10 - 71)
	30	(10 - 71)
Nitrobenzene-d5	83	(44 - 100)
	78	(44 - 100)
2-Fluorobiphenyl	83	(44 - 99)
	79	(44 - 99)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRTFE1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D050425-003 MRTFE1AH-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	89	(43 - 115)
	87	(43 - 115)
Terphenyl-d14	95	(45 - 131)
	94	(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 #...: SL1263 **Work Order #...:** MRVAV1AE-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060434-003 MRVAV1AF-MSD
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12
Prep Date.....: 04/09/12 **Analysis Date..:** 04/19/12
Prep Batch #...: 2100122
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
3-Methylphenol & 4-Methylphenol	ND	190	132	ug/L	70		SW846 8270C
	ND	192	130	ug/L	68	1.8	SW846 8270C
Phenol	ND	190	75.2	ug/L	40		SW846 8270C
	ND	192	73.7	ug/L	38	2.0	SW846 8270C
bis(2-Chloroethyl)-ether	ND	190	128	ug/L	68		SW846 8270C
	ND	192	125	ug/L	65	3.0	SW846 8270C
2-Chlorophenol	ND	190	130	ug/L	68		SW846 8270C
	ND	192	127	ug/L	66	2.0	SW846 8270C
1,3-Dichlorobenzene	ND	190	126	ug/L	66		SW846 8270C
	ND	192	121	ug/L	63	3.6	SW846 8270C
1,4-Dichlorobenzene	ND	190	125	ug/L	66		SW846 8270C
	ND	192	121	ug/L	63	3.3	SW846 8270C
1,2-Dichlorobenzene	ND	190	129	ug/L	68		SW846 8270C
	ND	192	124	ug/L	64	4.0	SW846 8270C
2-Methylphenol	ND	190	123	ug/L	65		SW846 8270C
	ND	192	121	ug/L	63	1.6	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	190	122	ug/L	64		SW846 8270C
	ND	192	119	ug/L	62	2.7	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	190	139	ug/L	73		SW846 8270C
	ND	192	136	ug/L	71	2.3	SW846 8270C
Hexachloroethane	ND	190	126	ug/L	67		SW846 8270C
	ND	192	122	ug/L	64	3.8	SW846 8270C
Nitrobenzene	ND	190	140	ug/L	74		SW846 8270C
	ND	192	137	ug/L	71	2.0	SW846 8270C
2-Methylnaphthalene	ND	190	138	ug/L	73		SW846 8270C
	ND	192	135	ug/L	70	2.8	SW846 8270C
Isophorone	ND	190	126	ug/L	66		SW846 8270C
	ND	192	123	ug/L	64	2.5	SW846 8270C
2-Nitrophenol	ND	190	136	ug/L	72		SW846 8270C
	ND	192	134	ug/L	70	1.9	SW846 8270C
2,4-Dimethylphenol	ND	190	128	ug/L	67		SW846 8270C
	ND	192	125	ug/L	65	2.4	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRVAV1AE-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060434-003 MRVAV1AF-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
bis(2-Chloroethoxy) methane	ND	190	135	ug/L	71		SW846 8270C
	ND	192	131	ug/L	68	3.1	SW846 8270C
2,4-Dichlorophenol	ND	190	138	ug/L	73		SW846 8270C
	ND	192	134	ug/L	70	2.3	SW846 8270C
1,2,4-Trichloro- benzene	ND	190	135	ug/L	71		SW846 8270C
	ND	192	131	ug/L	68	2.9	SW846 8270C
Naphthalene	ND	190	134	ug/L	70		SW846 8270C
	ND	192	130	ug/L	68	2.8	SW846 8270C
4-Chloroaniline	ND	190	89.0	ug/L	47		SW846 8270C
	ND	192	92.9	ug/L	48	4.2	SW846 8270C
Hexachlorobutadiene	ND	190	137	ug/L	72		SW846 8270C
	ND	192	132	ug/L	69	3.5	SW846 8270C
4-Chloro-3-methylphenol	ND	190	140	ug/L	74		SW846 8270C
	ND	192	136	ug/L	71	2.6	SW846 8270C
Hexachlorocyclopenta- diene	ND	190	169	ug/L	89		SW846 8270C
	ND	192	168	ug/L	87	0.71	SW846 8270C
2,4,6-Trichloro- phenol	ND	190	142	ug/L	75		SW846 8270C
	ND	192	140	ug/L	73	1.8	SW846 8270C
2,4,5-Trichloro- phenol	ND	190	150	ug/L	79		SW846 8270C
	ND	192	146	ug/L	76	2.9	SW846 8270C
2-Chloronaphthalene	ND	190	138	ug/L	73		SW846 8270C
	ND	192	135	ug/L	70	2.6	SW846 8270C
2-Nitroaniline	ND	190	119	ug/L	63		SW846 8270C
	ND	192	115	ug/L	60	3.8	SW846 8270C
Dimethyl phthalate	ND	190	151	ug/L	80		SW846 8270C
	ND	192	146	ug/L	76	3.4	SW846 8270C
Acenaphthylene	ND	190	143	ug/L	76		SW846 8270C
	ND	192	139	ug/L	73	2.8	SW846 8270C
2,6-Dinitrotoluene	ND	190	150	ug/L	79		SW846 8270C
	ND	192	146	ug/L	76	2.4	SW846 8270C
3-Nitroaniline	ND	190	114	ug/L	60		SW846 8270C
	ND	192	114	ug/L	60	0.08	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRVAV1AE-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060434-003 MRVAV1AF-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	190	143	ug/L	75		SW846 8270C
	ND	192	139	ug/L	72	3.1	SW846 8270C
2,4-Dinitrophenol	ND	190	159	ug/L	84		SW846 8270C
	ND	192	161	ug/L	84	1.2	SW846 8270C
4-Nitrophenol	ND	190	88.0	ug/L	46		SW846 8270C
	ND	192	86.8	ug/L	45	1.4	SW846 8270C
Dibenzofuran	ND	190	142	ug/L	75		SW846 8270C
	ND	192	137	ug/L	72	3.2	SW846 8270C
2,4-Dinitrotoluene	ND	190	155	ug/L	82		SW846 8270C
	ND	192	151	ug/L	79	2.5	SW846 8270C
Diethyl phthalate	ND	190	153	ug/L	81		SW846 8270C
	ND	192	148	ug/L	77	3.2	SW846 8270C
Fluorene	ND	190	149	ug/L	79		SW846 8270C
	ND	192	145	ug/L	75	3.1	SW846 8270C
4-Chlorophenyl phenyl ether	ND	190	150	ug/L	79		SW846 8270C
	ND	192	146	ug/L	76	2.4	SW846 8270C
4-Nitroaniline	ND	190	128	ug/L	67		SW846 8270C
	ND	192	127	ug/L	66	1.0	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	190	155	ug/L	82		SW846 8270C
	ND	192	152	ug/L	79	1.7	SW846 8270C
Diphenylamine+N-Nitrosodi	ND	190	180	ug/L	95		SW846 8270C
	ND	192	172	ug/L	90	4.1	SW846 8270C
4-Bromophenyl phenyl ether	ND	190	155	ug/L	82		SW846 8270C
	ND	192	151	ug/L	79	2.9	SW846 8270C
Hexachlorobenzene	ND	190	159	ug/L	84		SW846 8270C
	ND	192	155	ug/L	81	2.9	SW846 8270C
Pentachlorophenol	ND	190	160	ug/L	84		SW846 8270C
	ND	192	158	ug/L	82	1.4	SW846 8270C
Phenanthrene	ND	190	149	ug/L	78		SW846 8270C
	ND	192	144	ug/L	75	3.4	SW846 8270C
Anthracene	ND	190	148	ug/L	78		SW846 8270C
	ND	192	144	ug/L	75	2.9	SW846 8270C
Carbazole	ND	190	151	ug/L	80		SW846 8270C
	ND	192	148	ug/L	77	2.3	SW846 8270C
Fluoranthene	ND	190	156	ug/L	82		SW846 8270C
	ND	192	153	ug/L	80	2.1	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRVAV1AE-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060434-003 MRVAV1AF-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Pyrene	ND	190	150	ug/L	79		SW846 8270C
	ND	192	145	ug/L	76	3.3	SW846 8270C
Butyl benzyl phthalate	ND	190	146	ug/L	77		SW846 8270C
	ND	192	142	ug/L	74	2.8	SW846 8270C
Benzo(a)anthracene	ND	190	174	ug/L	92		SW846 8270C
	ND	192	170	ug/L	89	2.3	SW846 8270C
3,3'-Dichlorobenzidine	ND	190	94.2	ug/L	50		SW846 8270C
	ND	192	94.8	ug/L	49	0.69	SW846 8270C
Chrysene	ND	190	152	ug/L	80		SW846 8270C
	ND	192	148	ug/L	77	3.1	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	190	149	ug/L	78		SW846 8270C
	ND	192	146	ug/L	76	2.2	SW846 8270C
Di-n-butyl phthalate	ND	190	152	ug/L	80		SW846 8270C
	ND	192	147	ug/L	77	2.9	SW846 8270C
Di-n-octyl phthalate	ND	190	154	ug/L	81		SW846 8270C
	ND	192	150	ug/L	78	2.3	SW846 8270C
Benzo(b)fluoranthene	ND	190	164	ug/L	86		SW846 8270C
	ND	192	152	ug/L	80	7.0	SW846 8270C
Benzo(k)fluoranthene	ND	190	163	ug/L	86		SW846 8270C
	ND	192	164	ug/L	86	0.73	SW846 8270C
Benzo(a)pyrene	ND	190	155	ug/L	82		SW846 8270C
	ND	192	149	ug/L	78	4.1	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	190	172	ug/L	90		SW846 8270C
	ND	192	166	ug/L	86	3.6	SW846 8270C
Benzo(ghi)perylene	ND	190	166	ug/L	87		SW846 8270C
	ND	192	160	ug/L	83	3.7	SW846 8270C
Dibenz(a,h)anthracene	ND	190	165	ug/L	87		SW846 8270C
	ND	192	160	ug/L	83	3.5	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(19 - 86)
	54	(19 - 86)
Phenol-d5	42	(10 - 71)
	41	(10 - 71)
Nitrobenzene-d5	73	(44 - 100)
	70	(44 - 100)
2-Fluorobiphenyl	76	(44 - 99)
	73	(44 - 99)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRVAV1AE-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D060434-003 MRVAV1AF-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	85	(43 - 115)
	82	(43 - 115)
Terphenyl-d14	92	(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

Phenols

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K4J8

GC Semivolatiles

Lot-Sample #...: F2D060434-001 **Work Order #...:** MRVAL1AC **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2102128
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	79	(54 - 139)
2-Fluorophenol	74	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K4J9

GC Semivolatiles

Lot-Sample #...: F2D060434-002 **Work Order #...:** MRVAT1AC **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2102128
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	87	(54 - 139)
2-Fluorophenol	75	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KKF0

GC Semivolatiles

Lot-Sample #...: F2D100431-001 **Work Order #...:** MRWR71AC **Matrix.....:** WATER
Date Sampled...: 04/05/12 **Date Received..:** 04/10/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2102128
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	85	(54 - 139)
2-Fluorophenol	77	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KKF5

GC Semivolatiles

Lot-Sample #...: F2D100431-002 **Work Order #...:** MRWR91AC **Matrix.....:** WATER
Date Sampled...: 04/05/12 **Date Received..:** 04/10/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2102128
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	83	(54 - 139)
2-Fluorophenol	73	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L1Y2

GC Semivolatiles

Lot-Sample #...: F2D100431-003 **Work Order #...:** MRWTA1AC **Matrix.....:** WATER
Date Sampled...: 04/05/12 **Date Received..:** 04/10/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2102128
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	85	(54 - 139)
2-Fluorophenol	76	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K4N6

GC Semivolatiles

Lot-Sample #...: F2D110423-001 **Work Order #...:** MRXJT1AC **Matrix.....:** WATER
Date Sampled...: 04/09/12 **Date Received..:** 04/11/12
Prep Date.....: 04/12/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2103114
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	83	(54 - 139)
2-Fluorophenol	67	(34 - 121)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRXRR1AA **Matrix.....:** WATER
MB Lot-Sample #: F2D110000-128

Prep Date.....: 04/10/12
Analysis Date..: 04/17/12 **Prep Batch #...:** 2102128
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2-Chlorophenol	ND	5.0	ug/L	SW846 8040A
4-Chloro-3-methylphenol	ND	5.0	ug/L	SW846 8040A
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	SW846 8040A
2-Methylphenol	ND	5.0	ug/L	SW846 8040A
2,4-Dichlorophenol	ND	5.0	ug/L	SW846 8040A
2,6-Dichlorophenol	ND	5.0	ug/L	SW846 8040A
2,4-Dimethylphenol	ND	5.0	ug/L	SW846 8040A
2,4-Dinitrophenol	ND	5.0	ug/L	SW846 8040A
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	SW846 8040A
Dinoseb	ND	5.0	ug/L	SW846 8040A
2-Nitrophenol	ND	5.0	ug/L	SW846 8040A
4-Nitrophenol	ND	5.0	ug/L	SW846 8040A
Pentachlorophenol	ND	5.0	ug/L	SW846 8040A
Phenol	ND	5.0	ug/L	SW846 8040A
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	SW846 8040A
2,4,5-Trichloro-phenol	ND	5.0	ug/L	SW846 8040A
2,4,6-Trichloro-phenol	ND	5.0	ug/L	SW846 8040A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	78	(54 - 139)
2-Fluorophenol	73	(34 - 121)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MR0G11AA **Matrix.....:** WATER
MB Lot-Sample #: F2D120000-114

Prep Date.....: 04/12/12
Analysis Date..: 04/17/12 **Prep Batch #...:** 2103114
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2-Chlorophenol	ND	5.0	ug/L	SW846 8040A
4-Chloro-3-methylphenol	ND	5.0	ug/L	SW846 8040A
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	SW846 8040A
2-Methylphenol	ND	5.0	ug/L	SW846 8040A
2,4-Dichlorophenol	ND	5.0	ug/L	SW846 8040A
2,6-Dichlorophenol	ND	5.0	ug/L	SW846 8040A
2,4-Dimethylphenol	ND	5.0	ug/L	SW846 8040A
2,4-Dinitrophenol	ND	5.0	ug/L	SW846 8040A
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	SW846 8040A
Dinoseb	ND	5.0	ug/L	SW846 8040A
2-Nitrophenol	ND	5.0	ug/L	SW846 8040A
4-Nitrophenol	ND	5.0	ug/L	SW846 8040A
Pentachlorophenol	ND	5.0	ug/L	SW846 8040A
Phenol	ND	5.0	ug/L	SW846 8040A
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	SW846 8040A
2,4,5-Trichloro-phenol	ND	5.0	ug/L	SW846 8040A
2,4,6-Trichloro-phenol	ND	5.0	ug/L	SW846 8040A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	80	(54 - 139)
2-Fluorophenol	72	(34 - 121)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRXRR1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D110000-128
Prep Date.....: 04/10/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2102128
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2-Chlorophenol	100	75.6	ug/L	76	SW846 8040A
4-Chloro-3-methylphenol	100	79.1	ug/L	79	SW846 8040A
3-Methylphenol & 4-Methylphenol	100	76.8	ug/L	77	SW846 8040A
2-Methylphenol	100	75.1	ug/L	75	SW846 8040A
2,4-Dichlorophenol	100	76.4	ug/L	76	SW846 8040A
2,6-Dichlorophenol	100	77.7	ug/L	78	SW846 8040A
2,4-Dimethylphenol	100	68.2	ug/L	68	SW846 8040A
2,4-Dinitrophenol	100	78.7	ug/L	79	SW846 8040A
4,6-Dinitro-2-methylphenol	100	94.8	ug/L	95	SW846 8040A
Dinoseb	100	100	ug/L	100	SW846 8040A
2-Nitrophenol	100	78.3	ug/L	78	SW846 8040A
4-Nitrophenol	100	86.5	ug/L	86	SW846 8040A
Pentachlorophenol	100	91.2	ug/L	91	SW846 8040A
Phenol	100	75.3	ug/L	75	SW846 8040A
2,3,4,6-Tetrachlorophenol	100	85.0	ug/L	85	SW846 8040A
2,4,5-Trichloro-phenol	100	81.4	ug/L	81	SW846 8040A
2,4,6-Trichloro-phenol	100	80.2	ug/L	80	SW846 8040A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	93	(43 - 140)
2-Fluorophenol	76	(38 - 122)

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 Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MR0G11AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D120000-114
Prep Date.....: 04/12/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2103114
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2-Chlorophenol	100	79.8	ug/L	80	SW846 8040A
4-Chloro-3-methylphenol	100	81.8	ug/L	82	SW846 8040A
3-Methylphenol & 4-Methylphenol	100	79.4	ug/L	79	SW846 8040A
2-Methylphenol	100	79.0	ug/L	79	SW846 8040A
2,4-Dichlorophenol	100	79.6	ug/L	80	SW846 8040A
2,6-Dichlorophenol	100	81.3	ug/L	81	SW846 8040A
2,4-Dimethylphenol	100	80.2	ug/L	80	SW846 8040A
2,4-Dinitrophenol	100	79.4	ug/L	79	SW846 8040A
4,6-Dinitro-2-methylphenol	100	89.6	ug/L	90	SW846 8040A
Dinoseb	100	98.8	ug/L	99	SW846 8040A
2-Nitrophenol	100	80.9	ug/L	81	SW846 8040A
4-Nitrophenol	100	75.3	ug/L	75	SW846 8040A
Pentachlorophenol	100	95.0	ug/L	95	SW846 8040A
Phenol	100	76.6	ug/L	77	SW846 8040A
2,3,4,6-Tetrachlorophenol	100	85.2	ug/L	85	SW846 8040A
2,4,5-Trichloro-phenol	100	84.7	ug/L	85	SW846 8040A
2,4,6-Trichloro-phenol	100	84.0	ug/L	84	SW846 8040A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	91	(43 - 140)
2-Fluorophenol	79	(38 - 122)

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 #...: SL1263 **Work Order #...:** MRXJT1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D110423-001 MRXJT1AE-MSD
Date Sampled...: 04/09/12 **Date Received..:** 04/11/12
Prep Date.....: 04/12/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2103114
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2-Chlorophenol	ND	98.3	80.0	ug/L	81		SW846 8040A
	ND	99.4	82.4	ug/L	83	2.9	SW846 8040A
4-Chloro-3-methylphenol	ND	98.3	81.8	ug/L	83		SW846 8040A
	ND	99.4	81.0	ug/L	82	0.90	SW846 8040A
3-Methylphenol & 4-Methylphenol	ND	98.3	80.0	ug/L	81		SW846 8040A
	ND	99.4	81.6	ug/L	82	1.9	SW846 8040A
2-Methylphenol	ND	98.3	79.2	ug/L	81		SW846 8040A
	ND	99.4	80.7	ug/L	81	1.9	SW846 8040A
2,4-Dichlorophenol	ND	98.3	80.4	ug/L	82		SW846 8040A
	ND	99.4	81.2	ug/L	82	1.0	SW846 8040A
2,6-Dichlorophenol	ND	98.3	81.8	ug/L	83		SW846 8040A
	ND	99.4	82.3	ug/L	83	0.60	SW846 8040A
2,4-Dimethylphenol	ND	98.3	76.7	ug/L	78		SW846 8040A
	ND	99.4	77.6	ug/L	78	1.2	SW846 8040A
2,4-Dinitrophenol	ND	98.3	85.3	ug/L	87		SW846 8040A
	ND	99.4	79.8	ug/L	80	6.6	SW846 8040A
4,6-Dinitro-2-methylphenol	ND	98.3	93.3	ug/L	95		SW846 8040A
	ND	99.4	87.2	ug/L	88	6.8	SW846 8040A
Dinoseb	ND	98.3	101	ug/L	102		SW846 8040A
	ND	99.4	93.2	ug/L	94	7.7	SW846 8040A
2-Nitrophenol	ND	98.3	82.0	ug/L	83		SW846 8040A
	ND	99.4	82.7	ug/L	83	0.94	SW846 8040A
4-Nitrophenol	ND	98.3	78.9	ug/L	80		SW846 8040A
	ND	99.4	77.1	ug/L	78	2.3	SW846 8040A
Pentachlorophenol	ND	98.3	96.3	ug/L	98		SW846 8040A
	ND	99.4	89.6	ug/L	90	7.2	SW846 8040A
Phenol	ND	98.3	77.1	ug/L	78		SW846 8040A
	ND	99.4	80.6	ug/L	81	4.5	SW846 8040A
2,3,4,6-Tetrachlorophenol	ND	98.3	86.8	ug/L	88		SW846 8040A
	ND	99.4	82.7	ug/L	83	4.8	SW846 8040A
2,4,5-Trichloro-phenol	ND	98.3	84.7	ug/L	86		SW846 8040A
	ND	99.4	83.6	ug/L	84	1.3	SW846 8040A

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRXJT1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D110423-001 MRXJT1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4,6-Trichloro-phenol	**ND**	**98.3**	**86.5**	**ug/L**	**88**		**SW846 8040A**
	ND	**99.4**	**85.6**	**ug/L**	**86**	**1.1**	**SW846 8040A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	92	(54 - 139)
	86	(54 - 139)
2-Fluorophenol	79	(34 - 121)
	81	(34 - 121)

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: B2KFJ3

GC Semivolatiles

Lot-Sample #...: F2D050425-001 **Work Order #...:** MRTE21AC **Matrix.....:** WATER
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2101077
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 N	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	94	(56 - 136)
Decachlorobiphenyl	93	(74 - 127)

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFF9

GC Semivolatiles

Lot-Sample #...: F2D050425-002 **Work Order #...:** MRTFA1AC **Matrix.....:** WATER
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2101077
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 N	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	103	(56 - 136)
Decachlorobiphenyl	87	(74 - 127)

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFD5

GC Semivolatiles

Lot-Sample #...: F2D050425-003 **Work Order #...:** MRTFE1AC **Matrix.....:** WATER
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/10/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2101077
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 N	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	95	(56 - 136)
Decachlorobiphenyl	86	(74 - 127)

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRXRJ1AA **Matrix.....:** WATER
MB Lot-Sample #: F2D100000-077

Prep Date.....: 04/10/12
Analysis Date..: 04/17/12 **Prep Batch #...:** 2101077
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	90	(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 #...: SL1263 **Work Order #...:** MRXRJ1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D100000-077
Prep Date.....: 04/10/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2101077
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aldrin	**0.500**	**0.417**	**ug/L**	**83**	**SW846 8081A**
alpha-BHC	**0.500**	**0.436**	**ug/L**	**87**	**SW846 8081A**
beta-BHC	**0.500**	**0.411**	**ug/L**	**82**	**SW846 8081A**
delta-BHC	**0.500**	**0.617**	**ug/L**	**123**	**SW846 8081A**
gamma-BHC (Lindane)	**0.500**	**0.429**	**ug/L**	**86**	**SW846 8081A**
4,4'-DDD	**0.500**	**0.431**	**ug/L**	**86**	**SW846 8081A**
4,4'-DDE	**0.500**	**0.419**	**ug/L**	**84**	**SW846 8081A**
4,4'-DDT	**0.500**	**0.417**	**ug/L**	**83**	**SW846 8081A**
Dieldrin	**0.500**	**0.414**	**ug/L**	**83**	**SW846 8081A**
Endosulfan I	**0.500**	**0.351**	**ug/L**	**70**	**SW846 8081A**
Endosulfan II	**0.500**	**0.372**	**ug/L**	**74**	**SW846 8081A**
Endosulfan sulfate	**0.500**	**0.418**	**ug/L**	**84**	**SW846 8081A**
Endrin	**0.500**	**0.434**	**ug/L**	**87**	**SW846 8081A**
Endrin aldehyde	**0.500**	**0.448**	**ug/L**	**90**	**SW846 8081A**
Heptachlor	**0.500**	**0.504**	**ug/L**	**101**	**SW846 8081A**
Heptachlor epoxide	**0.500**	**0.421**	**ug/L**	**84**	**SW846 8081A**
Methoxychlor	**0.500**	**0.412**	**ug/L**	**82**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(66 - 127)
Decachlorobiphenyl	75 *	(76 - 120)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1263 Work Order #...: MRTE21AG-MS Matrix.....: WATER
MS Lot-Sample #: F2D050425-001 MRTE21AH-MSD
Date Sampled...: 04/03/12 Date Received..: 04/05/12
Prep Date.....: 04/10/12 Analysis Date..: 04/17/12
Prep Batch #...: 2101077
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aldrin	ND	0.967	0.968	ug/L	100		SW846 8081A
	ND	0.938	1.01	ug/L	107	3.8	SW846 8081A
alpha-BHC	ND	0.967	0.983	ug/L	102		SW846 8081A
	ND	0.938	1.05	ug/L	112	6.5	SW846 8081A
beta-BHC	ND	0.967	0.935	ug/L	97		SW846 8081A
	ND	0.938	0.984	ug/L	105	5.1	SW846 8081A
delta-BHC	ND	0.967	1.68	ug/L	174		SW846 8081A
		Qualifiers: N					
	ND	0.938	1.67	ug/L	178	0.77	SW846 8081A
		Qualifiers: N					
gamma-BHC (Lindane)	ND	0.967	0.972	ug/L	101		SW846 8081A
	ND	0.938	1.04	ug/L	111	6.7	SW846 8081A
4,4'-DDD	ND	0.967	1.01	ug/L	104		SW846 8081A
	ND	0.938	1.05	ug/L	112	3.8	SW846 8081A
4,4'-DDE	ND	0.967	1.00	ug/L	104		SW846 8081A
	ND	0.938	1.02	ug/L	108	1.2	SW846 8081A
4,4'-DDT	ND	0.967	0.969	ug/L	100		SW846 8081A
	ND	0.938	1.01	ug/L	107	3.9	SW846 8081A
Dieldrin	ND	0.967	0.967	ug/L	100		SW846 8081A
	ND	0.938	0.997	ug/L	106	3.0	SW846 8081A
Endosulfan I	ND	0.967	0.815	ug/L	84		SW846 8081A
	ND	0.938	0.859	ug/L	92	5.2	SW846 8081A
Endosulfan II	ND	0.967	0.839	ug/L	87		SW846 8081A
	ND	0.938	0.880	ug/L	94	4.8	SW846 8081A
Endosulfan sulfate	ND	0.967	0.984	ug/L	102		SW846 8081A
	ND	0.938	1.00	ug/L	107	1.7	SW846 8081A
Endrin	ND	0.967	1.05	ug/L	109		SW846 8081A
	ND	0.938	1.08	ug/L	115	3.0	SW846 8081A
Endrin aldehyde	ND	0.967	1.04	ug/L	108		SW846 8081A
	ND	0.938	1.07	ug/L	114	2.3	SW846 8081A
Heptachlor	ND	0.967	1.09	ug/L	113		SW846 8081A
	ND	0.938	1.12	ug/L	119	2.3	SW846 8081A
Heptachlor epoxide	ND	0.967	0.972	ug/L	101		SW846 8081A
	ND	0.938	1.01	ug/L	108	4.0	SW846 8081A
Methoxychlor	ND	0.967	0.938	ug/L	97		SW846 8081A
	ND	0.938	0.947	ug/L	101	0.95	SW846 8081A

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1263 **Work Order #...:** MRTE21AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D050425-001 MRTE21AH-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(56 - 136)
	102	(56 - 136)
Decachlorobiphenyl	95	(74 - 127)
	99	(74 - 127)

NOTE(S):

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

Bold print denotes control parameters

N Spiked analyte recovery is outside stated control limits.

PAHs

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFJ3

HPLC

Lot-Sample #...: F2D050425-001 **Work Order #...:** MRTE21AD **Matrix.....:** WATER
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2097038
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	**0.026 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	83	(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: B2KFF9

HPLC

Lot-Sample #...: F2D050425-002 **Work Order #...:** MRTFA1AD **Matrix.....:** WATER
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2097038
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	**0.033 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	79	(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: B2KFD5

HPLC

Lot-Sample #...: F2D050425-003 **Work Order #...:** MRTFE1AD **Matrix.....:** WATER
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2097038
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	**0.027 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	81	(60 - 98)

NOTE(S):

J Estimated result. Result is less than RL.

S Positive analyte detection appears questionable during spectral confirmation.

METHOD BLANK REPORT

HPLC

Client Lot #...: SL1263 **Work Order #...:** MRT4H1AA **Matrix.....:** WATER
MB Lot-Sample #: F2D060000-038

Prep Date.....: 04/06/12
Analysis Date..: 04/17/12 **Prep Batch #...:** 2097038
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	79	(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 #...: SL1263 **Work Order #...:** MRT4H1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D060000-038
Prep Date.....: 04/06/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2097038
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	**20.0**	**15.0**	**ug/L**	**75**	**SW846 8310**
Acenaphthylene	**40.0**	**29.7**	**ug/L**	**74**	**SW846 8310**
Anthracene	**2.00**	**1.55**	**ug/L**	**78**	**SW846 8310**
Benzo(a)anthracene	**2.00**	**1.66**	**ug/L**	**83**	**SW846 8310**
Benzo(b)fluoranthene	**4.00**	**3.33**	**ug/L**	**83**	**SW846 8310**
Benzo(k)fluoranthene	**2.00**	**1.67**	**ug/L**	**83**	**SW846 8310**
Benzo(ghi)perylene	**4.00**	**3.34**	**ug/L**	**83**	**SW846 8310**
Benzo(a)pyrene	**2.00**	**1.67**	**ug/L**	**83**	**SW846 8310**
Chrysene	**2.00**	**1.66**	**ug/L**	**83**	**SW846 8310**
Dibenz(a,h)anthracene	**4.00**	**3.27**	**ug/L**	**82**	**SW846 8310**
Fluoranthene	**4.00**	**3.36**	**ug/L**	**84**	**SW846 8310**
Fluorene	**4.00**	**3.06**	**ug/L**	**77**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**2.00**	**1.69**	**ug/L**	**84**	**SW846 8310**
Naphthalene	**20.0**	**14.4**	**ug/L**	**72**	**SW846 8310**
Phenanthrene	**2.00**	**1.57**	**ug/L**	**79**	**SW846 8310**
Pyrene	**2.00**	**1.68**	**ug/L**	**84**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	82	(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 #...: SL1263 **Work Order #...:** MRTFA1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D050425-002 MRTFA1AH-MSD
Date Sampled...: 04/03/12 **Date Received..:** 04/05/12
Prep Date.....: 04/06/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2097038
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	19.0	14.8	ug/L	78		SW846 8310
	ND	19.1	14.7	ug/L	77	1.2	SW846 8310
Acenaphthylene	ND	37.9	29.7	ug/L	78		SW846 8310
	ND	38.2	29.3	ug/L	77	1.4	SW846 8310
Anthracene	0.033	1.90	1.55	ug/L	80		SW846 8310
	0.033	1.91	1.56	ug/L	80	0.06	SW846 8310
Benzo(a)anthracene	ND	1.90	1.69	ug/L	89		SW846 8310
	ND	1.91	1.66	ug/L	87	1.7	SW846 8310
Benzo(b)fluoranthene	ND	3.79	3.37	ug/L	89		SW846 8310
	ND	3.82	3.30	ug/L	87	2.0	SW846 8310
Benzo(k)fluoranthene	ND	1.90	1.67	ug/L	88		SW846 8310
	ND	1.91	1.64	ug/L	86	1.9	SW846 8310
Benzo(ghi)perylene	ND	3.79	3.36	ug/L	89		SW846 8310
	ND	3.82	3.28	ug/L	86	2.4	SW846 8310
Benzo(a)pyrene	ND	1.90	1.68	ug/L	89		SW846 8310
	ND	1.91	1.66	ug/L	87	1.6	SW846 8310
Chrysene	ND	1.90	1.68	ug/L	89		SW846 8310
	ND	1.91	1.65	ug/L	86	2.1	SW846 8310
Dibenz(a,h)anthracene	ND	3.79	3.31	ug/L	87		SW846 8310
	ND	3.82	3.22	ug/L	84	3.0	SW846 8310
Fluoranthene	ND	3.79	3.30	ug/L	87		SW846 8310
	ND	3.82	3.29	ug/L	86	0.36	SW846 8310
Fluorene	ND	3.79	3.02	ug/L	80		SW846 8310
	ND	3.82	2.99	ug/L	78	0.83	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	1.90	1.70	ug/L	90		SW846 8310
	ND	1.91	1.66	ug/L	87	2.2	SW846 8310
Naphthalene	ND	19.0	14.1	ug/L	74		SW846 8310
	ND	19.1	13.6	ug/L	71	3.2	SW846 8310
Phenanthrene	ND	1.90	1.55	ug/L	82		SW846 8310
	ND	1.91	1.55	ug/L	81	0.12	SW846 8310
Pyrene	ND	1.90	1.66	ug/L	87		SW846 8310
	ND	1.91	1.65	ug/L	87	0.24	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	86	(60 - 98)
	83	(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: B2JYC6

DISSOLVED Metals

Lot-Sample #...: F2D050424-001 **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/05/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2096089						
Silver	**0.067 B,C**	**2.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTEQ1AP**
		Dilution Factor: 1		MDL.....: 0.040		
Aluminum	ND	30.0	ug/L	SW846 6020	04/05-04/18/12	MRTEQ1AE
		Dilution Factor: 1		MDL.....: 12.9		
Arsenic	**7.7 B**	**10.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTEQ1AG**
		Dilution Factor: 1		MDL.....: 0.95		
Barium	**62.5**	**2.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTEQ1AH**
		Dilution Factor: 1		MDL.....: 0.20		
Beryllium	ND	0.50	ug/L	SW846 6020	04/05-04/18/12	MRTEQ1AA
		Dilution Factor: 1		MDL.....: 0.35		
Boron	**48.9 B,C**	**50.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTEQ1AC**
		Dilution Factor: 1		MDL.....: 10.0		
Cadmium	ND	0.50	ug/L	SW846 6020	04/05-04/18/12	MRTEQ1AD
		Dilution Factor: 1		MDL.....: 0.10		
Cobalt	**0.43 B**	**2.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTEQ1AJ**
		Dilution Factor: 1		MDL.....: 0.22		
Chromium	**5.6 B**	**10.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTEQ1AT**
		Dilution Factor: 1		MDL.....: 3.3		
Copper	**3.6**	**1.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTEQ1AK**
		Dilution Factor: 1		MDL.....: 0.45		
Molybdenum	**9.6**	**5.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTEQ1AM**
		Dilution Factor: 1		MDL.....: 1.0		
Lead	ND	3.0	ug/L	SW846 6020	04/05-04/18/12	MRTEQ1AL
		Dilution Factor: 1		MDL.....: 0.17		
Antimony	ND	5.0	ug/L	SW846 6020	04/05-04/18/12	MRTEQ1AF
		Dilution Factor: 1		MDL.....: 1.7		
Selenium	**1.9 B**	**5.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTEQ1AN**
		Dilution Factor: 1		MDL.....: 1.6		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JYC6

DISSOLVED Metals

Lot-Sample #...: F2D050424-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Tin	2.3 C	2.0	ug/L	SW846 6020	04/05-04/18/12	MRTEQ1AR
		Dilution Factor: 1		MDL.....: 1.0		
Thallium	1.5 B	2.0	ug/L	SW846 6020	04/05-04/18/12	MRTEQ1AQ
		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.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JYC1

TOTAL Metals

Lot-Sample #...: F2D050424-002 **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/05/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2096088						
Silver	**0.064 B,C**	**2.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTER1AQ**
		Dilution Factor: 1		MDL.....: 0.040		
Aluminum	ND	30.0	ug/L	SW846 6020	04/05-04/18/12	MRTER1AC
		Dilution Factor: 1		MDL.....: 12.9		
Arsenic	**7.5 B**	**10.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTER1AE**
		Dilution Factor: 1		MDL.....: 0.95		
Barium	**62.9**	**2.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTER1AF**
		Dilution Factor: 1		MDL.....: 0.20		
Beryllium	ND	0.50	ug/L	SW846 6020	04/05-04/18/12	MRTER1AG
		Dilution Factor: 1		MDL.....: 0.35		
Boron	**44.1 B,C**	**50.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTER1AH**
		Dilution Factor: 1		MDL.....: 10.0		
Cadmium	ND	0.50	ug/L	SW846 6020	04/05-04/18/12	MRTER1AJ
		Dilution Factor: 1		MDL.....: 0.10		
Cobalt	ND	2.0	ug/L	SW846 6020	04/05-04/18/12	MRTER1AK
		Dilution Factor: 1		MDL.....: 0.22		
Chromium	**5.5 B**	**10.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTER1AU**
		Dilution Factor: 1		MDL.....: 3.3		
Copper	3.7	**1.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTER1AL**
		Dilution Factor: 1		MDL.....: 0.45		
Molybdenum	**9.7**	**5.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTER1AN**
		Dilution Factor: 1		MDL.....: 1.0		
Lead	ND	3.0	ug/L	SW846 6020	04/05-04/18/12	MRTER1AM
		Dilution Factor: 1		MDL.....: 0.17		
Antimony	ND	5.0	ug/L	SW846 6020	04/05-04/18/12	MRTER1AD
		Dilution Factor: 1		MDL.....: 1.7		
Selenium	**1.8 B**	**5.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTER1AP**
		Dilution Factor: 1		MDL.....: 1.6		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JYC1

TOTAL Metals

Lot-Sample #...: F2D050424-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Tin	2.2	2.0	ug/L	SW846 6020	04/05-04/18/12	MRTER1AT
		Dilution Factor: 1		MDL.....: 1.0		
Thallium	1.2 B	2.0	ug/L	SW846 6020	04/05-04/18/12	MRTER1AR
		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.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JYH9

DISSOLVED Metals

Lot-Sample #...: F2D100426-001 **Matrix.....:** WATER
Date Sampled...: 04/09/12 **Date Received..:** 04/10/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2102113						
Antimony	ND	60.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQN1AA
		Dilution Factor: 1		MDL.....: 4.0		
Barium	**38.8 B**	**200**	**ug/L**	**SW846 6010B**	**04/11-04/18/12**	**MRWQN1AC**
		Dilution Factor: 1		MDL.....: 4.0		
Beryllium	ND	5.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQN1AD
		Dilution Factor: 1		MDL.....: 0.61		
Cadmium	ND	5.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQN1AE
		Dilution Factor: 1		MDL.....: 0.91		
Calcium	**41800**	**5000**	**ug/L**	**SW846 6010B**	**04/11-04/18/12**	**MRWQN1AF**
		Dilution Factor: 1		MDL.....: 106		
Chromium	**6.5 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/11-04/18/12**	**MRWQN1AG**
		Dilution Factor: 1		MDL.....: 3.1		
Cobalt	ND	50.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQN1AH
		Dilution Factor: 1		MDL.....: 4.0		
Copper	ND	25.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQN1AJ
		Dilution Factor: 1		MDL.....: 4.6		
Iron	ND	100	ug/L	SW846 6010B	04/11-04/18/12	MRWQN1AK
		Dilution Factor: 1		MDL.....: 28.2		
Magnesium	**11500**	**5000**	**ug/L**	**SW846 6010B**	**04/11-04/18/12**	**MRWQN1AL**
		Dilution Factor: 1		MDL.....: 132		
Manganese	ND	15.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQN1AM
		Dilution Factor: 1		MDL.....: 3.3		
Nickel	ND	40.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQN1AN
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	**4230 B**	**5000**	**ug/L**	**SW846 6010B**	**04/11-04/18/12**	**MRWQN1AP**
		Dilution Factor: 1		MDL.....: 1650		
Silver	ND	10.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQN1AQ
		Dilution Factor: 1		MDL.....: 6.0		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JYH9

DISSOLVED Metals

Lot-Sample #...: F2D100426-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	6960	5000	ug/L	SW846 6010B	04/11-04/18/12	**MRWQN1AR**
		Dilution Factor: 1		MDL.....: 324		
Strontium	278	50.0	ug/L	SW846 6010B	04/11-04/18/12	**MRWQN1AT**
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	12.2 B	50.0	ug/L	SW846 6010B	04/11-04/18/12	**MRWQN1AU**
		Dilution Factor: 1		MDL.....: 4.1		
Zinc	ND	20.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQN1AV
		Dilution Factor: 1		MDL.....: 7.0		

NOTE(S):

B Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JYH5

TOTAL Metals

Lot-Sample #...: F2D100426-002 **Matrix.....:** WATER
Date Sampled...: 04/09/12 **Date Received..:** 04/10/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2102114						
Antimony	ND	60.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQQ1AC
		Dilution Factor: 1		MDL.....: 4.0		
Barium	**38.9 B**	**200**	**ug/L**	**SW846 6010B**	**04/11-04/18/12**	**MRWQQ1AD**
		Dilution Factor: 1		MDL.....: 4.0		
Beryllium	ND	5.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQQ1AE
		Dilution Factor: 1		MDL.....: 0.61		
Cadmium	ND	5.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQQ1AF
		Dilution Factor: 1		MDL.....: 0.91		
Calcium	**42800**	**5000**	**ug/L**	**SW846 6010B**	**04/11-04/18/12**	**MRWQQ1AG**
		Dilution Factor: 1		MDL.....: 106		
Chromium	**7.5 B**	**10.0**	**ug/L**	**SW846 6010B**	**04/11-04/18/12**	**MRWQQ1AH**
		Dilution Factor: 1		MDL.....: 3.1		
Cobalt	ND	50.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQQ1AJ
		Dilution Factor: 1		MDL.....: 4.0		
Copper	ND	25.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQQ1AK
		Dilution Factor: 1		MDL.....: 4.6		
Iron	ND	100	ug/L	SW846 6010B	04/11-04/18/12	MRWQQ1AL
		Dilution Factor: 1		MDL.....: 28.2		
Magnesium	**11600**	**5000**	**ug/L**	**SW846 6010B**	**04/11-04/18/12**	**MRWQQ1AM**
		Dilution Factor: 1		MDL.....: 132		
Manganese	ND	15.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQQ1AN
		Dilution Factor: 1		MDL.....: 3.3		
Nickel	ND	40.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQQ1AP
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	**4270 B**	**5000**	**ug/L**	**SW846 6010B**	**04/11-04/18/12**	**MRWQQ1AQ**
		Dilution Factor: 1		MDL.....: 1650		
Silver	ND	10.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQQ1AR
		Dilution Factor: 1		MDL.....: 6.0		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JYH5

TOTAL Metals

Lot-Sample #...: F2D100426-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	6890	5000	ug/L	SW846 6010B	04/11-04/18/12	**MRWQQ1AT**
		Dilution Factor: 1		MDL.....: 324		
Strontium	273	50.0	ug/L	SW846 6010B	04/11-04/18/12	**MRWQQ1AU**
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	11.1 B	50.0	ug/L	SW846 6010B	04/11-04/18/12	**MRWQQ1AV**
		Dilution Factor: 1		MDL.....: 4.1		
Zinc	ND	20.0	ug/L	SW846 6010B	04/11-04/18/12	MRWQQ1AW
		Dilution Factor: 1		MDL.....: 7.0		

NOTE(S):

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1263 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F2D050000-088 **Prep Batch #...:** 2096088						
Aluminum	ND	30.0	ug/L	SW846 6020	04/05-04/18/12	MRTM91AA
		Dilution Factor: 1				
Antimony	ND	5.0	ug/L	SW846 6020	04/05-04/18/12	MRTM91AC
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	SW846 6020	04/05-04/18/12	MRTM91AD
		Dilution Factor: 1				
Barium	ND	2.0	ug/L	SW846 6020	04/05-04/18/12	MRTM91AE
		Dilution Factor: 1				
Beryllium	ND	0.50	ug/L	SW846 6020	04/05-04/18/12	MRTM91AF
		Dilution Factor: 1				
Boron	**10.0 B**	**50.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTM91AG**
		Dilution Factor: 1				
Cadmium	ND	0.50	ug/L	SW846 6020	04/05-04/18/12	MRTM91AH
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6020	04/05-04/18/12	MRTM91AT
		Dilution Factor: 1				
Cobalt	ND	2.0	ug/L	SW846 6020	04/05-04/18/12	MRTM91AJ
		Dilution Factor: 1				
Copper	**0.46 B**	**1.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTM91AK**
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6020	04/05-04/18/12	MRTM91AL
		Dilution Factor: 1				
Molybdenum	ND	5.0	ug/L	SW846 6020	04/05-04/18/12	MRTM91AM
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6020	04/05-04/18/12	MRTM91AN
		Dilution Factor: 1				
Silver	**0.14 B**	**2.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTM91AP**
		Dilution Factor: 1				
Thallium	ND	2.0	ug/L	SW846 6020	04/05-04/18/12	MRTM91AQ
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1263 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Tin	ND	2.0	ug/L	SW846 6020	04/05-04/18/12	MRTM91AR
		Dilution Factor: 1				

MB Lot-Sample #: F2D110000-114 **Prep Batch #...:** 2102114

Antimony	ND	60.0	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AA
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AC
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AD
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AE
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AF
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AG
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AH
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AJ
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AK
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AL
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AM
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AN
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AP
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AQ
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1263 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	ND	5000	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AR
		Dilution Factor: 1				
Strontium	ND	50.0	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AT
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AU
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/11-04/18/12	MRXL81AV
		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 #...: SL1263 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F2D050000-089 **Prep Batch #...:** 2096089						
Aluminum	ND	30.0	ug/L	SW846 6020	04/05-04/18/12	MRTNF1AE
		Dilution Factor: 1				
Antimony	ND	5.0	ug/L	SW846 6020	04/05-04/18/12	MRTNF1AF
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	SW846 6020	04/05-04/18/12	MRTNF1AG
		Dilution Factor: 1				
Barium	ND	2.0	ug/L	SW846 6020	04/05-04/18/12	MRTNF1AH
		Dilution Factor: 1				
Beryllium	ND	0.50	ug/L	SW846 6020	04/05-04/18/12	MRTNF1AA
		Dilution Factor: 1				
Boron	**16.1 B**	**50.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTNF1AC**
		Dilution Factor: 1				
Cadmium	ND	0.50	ug/L	SW846 6020	04/05-04/18/12	MRTNF1AD
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6020	04/05-04/18/12	MRTNF1AT
		Dilution Factor: 1				
Cobalt	ND	2.0	ug/L	SW846 6020	04/05-04/18/12	MRTNF1AJ
		Dilution Factor: 1				
Copper	ND	1.0	ug/L	SW846 6020	04/05-04/18/12	MRTNF1AK
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6020	04/05-04/18/12	MRTNF1AL
		Dilution Factor: 1				
Molybdenum	ND	5.0	ug/L	SW846 6020	04/05-04/18/12	MRTNF1AM
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6020	04/05-04/18/12	MRTNF1AN
		Dilution Factor: 1				
Silver	**0.12 B**	**2.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTNF1AP**
		Dilution Factor: 1				
Thallium	ND	2.0	ug/L	SW846 6020	04/05-04/18/12	MRTNF1AQ
		Dilution Factor: 1				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL1263 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Tin	**1.1 B**	**2.0**	**ug/L**	**SW846 6020**	**04/05-04/18/12**	**MRTNF1AR**
		Dilution Factor: 1				

MB Lot-Sample #: F2D110000-113 **Prep Batch #...:** 2102113

Antimony	ND	60.0	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AA
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AC
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AD
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AE
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AF
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AG
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AH
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AJ
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AK
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AL
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AM
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AN
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AP
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AQ
		Dilution Factor: 1				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL1263 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	ND	5000	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AR
		Dilution Factor: 1				
Strontium	ND	50.0	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AT
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AU
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/11-04/18/12	MRXLR1AV
		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.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1263 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F2D050000-088 **Prep Batch #...:** 2096088							
Aluminum	10000	9680	ug/L	97	SW846 6020	04/05-04/18/12	MRTM91AU
			Dilution Factor: 1				
Antimony	500	517	ug/L	103	SW846 6020	04/05-04/18/12	MRTM91AV
			Dilution Factor: 1				
Arsenic	1000	1000	ug/L	100	SW846 6020	04/05-04/18/12	MRTM91AW
			Dilution Factor: 1				
Barium	1000	963	ug/L	96	SW846 6020	04/05-04/18/12	MRTM91AX
			Dilution Factor: 1				
Beryllium	1000	1010	ug/L	101	SW846 6020	04/05-04/18/12	MRTM91A0
			Dilution Factor: 1				
Boron	1000	1090	ug/L	109	SW846 6020	04/05-04/18/12	MRTM91A1
			Dilution Factor: 1				
Cadmium	1000	976	ug/L	98	SW846 6020	04/05-04/18/12	MRTM91A2
			Dilution Factor: 1				
Cobalt	1000	1040	ug/L	104	SW846 6020	04/05-04/18/12	MRTM91A3
			Dilution Factor: 1				
Copper	1000	978	ug/L	98	SW846 6020	04/05-04/18/12	MRTM91A4
			Dilution Factor: 1				
Lead	1000	995	ug/L	100	SW846 6020	04/05-04/18/12	MRTM91A5
			Dilution Factor: 1				
Molybdenum	1000	1100	ug/L	110	SW846 6020	04/05-04/18/12	MRTM91A6
			Dilution Factor: 1				
Selenium	1000	929	ug/L	93	SW846 6020	04/05-04/18/12	MRTM91A7
			Dilution Factor: 1				
Silver	100	101	ug/L	101	SW846 6020	04/05-04/18/12	MRTM91A8
			Dilution Factor: 1				
Thallium	200	197	ug/L	99	SW846 6020	04/05-04/18/12	MRTM91A9
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1263 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Tin	1000	1020	ug/L	102	SW846 6020	04/05-04/18/12	MRTM91CA
			Dilution Factor: 1				
Chromium	1000	999	ug/L	100	SW846 6020	04/05-04/18/12	MRTM91CC
			Dilution Factor: 1				
LCS Lot-Sample#: F2D110000-114 **Prep Batch #...:** 2102114							
Antimony	500	549	ug/L	110	SW846 6010B	04/11-04/18/12	MRXL81AW
			Dilution Factor: 1				
Barium	1000	1030	ug/L	103	SW846 6010B	04/11-04/18/12	MRXL81AX
			Dilution Factor: 1				
Beryllium	1000	1030	ug/L	103	SW846 6010B	04/11-04/18/12	MRXL81A0
			Dilution Factor: 1				
Cadmium	1000	1030	ug/L	103	SW846 6010B	04/11-04/18/12	MRXL81A1
			Dilution Factor: 1				
Calcium	10000	10500	ug/L	105	SW846 6010B	04/11-04/18/12	MRXL81A2
			Dilution Factor: 1				
Chromium	1000	1060	ug/L	106	SW846 6010B	04/11-04/18/12	MRXL81A3
			Dilution Factor: 1				
Cobalt	1000	1060	ug/L	106	SW846 6010B	04/11-04/18/12	MRXL81A4
			Dilution Factor: 1				
Copper	1000	1050	ug/L	105	SW846 6010B	04/11-04/18/12	MRXL81A5
			Dilution Factor: 1				
Iron	10000	10500	ug/L	105	SW846 6010B	04/11-04/18/12	MRXL81A6
			Dilution Factor: 1				
Magnesium	10000	10200	ug/L	102	SW846 6010B	04/11-04/18/12	MRXL81A7
			Dilution Factor: 1				
Manganese	1000	1040	ug/L	104	SW846 6010B	04/11-04/18/12	MRXL81A8
			Dilution Factor: 1				
Nickel	1000	1060	ug/L	106	SW846 6010B	04/11-04/18/12	MRXL81A9
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1263 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	10000	9960	ug/L	100	SW846 6010B	04/11-04/18/12	MRXL81CA
			Dilution Factor: 1				
Silver	100	99.8	ug/L	100	SW846 6010B	04/11-04/18/12	MRXL81CC
			Dilution Factor: 1				
Sodium	10000	9990	ug/L	100	SW846 6010B	04/11-04/18/12	MRXL81CD
			Dilution Factor: 1				
Strontium	1000	1040	ug/L	104	SW846 6010B	04/11-04/18/12	MRXL81CE
			Dilution Factor: 1				
Vanadium	1000	1010	ug/L	101	SW846 6010B	04/11-04/18/12	MRXL81CF
			Dilution Factor: 1				
Zinc	1000	1040	ug/L	104	SW846 6010B	04/11-04/18/12	MRXL81CG
			Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1263 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F2D050000-089 **Prep Batch #...:** 2096089							
Beryllium	1000	1020	ug/L	102	SW846 6020	04/05-04/18/12	MRTNF1AU
			Dilution Factor: 1				
Boron	1000	1100	ug/L	110	SW846 6020	04/05-04/18/12	MRTNF1AV
			Dilution Factor: 1				
Cadmium	1000	984	ug/L	98	SW846 6020	04/05-04/18/12	MRTNF1AW
			Dilution Factor: 1				
Aluminum	10000	9710	ug/L	97	SW846 6020	04/05-04/18/12	MRTNF1AX
			Dilution Factor: 1				
Antimony	500	523	ug/L	105	SW846 6020	04/05-04/18/12	MRTNF1A0
			Dilution Factor: 1				
Arsenic	1000	985	ug/L	99	SW846 6020	04/05-04/18/12	MRTNF1A1
			Dilution Factor: 1				
Barium	1000	975	ug/L	97	SW846 6020	04/05-04/18/12	MRTNF1A2
			Dilution Factor: 1				
Cobalt	1000	1020	ug/L	102	SW846 6020	04/05-04/18/12	MRTNF1A3
			Dilution Factor: 1				
Copper	1000	970	ug/L	97	SW846 6020	04/05-04/18/12	MRTNF1A4
			Dilution Factor: 1				
Lead	1000	1000	ug/L	100	SW846 6020	04/05-04/18/12	MRTNF1A5
			Dilution Factor: 1				
Molybdenum	1000	1110	ug/L	111	SW846 6020	04/05-04/18/12	MRTNF1A6
			Dilution Factor: 1				
Selenium	1000	938	ug/L	94	SW846 6020	04/05-04/18/12	MRTNF1A7
			Dilution Factor: 1				
Silver	100	101	ug/L	101	SW846 6020	04/05-04/18/12	MRTNF1A8
			Dilution Factor: 1				
Thallium	200	201	ug/L	101	SW846 6020	04/05-04/18/12	MRTNF1A9
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1263 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Tin	1000	1040	ug/L	104	SW846 6020	04/05-04/18/12	MRTNF1CA
			Dilution Factor: 1				
Chromium	1000	993	ug/L	99	SW846 6020	04/05-04/18/12	MRTNF1CC
			Dilution Factor: 1				
LCS Lot-Sample#: F2D110000-113 **Prep Batch #...:** 2102113							
Antimony	500	563	ug/L	113	SW846 6010B	04/11-04/18/12	MRXLR1AW
			Dilution Factor: 1				
Barium	1000	1060	ug/L	106	SW846 6010B	04/11-04/18/12	MRXLR1AX
			Dilution Factor: 1				
Beryllium	1000	1070	ug/L	107	SW846 6010B	04/11-04/18/12	MRXLR1A0
			Dilution Factor: 1				
Cadmium	1000	1070	ug/L	107	SW846 6010B	04/11-04/18/12	MRXLR1A1
			Dilution Factor: 1				
Calcium	10000	10900	ug/L	109	SW846 6010B	04/11-04/18/12	MRXLR1A2
			Dilution Factor: 1				
Chromium	1000	1100	ug/L	110	SW846 6010B	04/11-04/18/12	MRXLR1A3
			Dilution Factor: 1				
Cobalt	1000	1100	ug/L	110	SW846 6010B	04/11-04/18/12	MRXLR1A4
			Dilution Factor: 1				
Copper	1000	1090	ug/L	109	SW846 6010B	04/11-04/18/12	MRXLR1A5
			Dilution Factor: 1				
Iron	10000	10800	ug/L	108	SW846 6010B	04/11-04/18/12	MRXLR1A6
			Dilution Factor: 1				
Magnesium	10000	10500	ug/L	105	SW846 6010B	04/11-04/18/12	MRXLR1A7
			Dilution Factor: 1				
Manganese	1000	1060	ug/L	106	SW846 6010B	04/11-04/18/12	MRXLR1A8
			Dilution Factor: 1				
Nickel	1000	1090	ug/L	109	SW846 6010B	04/11-04/18/12	MRXLR1A9
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1263 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	10000	10300	ug/L	103	SW846 6010B	04/11-04/18/12	MRXLR1CA
			Dilution Factor: 1				
Silver	100	102	ug/L	102	SW846 6010B	04/11-04/18/12	MRXLR1CC
			Dilution Factor: 1				
Sodium	10000	10400	ug/L	104	SW846 6010B	04/11-04/18/12	MRXLR1CD
			Dilution Factor: 1				
Strontium	1000	1060	ug/L	106	SW846 6010B	04/11-04/18/12	MRXLR1CE
			Dilution Factor: 1				
Vanadium	1000	1040	ug/L	104	SW846 6010B	04/11-04/18/12	MRXLR1CF
			Dilution Factor: 1				
Zinc	1000	1080	ug/L	108	SW846 6010B	04/11-04/18/12	MRXLR1CG
			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 #...: SL1263 **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/05/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F2D050424-002 **Prep Batch #...:** 2096088									
Aluminum									
	ND	10000	9650	ug/L	96		SW846 6020	04/05-04/18/12	MRTER1A4
	ND	10000	9440	ug/L	94	2.2	SW846 6020	04/05-04/18/12	MRTER1A5
			Dilution Factor: 1						
Antimony									
	ND	500	513	ug/L	103		SW846 6020	04/05-04/18/12	MRTER1A6
	ND	500	514	ug/L	103	0.10	SW846 6020	04/05-04/18/12	MRTER1A7
			Dilution Factor: 1						
Arsenic									
	7.5	1000	972	ug/L	96		SW846 6020	04/05-04/18/12	MRTER1A8
	7.5	1000	945	ug/L	94	2.8	SW846 6020	04/05-04/18/12	MRTER1A9
			Dilution Factor: 1						
Barium									
	62.9	1000	1030	ug/L	97		SW846 6020	04/05-04/18/12	MRTER1CA
	62.9	1000	1020	ug/L	96	0.79	SW846 6020	04/05-04/18/12	MRTER1CC
			Dilution Factor: 1						
Beryllium									
	ND	1000	987	ug/L	99		SW846 6020	04/05-04/18/12	MRTER1CD
	ND	1000	993	ug/L	99	0.58	SW846 6020	04/05-04/18/12	MRTER1CE
			Dilution Factor: 1						
Boron									
	44.1	1000	1130	ug/L	109		SW846 6020	04/05-04/18/12	MRTER1CF
	44.1	1000	1150	ug/L	110	1.3	SW846 6020	04/05-04/18/12	MRTER1CG
			Dilution Factor: 1						
Cadmium									
	ND	1000	961	ug/L	96		SW846 6020	04/05-04/18/12	MRTER1CH
	ND	1000	957	ug/L	96	0.33	SW846 6020	04/05-04/18/12	MRTER1CJ
			Dilution Factor: 1						
Chromium									
	5.5	1000	993	ug/L	99		SW846 6020	04/05-04/18/12	MRTER1C4
	5.5	1000	981	ug/L	98	1.2	SW846 6020	04/05-04/18/12	MRTER1C5
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1263 **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/05/12

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	04/05-04/18/12	MRTER1CK
	ND	1000	959	ug/L	96	2.3	SW846 6020	04/05-04/18/12	MRTER1CL
			Dilution Factor: 1						
Copper									
	3.7	1000	915	ug/L	91		SW846 6020	04/05-04/18/12	MRTER1CM
	3.7	1000	907	ug/L	90	0.88	SW846 6020	04/05-04/18/12	MRTER1CN
			Dilution Factor: 1						
Lead									
	ND	1000	1000	ug/L	100		SW846 6020	04/05-04/18/12	MRTER1CP
	ND	1000	999	ug/L	100	0.34	SW846 6020	04/05-04/18/12	MRTER1CQ
			Dilution Factor: 1						
Molybdenum									
	9.7	1000	1080	ug/L	107		SW846 6020	04/05-04/18/12	MRTER1CR
	9.7	1000	1080	ug/L	107	0.27	SW846 6020	04/05-04/18/12	MRTER1CT
			Dilution Factor: 1						
Selenium									
	1.8	1000	908	ug/L	91		SW846 6020	04/05-04/18/12	MRTER1CU
	1.8	1000	889	ug/L	89	2.1	SW846 6020	04/05-04/18/12	MRTER1CV
			Dilution Factor: 1						
Silver									
	0.064	100	98.1	ug/L	98		SW846 6020	04/05-04/18/12	MRTER1CW
	0.064	100	97.9	ug/L	98	0.16	SW846 6020	04/05-04/18/12	MRTER1CX
			Dilution Factor: 1						
Thallium									
	1.2	200	206	ug/L	103		SW846 6020	04/05-04/18/12	MRTER1C0
	1.2	200	206	ug/L	102	0.13	SW846 6020	04/05-04/18/12	MRTER1C1
			Dilution Factor: 1						
Tin									
	2.2	1000	1040	ug/L	104		SW846 6020	04/05-04/18/12	MRTER1C2
	2.2	1000	1050	ug/L	104	0.66	SW846 6020	04/05-04/18/12	MRTER1C3
			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 #...: SL1263 **Matrix.....:** WATER
Date Sampled...: 04/09/12 **Date Received..:** 04/10/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F2D100426-002 **Prep Batch #...:** 2102114									
Antimony									
	ND	500	541	ug/L	108		SW846 6010B	04/11-04/18/12	MRWQQ1A4
	ND	500	548	ug/L	110	1.2	SW846 6010B	04/11-04/18/12	MRWQQ1A5
			Dilution Factor: 1						
Barium									
	38.9	1000	1070	ug/L	103		SW846 6010B	04/11-04/18/12	MRWQQ1A6
	38.9	1000	1080	ug/L	104	0.37	SW846 6010B	04/11-04/18/12	MRWQQ1A7
			Dilution Factor: 1						
Beryllium									
	ND	1000	1040	ug/L	104		SW846 6010B	04/11-04/18/12	MRWQQ1A8
	ND	1000	1050	ug/L	105	1.0	SW846 6010B	04/11-04/18/12	MRWQQ1A9
			Dilution Factor: 1						
Cadmium									
	ND	1000	1030	ug/L	103		SW846 6010B	04/11-04/18/12	MRWQQ1CA
	ND	1000	1040	ug/L	104	0.48	SW846 6010B	04/11-04/18/12	MRWQQ1CC
			Dilution Factor: 1						
Calcium									
	42800	10000	52000	ug/L	92		SW846 6010B	04/11-04/18/12	MRWQQ1CD
	42800	10000	52000	ug/L	91	0.17	SW846 6010B	04/11-04/18/12	MRWQQ1CE
			Dilution Factor: 1						
Chromium									
	7.5	1000	1060	ug/L	105		SW846 6010B	04/11-04/18/12	MRWQQ1CF
	7.5	1000	1050	ug/L	104	0.95	SW846 6010B	04/11-04/18/12	MRWQQ1CG
			Dilution Factor: 1						
Cobalt									
	ND	1000	1040	ug/L	104		SW846 6010B	04/11-04/18/12	MRWQQ1CH
	ND	1000	1040	ug/L	104	0.57	SW846 6010B	04/11-04/18/12	MRWQQ1CJ
			Dilution Factor: 1						
Copper									
	ND	1000	1040	ug/L	104		SW846 6010B	04/11-04/18/12	MRWQQ1CK
	ND	1000	1050	ug/L	105	0.86	SW846 6010B	04/11-04/18/12	MRWQQ1CL
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1263 **Matrix.....:** WATER
Date Sampled...: 04/09/12 **Date Received..:** 04/10/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron									
	ND	10000	10500	ug/L	105		SW846 6010B	04/11-04/18/12	MRWQQ1CM
	ND	10000	10600	ug/L	106	0.19	SW846 6010B	04/11-04/18/12	MRWQQ1CN
			Dilution Factor: 1						
Magnesium									
	11600	10000	21700	ug/L	101		SW846 6010B	04/11-04/18/12	MRWQQ1CP
	11600	10000	21600	ug/L	100	0.27	SW846 6010B	04/11-04/18/12	MRWQQ1CQ
			Dilution Factor: 1						
Manganese									
	ND	1000	1040	ug/L	104		SW846 6010B	04/11-04/18/12	MRWQQ1CR
	ND	1000	1050	ug/L	105	0.57	SW846 6010B	04/11-04/18/12	MRWQQ1CT
			Dilution Factor: 1						
Nickel									
	ND	1000	1050	ug/L	105		SW846 6010B	04/11-04/18/12	MRWQQ1CU
	ND	1000	1050	ug/L	105	0.38	SW846 6010B	04/11-04/18/12	MRWQQ1CV
			Dilution Factor: 1						
Potassium									
	4270	10000	14400	ug/L	101		SW846 6010B	04/11-04/18/12	MRWQQ1CW
	4270	10000	14300	ug/L	100	0.27	SW846 6010B	04/11-04/18/12	MRWQQ1CX
			Dilution Factor: 1						
Silver									
	ND	100	98.8	ug/L	99		SW846 6010B	04/11-04/18/12	MRWQQ1C0
	ND	100	98.4	ug/L	98	0.40	SW846 6010B	04/11-04/18/12	MRWQQ1C1
			Dilution Factor: 1						
Sodium									
	6890	10000	17000	ug/L	101		SW846 6010B	04/11-04/18/12	MRWQQ1C2
	6890	10000	17100	ug/L	102	0.58	SW846 6010B	04/11-04/18/12	MRWQQ1C3
			Dilution Factor: 1						
Strontium									
	273	1000	1320	ug/L	104		SW846 6010B	04/11-04/18/12	MRWQQ1C4
	273	1000	1330	ug/L	106	0.98	SW846 6010B	04/11-04/18/12	MRWQQ1C5
			Dilution Factor: 1						
Vanadium									
	11.1	1000	1030	ug/L	102		SW846 6010B	04/11-04/18/12	MRWQQ1C6
	11.1	1000	1040	ug/L	102	0.19	SW846 6010B	04/11-04/18/12	MRWQQ1C7
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1263 **Matrix.....:** WATER
Date Sampled...: 04/09/12 **Date Received..:** 04/10/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	ND	1000	1040	ug/L	104		SW846 6010B	04/11-04/18/12	MRWQQ1C8
	ND	1000	1040	ug/L	104	0.48	SW846 6010B	04/11-04/18/12	MRWQQ1C9

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 #...: SL1263 **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/05/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F2D050424-001 **Prep Batch #...:** 2096089									
Aluminum									
	ND	10000	9470	ug/L	95		SW846 6020	04/05-04/18/12	MRTEQ1A2
	ND	10000	9530	ug/L	95	0.65	SW846 6020	04/05-04/18/12	MRTEQ1A3
			Dilution Factor: 1						
Antimony									
	ND	500	505	ug/L	101		SW846 6020	04/05-04/18/12	MRTEQ1A4
	ND	500	526	ug/L	105	4.2	SW846 6020	04/05-04/18/12	MRTEQ1A5
			Dilution Factor: 1						
Arsenic									
	7.7	1000	957	ug/L	95		SW846 6020	04/05-04/18/12	MRTEQ1A6
	7.7	1000	980	ug/L	97	2.3	SW846 6020	04/05-04/18/12	MRTEQ1A7
			Dilution Factor: 1						
Barium									
	62.5	1000	1040	ug/L	97		SW846 6020	04/05-04/18/12	MRTEQ1A8
	62.5	1000	1070	ug/L	100	2.8	SW846 6020	04/05-04/18/12	MRTEQ1A9
			Dilution Factor: 1						
Beryllium									
	ND	1000	998	ug/L	100		SW846 6020	04/05-04/18/12	MRTEQ1AU
	ND	1000	1010	ug/L	101	1.7	SW846 6020	04/05-04/18/12	MRTEQ1AV
			Dilution Factor: 1						
Boron									
	48.9	1000	1130	ug/L	108		SW846 6020	04/05-04/18/12	MRTEQ1AW
	48.9	1000	1150	ug/L	110	1.6	SW846 6020	04/05-04/18/12	MRTEQ1AX
			Dilution Factor: 1						
Cadmium									
	ND	1000	952	ug/L	95		SW846 6020	04/05-04/18/12	MRTEQ1A0
	ND	1000	980	ug/L	98	2.8	SW846 6020	04/05-04/18/12	MRTEQ1A1
			Dilution Factor: 1						
Chromium									
	5.6	1000	992	ug/L	99		SW846 6020	04/05-04/18/12	MRTEQ1CU
	5.6	1000	985	ug/L	98	0.79	SW846 6020	04/05-04/18/12	MRTEQ1CV
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1263 **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/05/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt									
	0.43	1000	973	ug/L	97		SW846 6020	04/05-04/18/12	MRTEQ1CA
	0.43	1000	991	ug/L	99	1.9	SW846 6020	04/05-04/18/12	MRTEQ1CC
			Dilution Factor: 1						
Copper									
	3.6	1000	913	ug/L	91		SW846 6020	04/05-04/18/12	MRTEQ1CD
	3.6	1000	927	ug/L	92	1.5	SW846 6020	04/05-04/18/12	MRTEQ1CE
			Dilution Factor: 1						
Lead									
	ND	1000	971	ug/L	97		SW846 6020	04/05-04/18/12	MRTEQ1CF
	ND	1000	1010	ug/L	101	4.0	SW846 6020	04/05-04/18/12	MRTEQ1CG
			Dilution Factor: 1						
Molybdenum									
	9.6	1000	1070	ug/L	106		SW846 6020	04/05-04/18/12	MRTEQ1CH
	9.6	1000	1090	ug/L	108	2.1	SW846 6020	04/05-04/18/12	MRTEQ1CJ
			Dilution Factor: 1						
Selenium									
	1.9	1000	924	ug/L	92		SW846 6020	04/05-04/18/12	MRTEQ1CK
	1.9	1000	901	ug/L	90	2.6	SW846 6020	04/05-04/18/12	MRTEQ1CL
			Dilution Factor: 1						
Silver									
	0.067	100	96.0	ug/L	96		SW846 6020	04/05-04/18/12	MRTEQ1CM
	0.067	100	99.1	ug/L	99	3.2	SW846 6020	04/05-04/18/12	MRTEQ1CN
			Dilution Factor: 1						
Thallium									
	1.5	200	207	ug/L	103		SW846 6020	04/05-04/18/12	MRTEQ1CP
	1.5	200	211	ug/L	105	2.1	SW846 6020	04/05-04/18/12	MRTEQ1CQ
			Dilution Factor: 1						
Tin									
	2.3	1000	1020	ug/L	102		SW846 6020	04/05-04/18/12	MRTEQ1CR
	2.3	1000	1050	ug/L	105	2.8	SW846 6020	04/05-04/18/12	MRTEQ1CT
			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 #...: SL1263 **Matrix.....:** WATER
Date Sampled...: 04/09/12 **Date Received..:** 04/10/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F2D100426-001 **Prep Batch #...:** 2102113									
Antimony									
	ND	500	569	ug/L	114		SW846 6010B	04/11-04/18/12	MRWQN1AW
	ND	500	568	ug/L	114	0.15	SW846 6010B	04/11-04/18/12	MRWQN1AX
			Dilution Factor: 1						
Barium									
	38.8	1000	1110	ug/L	108		SW846 6010B	04/11-04/18/12	MRWQN1A0
	38.8	1000	1120	ug/L	108	0.09	SW846 6010B	04/11-04/18/12	MRWQN1A1
			Dilution Factor: 1						
Beryllium									
	ND	1000	1080	ug/L	108		SW846 6010B	04/11-04/18/12	MRWQN1A2
	ND	1000	1090	ug/L	109	0.55	SW846 6010B	04/11-04/18/12	MRWQN1A3
			Dilution Factor: 1						
Cadmium									
	ND	1000	1050	ug/L	105		SW846 6010B	04/11-04/18/12	MRWQN1A4
	ND	1000	1060	ug/L	106	0.94	SW846 6010B	04/11-04/18/12	MRWQN1A5
			Dilution Factor: 1						
Calcium									
	41800	10000	54300	ug/L	125		SW846 6010B	04/11-04/18/12	MRWQN1A6
	41800	10000	54100	ug/L	123	0.36	SW846 6010B	04/11-04/18/12	MRWQN1A7
			Dilution Factor: 1						
Chromium									
	6.5	1000	1090	ug/L	108		SW846 6010B	04/11-04/18/12	MRWQN1A8
	6.5	1000	1100	ug/L	109	0.82	SW846 6010B	04/11-04/18/12	MRWQN1A9
			Dilution Factor: 1						
Cobalt									
	ND	1000	1060	ug/L	106		SW846 6010B	04/11-04/18/12	MRWQN1CA
	ND	1000	1070	ug/L	107	0.56	SW846 6010B	04/11-04/18/12	MRWQN1CC
			Dilution Factor: 1						
Copper									
	ND	1000	1060	ug/L	106		SW846 6010B	04/11-04/18/12	MRWQN1CD
	ND	1000	1070	ug/L	107	1.3	SW846 6010B	04/11-04/18/12	MRWQN1CE
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1263 **Matrix.....:** WATER
Date Sampled...: 04/09/12 **Date Received..:** 04/10/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron									
	ND	10000	10900	ug/L	109		SW846 6010B	04/11-04/18/12	MRWQN1CF
	ND	10000	10900	ug/L	109	0.18	SW846 6010B	04/11-04/18/12	MRWQN1CG
			Dilution Factor: 1						
Magnesium									
	11500	10000	22200	ug/L	107		SW846 6010B	04/11-04/18/12	MRWQN1CH
	11500	10000	22200	ug/L	108	0.36	SW846 6010B	04/11-04/18/12	MRWQN1CJ
			Dilution Factor: 1						
Manganese									
	ND	1000	1050	ug/L	105		SW846 6010B	04/11-04/18/12	MRWQN1CK
	ND	1000	1060	ug/L	106	1.0	SW846 6010B	04/11-04/18/12	MRWQN1CL
			Dilution Factor: 1						
Nickel									
	ND	1000	1070	ug/L	107		SW846 6010B	04/11-04/18/12	MRWQN1CM
	ND	1000	1080	ug/L	108	0.65	SW846 6010B	04/11-04/18/12	MRWQN1CN
			Dilution Factor: 1						
Potassium									
	4230	10000	14900	ug/L	106		SW846 6010B	04/11-04/18/12	MRWQN1CP
	4230	10000	14900	ug/L	107	0.06	SW846 6010B	04/11-04/18/12	MRWQN1CQ
			Dilution Factor: 1						
Silver									
	ND	100	101	ug/L	101		SW846 6010B	04/11-04/18/12	MRWQN1CR
	ND	100	103	ug/L	103	1.7	SW846 6010B	04/11-04/18/12	MRWQN1CT
			Dilution Factor: 1						
Sodium									
	6960	10000	17500	ug/L	106		SW846 6010B	04/11-04/18/12	MRWQN1CU
	6960	10000	17600	ug/L	106	0.51	SW846 6010B	04/11-04/18/12	MRWQN1CV
			Dilution Factor: 1						
Strontium									
	278	1000	1330	ug/L	105		SW846 6010B	04/11-04/18/12	MRWQN1CW
	278	1000	1350	ug/L	107	1.2	SW846 6010B	04/11-04/18/12	MRWQN1CX
			Dilution Factor: 1						
Vanadium									
	12.2	1000	1050	ug/L	104		SW846 6010B	04/11-04/18/12	MRWQN1C0
	12.2	1000	1060	ug/L	105	1.0	SW846 6010B	04/11-04/18/12	MRWQN1C1
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1263 **Matrix.....:** WATER
Date Sampled...: 04/09/12 **Date Received..:** 04/10/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	ND	1000	1070	ug/L	107		SW846 6010B	04/11-04/18/12	MRWQN1C2
	ND	1000	1080	ug/L	108	0.37	SW846 6010B	04/11-04/18/12	MRWQN1C3

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: B2JYC1

General Chemistry

Lot-Sample #...: F2D050424-002 **Work Order #...:** MRTER **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/05/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	3.6	0.20	mg/L	MCAWW 300.0A	04/05/12	2096061
		Dilution Factor: 1		MDL.....: 0.020		
Fluoride	0.38	0.10	mg/L	MCAWW 300.0A	04/05/12	2096062
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	1.7 D	0.40	mg/L	MCAWW 300.0A	04/05/12	2096065
		Dilution Factor: 20		MDL.....: 0.17		
Nitrogen, Nitrite	ND	0.020	mg/L	MCAWW 300.0A	04/05/12	2096064
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	34.6 D	10.0	mg/L	MCAWW 300.0A	04/05/12	2096063
		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: B2K5P8

General Chemistry

Lot-Sample #...: F2D060437-001 **Work Order #...:** MRVDG **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide	ND	1.0	mg/L	SW846 9030	04/11/12	2102104

Dilution Factor: 1 MDL.....: 0.083

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K5K9

General Chemistry

Lot-Sample #...: F2D060437-002 **Work Order #...:** MRVDH **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide	ND	1.0	mg/L	SW846 9030	04/11/12	2102104

Dilution Factor: 1 MDL.....: 0.083

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K5L0

General Chemistry

Lot-Sample #...: F2D060437-003 **Work Order #...:** MRVDJ **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide	ND	1.0	mg/L	SW846 9030	04/11/12	2102104

Dilution Factor: 1 MDL.....: 0.083

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2JYH5

General Chemistry

Lot-Sample #...: F2D100426-002 **Work Order #...:** MRWQQ **Matrix.....:** WATER
Date Sampled...: 04/09/12 **Date Received..:** 04/10/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**16.2 D**	**4.0**	**mg/L**	**MCAWW 300.0A**	**04/10/12**	**2101067**
		Dilution Factor: 20		MDL.....: 0.40		
Fluoride	**0.11**	**0.10**	**mg/L**	**MCAWW 300.0A**	**04/10/12**	**2101068**
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	**2.9 D**	**0.40**	**mg/L**	**MCAWW 300.0A**	**04/10/12**	**2101071**
		Dilution Factor: 20		MDL.....: 0.17		
Nitrogen, Nitrite	ND	0.020	mg/L	MCAWW 300.0A	04/10/12	2101070
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	**39.7 D**	**10.0**	**mg/L**	**MCAWW 300.0A**	**04/10/12**	**2101069**
		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 #...: SL1263 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: MRXV51AA		MB Lot-Sample #:	F2D050000-061	
	ND	0.20	mg/L	MCAWW 300.0A	04/05/12	2096061
		Dilution Factor: 1				
Chloride		Work Order #: MR0EV1AA		MB Lot-Sample #:	F2D100000-067	
	ND	0.20	mg/L	MCAWW 300.0A	04/10/12	2101067
		Dilution Factor: 1				
Fluoride		Work Order #: MRXV61AA		MB Lot-Sample #:	F2D050000-062	
	ND	0.10	mg/L	MCAWW 300.0A	04/05/12	2096062
		Dilution Factor: 1				
Fluoride		Work Order #: MR0EW1AA		MB Lot-Sample #:	F2D100000-068	
	ND	0.10	mg/L	MCAWW 300.0A	04/10/12	2101068
		Dilution Factor: 1				
Nitrogen, Nitrate		Work Order #: MRXV91AA		MB Lot-Sample #:	F2D050000-065	
	ND	0.020	mg/L	MCAWW 300.0A	04/05/12	2096065
		Dilution Factor: 1				
Nitrogen, Nitrate		Work Order #: MR0E11AA		MB Lot-Sample #:	F2D100000-071	
	ND	0.020	mg/L	MCAWW 300.0A	04/10/12	2101071
		Dilution Factor: 1				
Nitrogen, Nitrite		Work Order #: MRXV81AA		MB Lot-Sample #:	F2D050000-064	
	ND	0.020	mg/L	MCAWW 300.0A	04/05/12	2096064
		Dilution Factor: 1				
Nitrogen, Nitrite		Work Order #: MR0E01AA		MB Lot-Sample #:	F2D100000-070	
	ND	0.020	mg/L	MCAWW 300.0A	04/10/12	2101070
		Dilution Factor: 1				
Sulfate		Work Order #: MRXV71AA		MB Lot-Sample #:	F2D050000-063	
	ND	0.50	mg/L	MCAWW 300.0A	04/05/12	2096063
		Dilution Factor: 1				
Sulfate		Work Order #: MR0EX1AA		MB Lot-Sample #:	F2D100000-069	
	ND	0.50	mg/L	MCAWW 300.0A	04/10/12	2101069
		Dilution Factor: 1				
Total Sulfide		Work Order #: MRXHT1AA		MB Lot-Sample #:	F2D110000-104	
	ND	1.0	mg/L	SW846 9030	04/11/12	2102104
		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 #...: SL1263 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #: MRXV51AC		LCS Lot-Sample#: F2D050000-061		
	2.00	1.94	mg/L	97	MCAWW 300.0A	04/05/12	2096061
			Dilution Factor: 1				
Chloride			Work Order #: MR0EV1AC		LCS Lot-Sample#: F2D100000-067		
	2.00	1.94	mg/L	97	MCAWW 300.0A	04/10/12	2101067
			Dilution Factor: 1				
Fluoride			Work Order #: MRXV61AC		LCS Lot-Sample#: F2D050000-062		
	1.00	0.946	mg/L	95	MCAWW 300.0A	04/05/12	2096062
			Dilution Factor: 1				
Fluoride			Work Order #: MR0EW1AC		LCS Lot-Sample#: F2D100000-068		
	1.00	0.955	mg/L	95	MCAWW 300.0A	04/10/12	2101068
			Dilution Factor: 1				
Nitrogen, Nitrate			Work Order #: MRXV91AC		LCS Lot-Sample#: F2D050000-065		
	0.400	0.409	mg/L	102	MCAWW 300.0A	04/05/12	2096065
			Dilution Factor: 1				
Nitrogen, Nitrate			Work Order #: MR0E11AC		LCS Lot-Sample#: F2D100000-071		
	0.400	0.390	mg/L	97	MCAWW 300.0A	04/10/12	2101071
			Dilution Factor: 1				
Nitrogen, Nitrite			Work Order #: MRXV81AC		LCS Lot-Sample#: F2D050000-064		
	0.160	0.156	mg/L	98	MCAWW 300.0A	04/05/12	2096064
			Dilution Factor: 1				
Nitrogen, Nitrite			Work Order #: MR0E01AC		LCS Lot-Sample#: F2D100000-070		
	0.160	0.170	mg/L	106	MCAWW 300.0A	04/10/12	2101070
			Dilution Factor: 1				
Sulfate			Work Order #: MRXV71AC		LCS Lot-Sample#: F2D050000-063		
	8.00	7.67	mg/L	96	MCAWW 300.0A	04/05/12	2096063
			Dilution Factor: 1				
Sulfate			Work Order #: MR0EX1AC		LCS Lot-Sample#: F2D100000-069		
	8.00	7.74	mg/L	97	MCAWW 300.0A	04/10/12	2101069
			Dilution Factor: 1				
Total Sulfide			Work Order #: MRXHT1AC		LCS Lot-Sample#: F2D110000-104		
	10.0	9.46	mg/L	95	SW846 9030	04/11/12	2102104
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL1263 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL1263 **Matrix.....:** WATER
Date Sampled...: 04/04/12 **Date Received..:** 04/05/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	PREPARATION-METHOD	ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #...: MRTER1C6			MS Lot-Sample #: F2D050424-002		
	3.6	2.00	5.71	mg/L	105	MCAWW 300.0A	04/05/12	2096061
			Dilution Factor: 1					
Chloride			Work Order #...: MRWQQ1DA			MS Lot-Sample #: F2D100426-002		
	16.2	40.0	57.4 D	mg/L	103	MCAWW 300.0A	04/10/12	2101067
			Dilution Factor: 20					
Fluoride			Work Order #...: MRTER1C7			MS Lot-Sample #: F2D050424-002		
	0.38	2.00	2.48	mg/L	105	MCAWW 300.0A	04/05/12	2096062
			Dilution Factor: 1					
Fluoride			Work Order #...: MRWQQ1DD			MS Lot-Sample #: F2D100426-002		
	0.11	2.00	2.19	mg/L	104	MCAWW 300.0A	04/10/12	2101068
			Dilution Factor: 1					
Nitrogen, Nitrate			Work Order #...: MRTER1A3			MS Lot-Sample #: F2D050424-002		
	1.7	8.00	9.31 D	mg/L	95	MCAWW 300.0A	04/05/12	2096065
			Dilution Factor: 20					
Nitrogen, Nitrate			Work Order #...: MRWQQ1DK			MS Lot-Sample #: F2D100426-002		
	2.9	8.00	10.3 D	mg/L	93	MCAWW 300.0A	04/10/12	2101071
			Dilution Factor: 20					
Nitrogen, Nitrite			Work Order #...: MRTER1A2			MS Lot-Sample #: F2D050424-002		
	ND	0.100	0.0943	mg/L	94	MCAWW 300.0A	04/05/12	2096064
			Dilution Factor: 1					
Nitrogen, Nitrite			Work Order #...: MRWQQ1DH			MS Lot-Sample #: F2D100426-002		
	ND	0.100	0.0992	mg/L	99	MCAWW 300.0A	04/10/12	2101070
			Dilution Factor: 1					
Sulfate			Work Order #...: MRTER1C8			MS Lot-Sample #: F2D050424-002		
	34.6	80.0	113 D	mg/L	98	MCAWW 300.0A	04/05/12	2096063
			Dilution Factor: 20					
Sulfate			Work Order #...: MRWQQ1DF			MS Lot-Sample #: F2D100426-002		
	39.7	80.0	116 D	mg/L	95	MCAWW 300.0A	04/10/12	2101069
			Dilution Factor: 20					
Total Sulfide			Work Order #...: MRVDH1AG			MS Lot-Sample #: F2D060437-002		
	ND	10.0	9.26	mg/L	93	SW846 9030	04/11/12	2102104
			Dilution Factor: 1					

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MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL1263 Matrix.....: WATER
Date Sampled...: 04/04/12 Date Received..: 04/05/12

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 #...: F2D050422 **Work Order #...:** MRTER-SMP MRTER-DUP **Matrix.....:** WATER

Date Sampled...: 04/04/12 **Date Received..:** 04/05/12

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #: F2D050424-002		
	3.6	3.5	mg/L	1.8	(0-20)	MCAWW 300.0A	04/05/12	2096061
		Dilution Factor: 1						
Fluoride						SD Lot-Sample #: F2D050424-002		
	0.38	0.40	mg/L	4.2	(0-20)	MCAWW 300.0A	04/05/12	2096062
		Dilution Factor: 1						
Sulfate						SD Lot-Sample #: F2D050424-002		
	34.6 D	31.5 D	mg/L	9.5	(0-20)	MCAWW 300.0A	04/05/12	2096063
		Dilution Factor: 20						
Nitrogen, Nitrite						SD Lot-Sample #: F2D050424-002		
	ND	ND	mg/L	0	(0-20)	MCAWW 300.0A	04/05/12	2096064
		Dilution Factor: 1						
Nitrogen, Nitrate						SD Lot-Sample #: F2D050424-002		
	1.7 D	1.6 D	mg/L	5.0	(0-20)	MCAWW 300.0A	04/05/12	2096065
		Dilution Factor: 20						

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 #...: F2D050422 **Work Order #...:** MRWQQ-SMP MRWQQ-DUP **Matrix.....:** WATER

Date Sampled...: 04/09/12 **Date Received..:** 04/10/12

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #: F2D100426-002		
	16.2 D	16.3 D	mg/L	0.60	(0-20)	MCAWW 300.0A	04/10/12	2101067
		Dilution Factor: 20						
Fluoride						SD Lot-Sample #: F2D100426-002		
	0.11	0.12	mg/L	5.1	(0-20)	MCAWW 300.0A	04/10/12	2101068
		Dilution Factor: 1						
Sulfate						SD Lot-Sample #: F2D100426-002		
	39.7 D	39.9 D	mg/L	0.42	(0-20)	MCAWW 300.0A	04/10/12	2101069
		Dilution Factor: 20						
Nitrogen, Nitrite						SD Lot-Sample #: F2D100426-002		
	ND	ND	mg/L	0	(0-20)	MCAWW 300.0A	04/10/12	2101070
		Dilution Factor: 1						
Nitrogen, Nitrate						SD Lot-Sample #: F2D100426-002		
	2.9 D	2.6 D	mg/L	8.4	(0-20)	MCAWW 300.0A	04/10/12	2101071
		Dilution Factor: 20						

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 #...: F2D050422 **Work Order #...:** MRVDH-SMP **Matrix.....:** WATER
MRVDH-DUP
Date Sampled...: 04/04/12 **Date Received..:** 04/06/12

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total	Sulfide					SD Lot-Sample #: F2D060437-002		
	ND	ND	mg/L	0	(0-20)	SW846 9030	04/11/12	2102104

Dilution Factor: 1