TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

REVISED

I12-021

Lot #: F2F130418
SDG #: SL1274

Scot Fitzgerald

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

TESTAMERICA LABORATORIES, INC.

"for"

Jayna Awalt
Project Manager

July 26, 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
MS B3-60
Richland, Washington 99352
July 20, 2012
Attention: Scot Fitzgerald

TestAmerica Laboratories, Inc.

SDG	: SL1274
Number of Samples	: nine samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: June 15, 2012

II. Introduction

Between June 13, 2012 and June 15, 2012, nine water samples were received by TestAmerica - St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and CUR forms for documentation of any variations on receipt conditions and temperature. Upon receipt, the samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative. This report has been revised to include corrected items (sample identification and Cyanide RPD value information) contained within the inserted P&D report.

The following SAFs are associated with this SDG: I12-021, I12-025, and W12-006

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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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CH2M Hill Plateau Remediation Company
July 16, 2012
SDG: SL1274

TestAmerica Laboratories, Inc.

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: 2178025

Acetone was detected in the Method Blank at a concentration above the MDL but below the RL. This analyte has been qualified accordingly with a "B" flag in the associated samples.
Affected Samples:
F2F150422 (1): B2L677
F2F150423 (3): B2KWL6

The Dibromofluoromethane, 1,2-Dichloroethane -d4 and 4-Bromofluorobenzene surrogate recoveries in the Method Blank are outside acceptance limits. Samples, associated with this method blank, except those noted below, demonstrated acceptable surrogate recoveries indicating the surrogate excursion is isolated to the method blank and not indicative of the batch.
Affected Samples:
F2F150422 (1): B2L677
F2F150423 (3): B2KWL6

The surrogate recovery for 1,2-Dichloroethane- d4 is outside the upper QC limit, indicating a potential positive bias. There were no target analytes associated with this surrogate detected above the reporting limit in the samples; therefore the sample data was not adversely affected by this excursion.
Affected Samples:
F2F150423 (3): B2KWL6

The MSD recovery for Acetone is outside the established QC limits. The RPD value is within method acceptance criteria indicating possible matrix interference. Method performance is demonstrated by acceptable LCS recovery. This analyte has been flagged accordingly with a "T" flag in the associated samples.
Affected Samples:
F2F150422 (1): B2L677
F2F150423 (3): B2KWL6

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

The MS/MSD RPD values for Acetonitrile, 2-Butanone, Isobutanol, Tetrahydrofuran, Methyl methacrylate, and 4- Methyl-2-pentanone are not within method acceptance criteria. MS/MSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix.
Affected Samples:
F2F150422 (1): B2L677
F2F150423 (3): B2KWL6

The opening CCV (ZCCV9877) recovery was outside the upper QC limit (greater than 20% D) for Dichlorodifluoromethane (29.3 %) indicating a potential high bias for this analyte in the samples associated with this CCV. Dichlorodifluoromethane was not detected above the reporting limit in the associated samples.
Affected Samples:
F2F150422 (1): B2L677
F2F150423 (3): B2KWL6

Semivolatiles

Batch: 2172103

To perform an MS/MSD on a sample for organic extractables, the laboratory requires 3 liters of sample. Due to receiving less than the required three liters, the laboratory performed the MS/MSD extraction using half volume.
Affected Samples:
F2F150423 (3): B2KWL6

The CCV recoveries were outside the upper QC limit (greater than 20% D) for Famphur, a,a-Dimethyl-phenethylamine, 2,6-Dichlorophenol, and Kepone indicating a potential high bias for these analytes in the samples associated with this CCV. These analytes were not detected above the reporting limit or were not target analytes in the associated samples.
Affected Samples:
F2F150423 (3): B2KWL6

PAHs

Batch: 2172102

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:
F2F150423 (3): B2KWL6

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THE LEADER IN ENVIRONMENTAL TESTING

CH2M Hill Plateau Remediation Company
July 16, 2012
SDG: SL1274

TestAmerica Laboratories, Inc.

GC Phenols

Batch: 2170084

During concentration sample F2F130419-001MSD and the Method Blank were errantly exchanged with hexane. The other samples in this batch were not exchanged with hexane and followed the standard procedure for concentration. Because this occurred within the 24-hour window from the start of extraction, a new method blank was extracted to replace the corrupted blank. However, sample F2F130419-001 was fully consumed during extraction.
Affected Samples:
F2F130419 (1): B2LPK0

The Method Blank Surrogate recoveries are outside acceptance limits. Samples, associated with this method blank, demonstrated acceptable surrogate recoveries indicating the surrogate excursion is isolated to the method blank and not indicative of the batch. Samples will not be re-extracted due to being outside 2X holding time and insufficient sample volume to perform re-extraction.
Affected Samples:
F2F130419 (1): B2LPK0

The MS/MSD RPD values are not within method acceptance criteria for several analytes. MS/MSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix.
Affected Samples:
F2F130419 (1): B2LPK0

The MSD Surrogate recovery is outside acceptance limits. MSD spike recoveries are within QC limits demonstrating acceptable sample extraction and instrument performance.
Affected Samples:
F2F130419 (1): B2LPK0

Pesticides

Batch: 2171094

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:
F2F150423 (3): B2KWL6

The Method Blank DCB Surrogate recovery is outside acceptance limits. Samples, associated with this Method Blank, demonstrated acceptable Surrogate recoveries indicating the surrogate excursion is isolated to the Method Blank and not indicative of the batch.
Affected Samples:
F2F150423 (3): B2KWL6

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THE LEADER IN ENVIRONMENTAL TESTING

The MSD recovery and RPD for delta-BHC is outside the upper QC limit, indicating a potential positive bias for that 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 sample.
Affected Samples:
F2F150423 (3): B2KWL6

The opening CCV recovery was outside the lower QC limit (greater than 20% D) for 4,4'-DDT and Methoxychlor indicating a potential low bias for those analytes in the samples associated with this CCV. This excursion was on the confirmation column only. Samples did not need confirmation for these analytes. No data was reported from this column.
Affected Samples:
F2F150423 (3): B2KWL6

PCBs

Batch: 2171044

To perform an MS/MSD on a sample for organic extractables, the laboratory requires 3 liters of sample. Due to receiving less than the required three liters, the laboratory performed the MS/MSD extraction using half volume.
Affected Samples:
F2F150423 (2): B2KWL7

8015M TPH-Gasoline

Batch: 2173071

According to the COC, sample was presumed to be preserved to a pH < 2. Due to the potential loss of volatile constituents, VOA vials are not checked for pH preservation until the time of analysis. Sample pH was not less than 2. Sample results were within acceptance limits. Sample Issue Resolution SDR12-301 accepted the proposed resolution to report the sample results.
Affected Samples:
F2F150423 (2): B2KWL7

The MS/MSD Surrogate recoveries are outside acceptance limits. MS/MSD spike recoveries are within QC limits demonstrating acceptable sample extraction and instrument performance.
Affected Samples:
F2F150423 (2): B2KWL7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CH2M Hill Plateau Remediation Company
July 16, 2012
SDG: SL1274

TestAmerica Laboratories, Inc.

8015M Alcohols

Batch: 2172097

The MSD recovery was outside lower QC limits for Methanol. This anomaly was an isolated event and not indicative of the batch as the LCS and MS recoveries were acceptable. This excursion of low methanol recovery caused the RPD to be outside stated control limits as well.
Affected Samples:
F2F150423 (2): B2KWL7

TPH Diesel

Batch: 2172100

To perform an MS/MSD on a sample for organic extractables, the laboratory requires 3 liters of sample. Due to receiving less than the required three liters, the laboratory performed the MS/MSD extraction using half volume.
Affected Samples:
F2F150423 (2): B2KWL7

ICP Metals

Batch: 2167069

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 results are above the instrument's calibration range. MS/MSD results are reported as estimated values.
Affected Samples:
F2F130418 (3): B2KHL7
F2F130418 (4): B2KHM1

Batch: 2171105 Dissolved

The samples were analyzed at a dilution for Calcium and Strontium, due to high concentrations of target and interfering analytes. The reporting limit has been adjusted for the dilution. The analytes have been qualified accordingly with a "D" flag in the associated samples.
Affected Samples:
F2F150423 (1): B2KWM1
F2F150423 (2): B2KWL7

Strontium was detected in the Method Blank at a concentration above the MDL but below the RL. The analyte concentration in the sample is greater than 5 times that detected in the Method Blank, therefore no qualifier is required.
Affected Samples:
F2F150423 (1): B2KWM1
F2F150423 (2): B2KWL7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

The MS/MSD recovery for Calcium is outside the established QC limits. The said analyte concentration in the original sample is greater than four times the amount spiked, making percent recovery information ineffective. Method performance is demonstrated by acceptable LCS recovery. This analyte has been qualified accordingly with an "N" flag in the associated samples.
Affected Samples:
F2F150423 (1): B2KWM1
F2F150423 (2): B2KWL7

ICPMS Metals

Batch: 2171106

Due to LDR failures, the LDR has been lowered for Beryllium (200ppb). The LCS and the MS/MSDs were above the LDR. The LCS and MS/MSDs were within acceptable QC limits. The MS/MSDs are reported as estimated values.
Affected Samples:
F2F150423 (1): B2KWM1
F2F150423 (2): B2KWL7

The ICV recovery was outside the upper QC limit (greater than 110%) for Cobalt and Copper indicating a potential high bias for these analytes in the samples associated with this ICV. These analytes were not detected above the reporting limit in the associated samples.
Affected Samples:
F2F150423 (1): B2KWM1
F2F150423 (2): B2KWL7

Batch: 2167071 Dissolved

The CCV bracketing the initial QC (ICSA, ICSAB, and LLC) was outside acceptable QC limits for boron indicating a potential bias. The initial QC all passed within acceptable limits. The samples were bracketed by acceptable CCV/CCBs.
Affected Samples:
F2F130418 (1): B2KHW6
F2F130418 (2): B2KHW2

Due to LDR failures, the LDR has been lowered for Beryllium (200ppb). The LCS and the MS/MSDs were above the LDR. The LCS and MS/MSDs were within acceptable QC limits. The MS/MSDs are reported as estimated values.
Affected Samples:
F2F130418 (1): B2KHW6
F2F130418 (2): B2KHW2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CH2M Hill Plateau Remediation Company
July 16, 2012
SDG: SL1274

TestAmerica Laboratories, Inc.

The Internal Standard was outside QC limits in the CCV and/or the CCB. All analytes were within acceptable limits, showing that there was no bias.
Affected Samples:
F2F130418 (1): B2KWH6
F2F130418 (2): B2KHW2

Ion Chromatography

Batches: 2165053, 2165055, 2165057

The samples were analyzed at a dilution for Chloride, Nitrate, and Sulfate due to high concentrations of target analytes. The reporting limit has been adjusted only for those targets reported from the dilution. These analytes are qualified with a "D" flag in the associated samples.
Affected Samples:
F2F130418 (2): B2KHW2
F2F130418 (3): B2KHL7

The Anion Matrix Spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor matrix spike recovery for Chloride in batch 2165053 and Sulfate in batch 2165055 is attributed to matrix interference. The analytes are qualified with an "N" flag in the associated samples.
Affected Samples:
F2F130418 (2): B2KHW2
F2F130418 (3): B2KHL7

Batches: 2167076, 2167079

The associated sample was analyzed at dilution, due to a high concentration of the target analyte, for Chloride in batch 2167076. The reporting limit has been adjusted only for the target reported from the dilution. This analytes has been qualified accordingly with a "D" flag in the associated sample.
Affected Samples:
F2F150423 (2): B2KWL7

The Anion Matrix Spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor matrix spike recovery for Nitrite in batch 2167079 is attributed to matrix interference. This analyte has been qualified accordingly with an "N" flag in the associated sample.
Affected Samples:
F2F150423 (2): B2KWL7

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THE LEADER IN ENVIRONMENTAL TESTING

CH2M Hill Plateau Remediation Company
July 16, 2012
SDG: SL1274

TestAmerica Laboratories, Inc.

Batches: 2170045, 2170046

The associated sample was analyzed at dilution, due to high concentrations of the target analytes, for Sulfate in batch 2170045 and Nitrate in batch 2170046. The reporting limit has been adjusted only for those targets reported from the dilution. These analytes have been qualified accordingly with a "D" flag in the associated sample.
Affected Samples:
F2F150423 (2): B2KWL7

The Anion Matrix Spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor Matrix Spike recovery for Sulfate in batch 2170045 is attributed to matrix interference. This analyte has been qualified accordingly with an "N" flag in the associated sample.
Affected Samples:
F2F150423 (2): B2KWL7

The associated sample was collected on 6/14/12 and received and analyzed by IC on 6/15/12. However, due to high CCV failure for Nitrate in the 6/15/12 run, the sample was re-analyzed out of 2x hold for Nitrate on 6/18/12 in batch 2170046. The out of hold Nitrate result is comparable with the non-reported in-hold Nitrate result. Sample Issue Resolution SDR12-302 accepted the proposed resolution to report the result from the out-of-hold analysis.
Affected Samples:
F2F150423 (2): B2KWL7

There were no observations or nonconformances for the following methods: Mercury, Total Cyanide, Glycols

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

Reviewed and approved:

Chenise Y. Lambert-Sykes
St. Louis Project Manager

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SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-301
REV NUM	0
DATE INITIATED	7/16/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	I12-025
OPERABLE UNIT(S)	100-NR-2
PROJECT(S)	CERC12
SAMPLE EVENT TITLE(S)	CERC12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	1
SAMPLE NUMBERS	B2KWL7
SAMPLE MATRIX	WATER
COLLECTION DATE	6/14/2012 - 6/14/2012
SDG NUM	SL1274

ISSUE BACKGROUND

CLASS	Field Sampling Issue
TYPE	Incorrect Sample Preservation
DESCRIPTION	For 8015 TPH Gasoline Range analysis on sample B2KWL7, the sample was presumed to be preserved to a pH of <2. Due to the potential loss of volatile constituents, VOA vials are not checked for pH preservation until the time of analysis. Sample pH was not less than 2. Sample results are within acceptance limits.

DISPOSITION

DESCRIPTION	PROPOSED DISPOSITION: TASL PROPOSES TO REPORT SAMPLE RESULTS AND NARRATE THE EXCURSION IN THE CASE NARRATIVE.
JUSTIFICATION	ACCEPTED DISPOSITION: Accept proposed resolution. SUBMITTED BY: Chenise Lambert-Sykes DATE: 7/16/12 ACCEPTED BY: Karen Waters Husted/CHPRC DATE: 7/16/12

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-302
REV NUM	0
DATE INITIATED	7/16/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	I12-025
OPERABLE UNIT(S)	100-NR-2
PROJECT(S)	CERC12
SAMPLE EVENT TITLE(S)	CERC12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	1
SAMPLE NUMBERS	B2KWL7
SAMPLE MATRIX	WATER
COLLECTION DATE	6/14/2012 - 6/14/2012
SDG NUM	SL1274

ISSUE BACKGROUND

CLASS	Laboratory Issue
TYPE	Analysis Holding Time Exceeded
DESCRIPTION	For Method 300.0 Nitrate analysis on sample B2KWL7, the sample was initially analyzed within hold. Due to CCV failure for Nitrate, the sample was reanalyzed outside of 2 times hold. The reanalysis result confirms the original in hold result.

DISPOSITION

DESCRIPTION	PROPOSED DISPOSITION: TASL PROPOSES TO REPORT SAMPLE RESULTS FROM THE REANALYSIS AND NARRATE THE EXCURSION IN THE CASE NARRATIVE.
JUSTIFICATION	ACCEPTED DISPOSITION: Accept proposed resolution SUBMITTED BY: Chenise Lambert-Sykes/TASL DATE: 7/16/12 ACCEPTED BY: Karen Waters-Husted/CHPRC DATE: 7/17/12

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

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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

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-330
REV NUM	0
DATE INITIATED	8/7/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	W12-006
OPERABLE UNIT(S)	NONE
PROJECT(S)	RCRA12
SAMPLE EVENT TITLE(S)	RCRA12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	1
SAMPLE NUMBERS	B2LPK0
SAMPLE MATRIX	WATER
COLLECTION DATE	6/11/2012 - 6/11/2012
SDG NUM	SL1274

ISSUE BACKGROUND

CLASS	Chain of Custody Issue (Field)
TYPE	Broken Chain of Custody
DESCRIPTION	Chain of custody # W12-006-196, sample number B2LPK0, chain of custody broken: sample not relinquished to or released from interim storage prior to shipment offsite.

DISPOSITION

DESCRIPTION	Proposed Disposition: Document broken chain-of-custody and close SIR
JUSTIFICATION	Accepted Disposition: Accept Proposed Disposition

Submitted by: Michael A. Baechler / CHPRC Date: 8/7/2012
Accepted by: J. G. Douglas / CHPRC Date: 8/7/2012

METHODS SUMMARY

SL1274

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Chloride	MCAWW 300.0A	MCAWW 300.0A
Extractable Petroleum Hydrocarbons	SW846 8015 MOD	SW846 3510
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Glycols (8015B)	SW846 8015B	
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	
ICP-MS (6020)	SW846 6020	
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
Nitrate as NO3	MCAWW 300.0A	
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Nonhalogenated Organics Using GC/FID	SW846 8015B	SW846 8015B
Organochlorine Pesticides	SW846 8081A	SW846 3520C
Phenols by GC	SW846 8040A	SW846 3520
Polynuclear Aromatic Hydrocarbons by HPLC	SW846 8310	SW846 3510
PCBs by SW-846 8082	SW846 8082	SW846 3510C
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3510C
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Total Cyanide	SW846 9012	SW846 9012
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B
Volatile Petroleum Hydrocarbons	SW846 8015 MOD	SW846 5030

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

SL1274 : F2F130418

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MT4NP	001	B2KHW6	06/12/12	09:27
MT4NQ	002	B2KHW2	06/12/12	09:27
MT4NR	003	B2KHL7	06/12/12	11:00
MT4NT	004	B2KHM1	06/12/12	11:00

NOTE(S):

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

(Continued on next page)

SAMPLE SUMMARY

SL1274 : F2F130419

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MT4NV	001	B2LPK0	06/11/12	10:33

NOTE(S):

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

(Continued on next page)

SAMPLE SUMMARY

SL1274 : F2F150422

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MT5R3	001	B2L677	06/14/12	10:06

NOTE(S):

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

(Continued on next page)

SAMPLE SUMMARY

SL1274 : F2F150423

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MT5TC	001	B2KWM1	06/14/12	10:06
MT5TD	002	B2KWL7	06/14/12	10:06
MT5TP	003	B2KWL6	06/14/12	10:06

NOTE(S):

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

CH2MHill Plateau Remediation Company

SL1274

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I12-025-008**

Page 1 of 2

SDG 1274

Collector L.D. Wall CHPRC	**Contact/Requester** Karen Waters-Husted	**Telephone No.** 376-4650	
SAF No. I12-025	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code** 300071ES20	
Project Title 100NR2, JUNE 2012	**Logbook No.** HNF-N-506 50/21	**Ice Chest No.** GWS-113	
Shipped To (Lab) TestAmerica St. Louis	**Method of Shipment** Commercial Carrier	**Bill of Lading/Air Bill No.** 7985 1204 3785	
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 ☐

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KWM1	Y	W	6.14.12	1006	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2KWM1	Y	W			1x500-mL G/P	6020_METALS_ICPMS: LIST-3 (17) *	6 Months	HNO3 to pH <2
B2KWM1	Y	W			1x500-mL G	7470_HG_CVAA: Mercury (1)	28 Days	HNO3 to pH <2
B2KWL7	N	W			1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2KWL7	N	W			1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2KWL7	N	W			1x500-mL G/P	6020_METALS_ICPMS: LIST-3 (17)	6 Months	HNO3 to pH <2
B2KWL7	N	W			1x500-mL G	7470_HG_CVAA: Mercury (1)	28 Days	HNO3 to pH <2
B2KWL7	N	W			1x250-mL G/P	9012_CYANIDE: Cyanide (1)	14 Days	NaOH to pH >=12/Cool~4C
B2KWL7	N	W			1x20-mL P	Activity Scan	6 Months	None
B2KWL7	N	W			3x1-L aG	TPH-Diesel Range - WTPH-D	14/40 Days	HCl to pH <2/Cool~4C
B2KWL7	N	W			4x40-mL aGs*	TPH-Gasoline Range - WTPH-G	14 Days	HCl to pH <2/Cool~4C
B2KWL7	N	W			3x1-L aG	8082_PCB_GC: List-1 (7)	None	Cool~4C
B2KWL7	N	W			3x40-mL Gs*	Alcohols, Glycols, & Ketones - 8015M *	14/40 Days	Cool~4C
B2KWL6	N	W	↓	↓	2x1-L aG	8081_PEST_GC: List-1 (19)	14/40 Days	Cool~4C

Relinquished By L.D. Wall CHPRC	Print L.D. Wall	Sign	Date/Time 1400 JUN 14 2012	Received By FEDEX	Print Sign Date/Time JUN 14 2012
Relinquished By FEDEX			Date/Time	Received By NICHOLAS OWENS	Date/Time 4/15/12 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

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A-6004-842 (REV 2)

AUGUST 10, 2012 REVISION 3

Page 2 of 71

CH2MHill Plateau Remediation Company SH274	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-025-008
		Page 2 of 2

SDG 124

Collector	L.D. Wall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
S.A.F No.	I12-025	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100NR2, JUNE 2012	Logbook No.	HNF-N-506 50 21	Ice Chest No.	GWS-113
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7985 1204 3785
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.
FY11 and FY12 samples cannot be in the same SDG.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KWL6	N	W	6.14.12	1006	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2KWL6	N	W	↓	↓	3x1-L aG	8270_SVOA_GCMS_IX: List-1 (123)	7/40 Days	Cool~4C
B2KWL6	N	W	↓	↓	2x1-L aG	8310_SVOA_HPLC	14/40 Days	Cool~4C

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
L.D. Wall CHPRC	L.D. Wall	JUN 14 2012 1400	FEDEX		JUN 14 2012
FED EX			Nicholas Owens		6/15/12 0930

Matrix *

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

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

PRINTED ON 4/19/2012

A-6004-842 (REV 2)

23 of 171

AUGUST 10, 2012

REVISION 3

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Tracking no.: 798512043785 Select time format: 12H | 24H E-mail notifications

Delivered

Initiated → Picked up → In transit → Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date ⓘ Jun 14, 2012	EARTH CITY, MO
Delivery date ⓘ Jun 15, 2012 9:30 AM	Signature Proof of Delivery ⓘ

Shipment Options Help

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

Shipment Facts Help

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	117.0 lbs/53.1 kg	Reference	GWS-113

Shipment Travel History Help

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Jun 15, 2012 9:30 AM	Delivered	EARTH CITY, MO	
Jun 15, 2012 7:12 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Jun 15, 2012 7:04 AM	At local FedEx facility	EARTH CITY, MO	
Jun 15, 2012 5:47 AM	At destination sort facility	BERKELEY, MO	
Jun 15, 2012 4:59 AM	Departed FedEx location	MEMPHIS, TN	
Jun 15, 2012 12:42 AM	Arrived at FedEx location	MEMPHIS, TN	
Jun 14, 2012 5:13 PM	Left FedEx origin facility	PASCO, WA	
Jun 14, 2012 4:06 PM	Picked up	PASCO, WA	
Jun 14, 2012 2:50 PM	Shipment information sent to FedEx		

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 0 5 4

Lot #(s): F2F150422 / 423

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: I12-021-1132 / I12-025-0088

Initiated By: NVO Date: 6/15/12 Time: 0930

Shipping Information

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

Shipping # (s):*		Sample Temperature (s):**	
1. 7985 1204 3785	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: MS Date: 06-19-12

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

CH2MHill Plateau Remediation Company SH274 CWR 054	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-021-432 Page 1 of 1

SDG 22471

Collector	L.D. Wall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, APRIL 2012	Logbook No.	HNF-N-506 50121	Ice Chest No.	GWS-113
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7985 1204 3785
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 ☐

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L677	N	W	6.14.12	1006	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2L677	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. Wall CHPRC	L.D. Wall	L.D. Wall	JUN 14 2012 1400	FEDEX			JUN 14 2012
FED EX				NICHOLAS OWENS			6/15/12 0930

Matrix *

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

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

PRINTED ON 4/16/2012

A-6004-842 (REV 2)

AUGUST 10, 2012

REVISION 3

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Tracking no.: 798512043785 Select time format: 12H | 24H E-mail notifications

Delivered

Initiated Picked up In transit Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Jun 14, 2012	EARTH CITY, MO
Delivery date Jun 15, 2012 9:30 AM	Signature Proof of Delivery

Shipment Options Help

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

Shipment Facts Help

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	117.0 lbs/53.1 kg	Reference	GWS-113

Shipment Travel History Help

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Jun 15, 2012 9:30 AM	Delivered	EARTH CITY, MO	
Jun 15, 2012 7:12 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Jun 15, 2012 7:04 AM	At local FedEx facility	EARTH CITY, MO	
Jun 15, 2012 5:47 AM	At destination sort facility	BERKELEY, MO	
Jun 15, 2012 4:59 AM	Departed FedEx location	MEMPHIS, TN	
Jun 15, 2012 12:42 AM	Arrived at FedEx location	MEMPHIS, TN	
Jun 14, 2012 5:13 PM	Left FedEx origin facility	PASCO, WA	
Jun 14, 2012 4:06 PM	Picked up	PASCO, WA	
Jun 14, 2012 2:50 PM	Shipment information sent to FedEx		

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AUGUST 10, 2012 REVISION 3

TestAmerica
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CUR Form #: 0 5 4

Lot #(s): ~~FZF150482~~ ↓ ↓ 423

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: I12-021-432 / I12-025-008

Initiated By: NVO Date: 6/15/12 Time: 0930

Shipping Information

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

Shipping # (s):*		Sample Temperature (s):**	
1. 7985 1204 3785	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: [signature] Date: 06-19-12

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

CH2MHill Plateau Remediation Company SL1274 CHL035

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W12-006-196**

Page 1 of 1

SDG 22421

Collector	AL MCINTYRE / CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-006	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, JUNE 2012	**Logbook No.**	HNF-N-506 50/17	**Ice Chest No.**	GWS 107
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7936 7118 2443
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
B2LPK0	N	W	6.11.12	1033	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2LPK0	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
AL MCINTYRE / CHPRC		JUN 1 1 2012 1330	R Ellingsworth		JUN 1 1 2012 1330
R Ellingsworth		6/12/12 1400	Fed EX		
FED EX			NICHOLAS OWENS		6/13/12 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 6/5/2012

A-6004-842 (REV 2)

AUGUST 10, 2012

REVISION 3

Detailed Results

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Enter tracking number Track

Detailed Results | Notifications

Tracking no.: 793671182443 Select time format: 12H | 24H E-mail notifications

Delivered

Initiated — Picked up — In transit — Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Jun 12, 2012	EARTH CITY, MO
Delivery date Jun 13, 2012 9:16 AM	Signature Proof of Delivery

Shipment Options Help

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

Shipment Facts Help

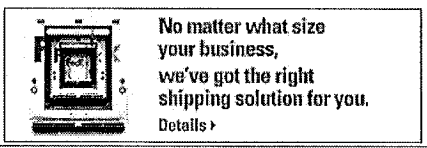
Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	48.0 lbs/21.8 kg	Reference	GWS-107

Shipment Travel History Help

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Jun 13, 2012 9:16 AM	**Delivered**	EARTH CITY, MO	
Jun 13, 2012 7:25 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Jun 13, 2012 7:17 AM	At local FedEx facility	EARTH CITY, MO	
Jun 13, 2012 5:37 AM	At destination sort facility	BERKELEY, MO	
Jun 13, 2012 4:46 AM	Departed FedEx location	MEMPHIS, TN	
Jun 13, 2012 12:23 AM	Arrived at FedEx location	MEMPHIS, TN	
Jun 12, 2012 5:11 PM	Left FedEx origin facility	PASCO, WA	
Jun 12, 2012 3:59 PM	Picked up	PASCO, WA	
Jun 12, 2012 3:17 PM	Shipment Information sent to FedEx		



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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): Fr. F130419 ↓ 419

CUR Form #: 0 3 5

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: I12-021-140 / I12-021-142 / W12-006-196

Initiated By: NVO Date: 6/13/12 Time: 0915

Shipping Information

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

Shipping # (s):*

1. 7936 7118 2443
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:

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

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

Project Management Review: [illegible] Date: 6-14-12

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 SL1274	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-021-142 Page 1 of 1

Collector	D.J. Woehle CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	I12-021	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	100KR4, APRIL 2012	**Logbook No.**	HNF-N-506 44/96	**Ice Chest No.**	GWS 107
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7936 7118 2443
Protocol	CERCLA	**Priority:**	45 Days	**Offsite Property No.**	

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KHW6	Y	W	6-12-12	0927	1x500-mL G/P	6020_METALS_ICPMS: DURA LIST (10)	6 Months	HNO3 to pH <2
B2KHW2	N	W	"	"	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2KHW2	N	W	"	"	1x500-mL G/P	6020_METALS_ICPMS: DURA LIST (10)	6 Months	HNO3 to pH <2
B2KHW2	N	W	6-12-12	0927	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
D.J. Woehle CHPRC	JUN 12 2012	1115	ARMS Tutyre	JUN 12 2012	1115
ARMS Tutyre	6/12/12	1400	Fed Ex		
Fed Ex			Nicholas Owens	6/13/12	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

A-6004-842 (REV 2)

SDG 32411

AUGUST 10, 2012

REVISION 3

CH2MHill Plateau Remediation Company SL1274 CWL035	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-021-140 Page 1 of 1

Collector	D.J. Woehle CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, APRIL 2012	Logbook No.	HNF-N-506 44/96	Ice Chest No.	GWS 107
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7936 7118 3443
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KHL7	N	W	6-12-12	1100	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2KHL7	N	W	"	"	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2KHL7	N	W	"	"	1x20-mL P	Activity Scan	6 Months	None
B2KHM1	Y	W	6-12-12	1100	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
D.J. Woehle CHPRC	D.J. Woehle	JUN 1 2 2012 1115	ARMcEntyre	ARMcEntyre	JUN 1 2 2012 1115
ARMcEntyre	ARMcEntyre	6/12/12 1400	Fed Ex		
FED EX			NICHOLAS OWENS		6/13/12 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

A-6004-842 (REV 2)

SDG 22424

3 3 8 7 2

AUGUST 10, 2012

REVISION 3

Detailed Results

Printer-Friendly | Get Link | Help

Enter tracking number Track

Detailed Results | Notifications

Tracking no.: 793671182443 Select time format: 12H | 24H E-mail notifications

Delivered

Initiated — Picked up — In transit — Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Jun 12, 2012	EARTH CITY, MO
Delivery date Jun 13, 2012 9:16 AM	Signature Proof of Delivery

Shipment Options Help

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

Shipment Facts Help

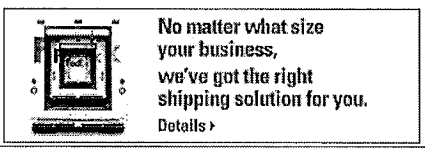
Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	48.0 lbs/21.8 kg	Reference	GWS-107

Shipment Travel History Help

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Jun 13, 2012 9:16 AM	**Delivered**	EARTH CITY, MO	
Jun 13, 2012 7:25 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Jun 13, 2012 7:17 AM	At local FedEx facility	EARTH CITY, MO	
Jun 13, 2012 5:37 AM	At destination sort facility	BERKELEY, MO	
Jun 13, 2012 4:48 AM	Departed FedEx location	MEMPHIS, TN	
Jun 13, 2012 12:23 AM	Arrived at FedEx location	MEMPHIS, TN	
Jun 12, 2012 5:11 PM	Left FedEx origin facility	PASCO, WA	
Jun 12, 2012 3:59 PM	Picked up	PASCO, WA	
Jun 12, 2012 3:17 PM	Shipment information sent to FedEx		



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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 0 3 5

Lot #(s): FL F130419 ↓ 419

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: I12-021-140/I12-021-142/W12-006-196

Initiated By: JVO Date: 6/13/12 Time: 0915

Shipping Information

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

Shipping # (s):*

1. 7936 7118 2443
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:

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

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

Project Management Review: CVS Date: 06-14-12

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.

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-302
REV NUM	0
DATE INITIATED	7/16/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	I12-025
OPERABLE UNIT(S)	100-NR-2
PROJECT(S)	CERC12
SAMPLE EVENT TITLE(S)	CERC12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	1
SAMPLE NUMBERS	B2KWL7
SAMPLE MATRIX	WATER
COLLECTION DATE	6/14/2012 - 6/14/2012
SDG NUM	SL1274

ISSUE BACKGROUND

CLASS	Laboratory Issue
TYPE	Analysis Holding Time Exceeded
DESCRIPTION	For Method 300.0 Nitrate analysis on sample B2KWL7, the sample was initially analyzed within hold. Due to CCV failure for Nitrate, the sample was reanalyzed outside of 2 times hold. The reanalysis result confirms the original in hold result.

DISPOSITION

DESCRIPTION	PROPOSED DISPOSITION: TASL PROPOSES TO REPORT SAMPLE RESULTS FROM THE REANALYSIS AND NARRATE THE EXCURSION IN THE CASE NARRATIVE.
JUSTIFICATION	ACCEPTED DISPOSITION: Accept proposed resolution SUBMITTED BY: Chenise Lambert-Sykes/TASL DATE: 7/16/12 ACCEPTED BY: Karen Waters-Husted/CHPRC DATE: 7/17/12

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-301
REV NUM	0
DATE INITIATED	7/16/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	I12-025
OPERABLE UNIT(S)	100-NR-2
PROJECT(S)	CERC12
SAMPLE EVENT TITLE(S)	CERC12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	1
SAMPLE NUMBERS	B2KWL7
SAMPLE MATRIX	WATER
COLLECTION DATE	6/14/2012 - 6/14/2012
SDG NUM	SL1274

ISSUE BACKGROUND

CLASS	Field Sampling Issue
TYPE	Incorrect Sample Preservation
DESCRIPTION	For 8015 TPH Gasoline Range analysis on sample B2KWL7, the sample was presumed to be preserved to a pH of <2. Due to the potential loss of volatile constituents, VOA vials are not checked for pH preservation until the time of analysis. Sample pH was not less than 2. Sample results are within acceptance limits.

DISPOSITION

DESCRIPTION	PROPOSED DISPOSITION: TASL PROPOSES TO REPORT SAMPLE RESULTS AND NARRATE THE EXCURSION IN THE CASE NARRATIVE.
JUSTIFICATION	ACCEPTED DISPOSITION: Accept proposed resolution. SUBMITTED BY: Chenise Lambert-Sykes DATE: 7/16/12 ACCEPTED BY: Karen Waters Husted/CHPRC DATE: 7/16/12

Problem and Discrepancy Report

TASL

SDG SL1274

08/08/12

---

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

a) The sample number B2KWH6 is incorrect on page 12. It should be B2KHW6.
b) Cyanide RPD is out of limits on page 165 but not discussed in the narrative.

Resolution: *Provide appropriate correction.*

Lab Response: The sample number has been corrected for item a.

Item b is a lab data association issue that has been addressed. The correct information has been assigned and that page should not have been associated with this SDG. The report has been revised.

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

Provide a resolution to each issue noted on the report

GC/MS VOLATILES

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L677

GC/MS Volatiles

Lot-Sample #...: F2F150422-001 **Work Order #...:** MT5R31AC **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/25/12 **Analysis Date..:** 06/25/12
Prep Batch #...: 2178025
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	**7.3 B,T**	**2.0**	**ug/L**	**0.34**
Methylene chloride	**1.1**	**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	105	(85 - 120)
Dibromofluoromethane	106	(85 - 118)
1,2-Dichloroethane-d4	103	(80 - 119)
4-Bromofluorobenzene	104	(84 - 115)

NOTE(S):

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

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B2L677

GC/MS Volatiles

Lot-Sample #: F2F150422-001 **Work Order #:** MT5R31AC **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: B2KWL6

GC/MS Volatiles

Lot-Sample #...: F2F150423-003 **Work Order #...:** MT5TP1AE **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/25/12 **Analysis Date..:** 06/25/12
Prep Batch #...: 2178025
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
Chloroprene	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: B2KWL6

GC/MS Volatiles

Lot-Sample #...: F2F150423-003 **Work Order #...:** MT5TP1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.0 B,T**	**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	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	114	(85 - 118)
1,2-Dichloroethane-d4	122 *	(80 - 119)
4-Bromofluorobenzene	108	(84 - 115)

NOTE(S):

* Surrogate recovery is outside stated control limits.

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

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B2KWL6

GC/MS Volatiles

Lot-Sample #: F2F150423-003 **Work Order #:** MT5TP1AE **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 #...: SL1274 **Work Order #...:** MVAMD1AA **Matrix.....:** WATER
MB Lot-Sample #: F2F260000-025

Prep Date.....: 06/25/12
Analysis Date..: 06/25/12 **Prep Batch #...:** 2178025
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	20	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Acetonitrile	ND	5.0	ug/L	SW846 8260B
Acrolein	ND	10	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroprene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Allyl chloride	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	2.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,2-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
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	**0.43 J**	**2.0**	**ug/L**	**SW846 8260B**
Methylene chloride	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL1274 **Work Order #...:** MVAMD1AA **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	110	(85 - 120)
Dibromofluoromethane	122 *	(85 - 118)
1,2-Dichloroethane-d4	129 *	(80 - 119)
4-Bromofluorobenzene	117 *	(84 - 115)

NOTE(S):

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

J Estimated result. Result is less than RL.

* Surrogate recovery is outside stated control limits.

CH2M Hill Plateau Remediation DOE RL

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F2F260000-025 B **Work Order #:** MVAMD1AA **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 #...: SL1274 Work Order #...: MVAMD1AC Matrix.....: WATER
LCS Lot-Sample#: F2F260000-025
Prep Date.....: 06/25/12 Analysis Date..: 06/25/12
Prep Batch #...: 2178025
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
cis-1,3-Dichloropropene	10.0	11.2	ug/L	112	SW846 8260B
Dibromochloromethane	10.0	10.3	ug/L	103	SW846 8260B
Chloromethane	10.0	11.3	ug/L	113	SW846 8260B
Bromomethane	10.0	10.6	ug/L	106	SW846 8260B
Chloroethane	10.0	10.6	ug/L	106	SW846 8260B
1,1-Dichloroethene	10.0	10.7	ug/L	107	SW846 8260B
1,2-Dichloroethene (total)	20.0	21.1	ug/L	105	SW846 8260B
1,2-Dichloropropane	10.0	10.0	ug/L	100	SW846 8260B
Bromodichloromethane	10.0	10.6	ug/L	106	SW846 8260B
trans-1,3-Dichloropropene	10.0	11.5	ug/L	115	SW846 8260B
2-Hexanone	10.0	9.82	ug/L	98	SW846 8260B
Chlorobenzene	10.0	9.24	ug/L	92	SW846 8260B
Bromoform	10.0	10.6	ug/L	106	SW846 8260B
Ethylbenzene	10.0	10.5	ug/L	105	SW846 8260B
Styrene	10.0	10.7	ug/L	107	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	9.39	ug/L	94	SW846 8260B
Allyl chloride	10.0	9.74	ug/L	97	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	10.0	9.66	ug/L	97	SW846 8260B
1,2-Dibromoethane	10.0	9.75	ug/L	98	SW846 8260B
trans-1,4-Dichloro-2-butene	10.0	10.3	ug/L	103	SW846 8260B
Dichlorodifluoromethane (Freon 12)	10.0	10.7	ug/L	107	SW846 8260B
Ethyl methacrylate	10.0	9.25	ug/L	93	SW846 8260B
Methyl methacrylate	10.0	8.57	ug/L	86	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	10.0	ug/L	100	SW846 8260B
Trichlorofluoromethane	10.0	10.9	ug/L	109	SW846 8260B
Acetonitrile	50.0	42.2	ug/L	84	SW846 8260B
Iodomethane	10.0	11.0	ug/L	110	SW846 8260B
Vinyl acetate	10.0	10.5	ug/L	105	SW846 8260B
Acrolein	50.0	53.7	ug/L	107	SW846 8260B
Isobutanol	200	196	ug/L	98	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1274 **Work Order #...:** MVAMD1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2F260000-025

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methacrylonitrile	50.0	46.4	ug/L	93	SW846 8260B
1,4-Dioxane	200	194	ug/L	97	SW846 8260B
Chloroprene	10.0	9.10	ug/L	91	SW846 8260B
Dibromomethane	10.0	10.4	ug/L	104	SW846 8260B
1,2,3-Trichloropropane	10.0	9.87	ug/L	99	SW846 8260B
Vinyl chloride	10.0	10.4	ug/L	104	SW846 8260B
Acetone	10.0	10.4	ug/L	104	SW846 8260B
Methylene chloride	10.0	10.5	ug/L	105	SW846 8260B
Carbon disulfide	10.0	11.3	ug/L	113	SW846 8260B
1,1-Dichloroethane	10.0	10.7	ug/L	107	SW846 8260B
2-Butanone	10.0	9.34	ug/L	93	SW846 8260B
Chloroform	10.0	10.4	ug/L	104	SW846 8260B
cis-1,2-Dichloroethene	10.0	10.6	ug/L	106	SW846 8260B
Propionitrile	50.0	47.9	ug/L	96	SW846 8260B
trans-1,2-Dichloroethene	10.0	10.4	ug/L	104	SW846 8260B
1,1,1-Trichloroethane	10.0	11.0	ug/L	110	SW846 8260B
Carbon tetrachloride	10.0	10.9	ug/L	109	SW846 8260B
1,2-Dichloroethane	10.0	10.5	ug/L	105	SW846 8260B
Benzene	10.0	9.72	ug/L	97	SW846 8260B
Trichloroethene	10.0	10.8	ug/L	108	SW846 8260B
4-Methyl-2-pentanone	10.0	9.98	ug/L	100	SW846 8260B
1,1,2-Trichloroethane	10.0	9.75	ug/L	97	SW846 8260B
Tetrachloroethene	10.0	11.0	ug/L	110	SW846 8260B
Tetrahydrofuran	50.0	43.8	ug/L	88	SW846 8260B
1,4-Dichlorobenzene	10.0	9.86	ug/L	99	SW846 8260B
1-Butanol	100	108	ug/L	108	SW846 8260B
Toluene	10.0	9.54	ug/L	95	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(88 - 120)
Dibromofluoromethane	108	(87 - 115)
1,2-Dichloroethane-d4	108	(81 - 117)
4-Bromofluorobenzene	102	(84 - 117)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1274 **Work Order #...:** MT5R31AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150422-001 MT5R31AE-MSD
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/25/12 **Analysis Date..:** 06/25/12
Prep Batch #...: 2178025
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
cis-1,3-Dichloropropene		10.0	10.3	ug/L	103		SW846 8260B
		10.0	11.7	ug/L	117	13	SW846 8260B
Chloromethane		10.0	9.54	ug/L	95		SW846 8260B
		10.0	10.6	ug/L	106	10	SW846 8260B
Bromomethane		10.0	9.37	ug/L	94		SW846 8260B
		10.0	10.4	ug/L	104	9.9	SW846 8260B
Chloroethane		10.0	8.97	ug/L	90		SW846 8260B
		10.0	10.0	ug/L	100	11	SW846 8260B
1,2-Dichloroethene (total)		20.0	18.9	ug/L	95		SW846 8260B
		20.0	20.5	ug/L	102	7.9	SW846 8260B
1,2-Dichloropropane		10.0	9.21	ug/L	92		SW846 8260B
		10.0	10.1	ug/L	101	9.5	SW846 8260B
Bromodichloromethane		10.0	9.84	ug/L	98		SW846 8260B
		10.0	11.0	ug/L	110	11	SW846 8260B
trans-1,3-Dichloropropene		10.0	10.4	ug/L	104		SW846 8260B
		10.0	11.6	ug/L	116	11	SW846 8260B
2-Hexanone		10.0	8.34	ug/L	83		SW846 8260B
		10.0	9.76	ug/L	98	16	SW846 8260B
Chlorobenzene		10.0	8.71	ug/L	87		SW846 8260B
		10.0	9.02	ug/L	90	3.5	SW846 8260B
Bromoform		10.0	9.98	ug/L	100		SW846 8260B
		10.0	10.8	ug/L	108	7.9	SW846 8260B
Styrene		10.0	10.1	ug/L	101		SW846 8260B
		10.0	10.4	ug/L	104	3.0	SW846 8260B
1,1,2,2-Tetrachloroethane		10.0	8.86	ug/L	89		SW846 8260B
		10.0	9.56	ug/L	96	7.5	SW846 8260B
Dibromochloromethane		10.0	9.78	ug/L	98		SW846 8260B
		10.0	10.7	ug/L	107	9.1	SW846 8260B
Allyl chloride		10.0	8.69	ug/L	87		SW846 8260B
		10.0	9.38	ug/L	94	7.6	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)		10.0	9.48	ug/L	95		SW846 8260B
		10.0	9.61	ug/L	96	1.4	SW846 8260B
1,2-Dibromoethane		10.0	9.33	ug/L	93		SW846 8260B
		10.0	10.6	ug/L	106	13	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1274 **Work Order #...:** MT5R31AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150422-001 MT5R31AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
trans-1,4-Dichloro-2-butene		10.0	9.07	ug/L	91		SW846 8260B
		10.0	9.14	ug/L	91	0.80	SW846 8260B
Dichlorodifluoromethane (Freon 12)		10.0	9.29	ug/L	93		SW846 8260B
		10.0	10.4	ug/L	104	11	SW846 8260B
Ethyl methacrylate		10.0	8.29	ug/L	83		SW846 8260B
		10.0	9.44	ug/L	94	13	SW846 8260B
Methyl methacrylate		10.0	7.50	ug/L	75		SW846 8260B
		10.0	9.34	ug/L	93	22	SW846 8260B
1,1,1,2-Tetrachloroethane		10.0	9.58	ug/L	96		SW846 8260B
		10.0	9.99	ug/L	100	4.2	SW846 8260B
Trichlorofluoromethane		10.0	9.72	ug/L	97		SW846 8260B
		10.0	10.5	ug/L	105	7.3	SW846 8260B
Acetonitrile		50.0	36.8	ug/L	74		SW846 8260B
		50.0	49.3	ug/L	99	29	SW846 8260B
Iodomethane		10.0	9.86	ug/L	99		SW846 8260B
		10.0	10.6	ug/L	106	7.7	SW846 8260B
Vinyl acetate		10.0	9.73	ug/L	97		SW846 8260B
		10.0	11.6	ug/L	116	17	SW846 8260B
Acrolein		50.0	48.8	ug/L	98		SW846 8260B
		50.0	56.2	ug/L	112	14	SW846 8260B
Isobutanol		200	144	ug/L	72		SW846 8260B
		200	199	ug/L	99	32	SW846 8260B
Methacrylonitrile		50.0	41.7	ug/L	83		SW846 8260B
		50.0	50.8	ug/L	102	20	SW846 8260B
Chloroprene		10.0	8.24	ug/L	82		SW846 8260B
		10.0	8.70	ug/L	87	5.5	SW846 8260B
Dibromomethane		10.0	9.75	ug/L	97		SW846 8260B
		10.0	11.2	ug/L	112	14	SW846 8260B
1,2,3-Trichloropropane		10.0	8.80	ug/L	88		SW846 8260B
		10.0	9.98	ug/L	100	13	SW846 8260B
1,1-Dichloroethene	ND	10.0	9.44	ug/L	94		SW846 8260B
	ND	10.0	10.2	ug/L	102	7.5	SW846 8260B
Ethylbenzene	ND	10.0	9.80	ug/L	98		SW846 8260B
	ND	10.0	9.52	ug/L	95	2.9	SW846 8260B
1,4-Dioxane	ND	200	173	ug/L	86		SW846 8260B
	ND	200	194	ug/L	97	11	SW846 8260B
Vinyl chloride	ND	10.0	8.72	ug/L	87		SW846 8260B
	ND	10.0	9.72	ug/L	97	11	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1274 **Work Order #...:** MT5R31AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150422-001 MT5R31AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY		RPD	METHOD
Acetone	7.3	10.0	12.3	ug/L	49			SW846 8260B
	7.3	10.0	10.8	ug/L	35	T	13	SW846 8260B
Methylene chloride	1.1	10.0	10.6	ug/L	95			SW846 8260B
	1.1	10.0	11.5	ug/L	103		7.9	SW846 8260B
Carbon disulfide	ND	10.0	9.86	ug/L	99			SW846 8260B
	ND	10.0	10.7	ug/L	107		7.8	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.51	ug/L	95			SW846 8260B
	ND	10.0	10.4	ug/L	104		9.4	SW846 8260B
2-Butanone	ND	10.0	7.30	ug/L	73			SW846 8260B
	ND	10.0	10.4	ug/L	104		35	SW846 8260B
Chloroform	ND	10.0	9.46	ug/L	95			SW846 8260B
	ND	10.0	10.3	ug/L	103		8.2	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	9.58	ug/L	96			SW846 8260B
	ND	10.0	10.4	ug/L	104		8.4	SW846 8260B
Propionitrile	ND	50.0	41.3	ug/L	83			SW846 8260B
	ND	50.0	48.8	ug/L	98		17	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	9.34	ug/L	93			SW846 8260B
	ND	10.0	10.0	ug/L	100		7.4	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	9.97	ug/L	100			SW846 8260B
	ND	10.0	10.7	ug/L	107		7.0	SW846 8260B
Carbon tetrachloride	ND	10.0	9.91	ug/L	99			SW846 8260B
	ND	10.0	10.3	ug/L	103		3.6	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.2	ug/L	102			SW846 8260B
	ND	10.0	11.4	ug/L	114		11	SW846 8260B
Benzene	ND	10.0	9.03	ug/L	90			SW846 8260B
	ND	10.0	9.71	ug/L	97		7.2	SW846 8260B
Trichloroethene	ND	10.0	9.73	ug/L	97			SW846 8260B
	ND	10.0	10.2	ug/L	102		4.3	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	8.10	ug/L	81			SW846 8260B
	ND	10.0	10.3	ug/L	103		24	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.00	ug/L	90			SW846 8260B
	ND	10.0	10.2	ug/L	102		12	SW846 8260B
Tetrachloroethene	ND	10.0	10.1	ug/L	101			SW846 8260B
	ND	10.0	9.96	ug/L	100		1.5	SW846 8260B
Tetrahydrofuran	ND	50.0	37.2	ug/L	74			SW846 8260B
	ND	50.0	50.8	ug/L	102		31	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	9.42	ug/L	94			SW846 8260B
	ND	10.0	9.49	ug/L	95		0.75	SW846 8260B
1-Butanol	ND	100	86.0	ug/L	86			SW846 8260B
	ND	100	98.7	ug/L	99		14	SW846 8260B
Toluene	ND	10.0	9.07	ug/L	91			SW846 8260B
	ND	10.0	8.97	ug/L	90		1.1	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1274 **Work Order #...:** MT5R31AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150422-001 MT5R31AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	95	(85 - 120)
	94	(85 - 120)
Dibromofluoromethane	99	(85 - 118)
	107	(85 - 118)
1,2-Dichloroethane-d4	101	(80 - 119)
	115	(80 - 119)
4-Bromofluorobenzene	99	(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

T Spike sample recovery is outside control limits.

GC/MS
SEMI-VOLATILES

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWL6

GC/MS Semivolatiles

Lot-Sample #...: F2F150423-003 **Work Order #...:** MT5TP1AD **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/20/12 **Analysis Date..:** 06/21/12
Prep Batch #...: 2172103
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	
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

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWL6

GC/MS Semivolatiles

Lot-Sample #...: F2F150423-003 **Work Order #...:** MT5TP1AD **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: B2KWL6

GC/MS Semivolatiles

Lot-Sample #...: F2F150423-003 **Work Order #...:** MT5TP1AD **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: B2KWL6

GC/MS Semivolatiles

Lot-Sample #...: F2F150423-003 **Work Order #...:** MT5TP1AD **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	31	(19 - 86)
Phenol-d5	19	(10 - 71)
Nitrobenzene-d5	57	(44 - 100)
2-Fluorobiphenyl	56	(44 - 99)
2,4,6-Tribromophenol	73	(43 - 115)
Terphenyl-d14	93	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2KWL6

GC/MS Semivolatiles

Lot-Sample #: F2F150423-003 **Work Order #:** MT5TP1AD **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aldol condensate		15 J	M	3.4754	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 #...: SL1274 **Work Order #...:** MT8CP1AA **Matrix.....:** WATER
MB Lot-Sample #: F2F200000-103

Prep Date.....: 06/20/12
Analysis Date..: 06/21/12 **Prep Batch #...:** 2172103
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
3-Methylphenol & 4-Methylphenol	ND	20	ug/L	SW846 8270C
Hexachloropropene	ND	100	ug/L	SW846 8270C
N-Nitro-o-toluidine	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 #...: SL1274 **Work Order #...:** MT8CP1AA **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 #...: SL1274 **Work Order #...:** MT8CP1AA **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 #...: SL1274 **Work Order #...:** MT8CP1AA **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	37	(19 - 86)
Phenol-d5	25	(10 - 71)
Nitrobenzene-d5	56	(44 - 100)
2-Fluorobiphenyl	50	(44 - 99)
2,4,6-Tribromophenol	55	(43 - 115)
Terphenyl-d14	71	(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 #: F2F200000-103 B **Work Order #:** MT8CP1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		16 J	M	2.887	ug/L
Unknown aldol condensate		11 J	M	3.4914	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 #...: SL1274 Work Order #...: MT8CP1AC Matrix.....: WATER
LCS Lot-Sample#: F2F200000-103
Prep Date.....: 06/20/12 Analysis Date..: 06/21/12
Prep Batch #...: 2172103
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
3-Methylphenol & 4-Methylphenol	100	71.7	ug/L	72	SW846 8270C
Phenol	100	33.6	ug/L	34	SW846 8270C
bis(2-Chloroethyl)-ether	100	73.2	ug/L	73	SW846 8270C
2-Chlorophenol	100	71.0	ug/L	71	SW846 8270C
1,3-Dichlorobenzene	100	62.7	ug/L	63	SW846 8270C
1,4-Dichlorobenzene	100	64.1	ug/L	64	SW846 8270C
1,2-Dichlorobenzene	100	67.2	ug/L	67	SW846 8270C
2-Methylphenol	100	66.0	ug/L	66	SW846 8270C
2,2'-oxybis (1-Chloropropane)	100	74.0	ug/L	74	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	80.5	ug/L	81	SW846 8270C
Hexachloroethane	100	65.0	ug/L	65	SW846 8270C
Nitrobenzene	100	72.6	ug/L	73	SW846 8270C
2-Methylnaphthalene	100	68.2	ug/L	68	SW846 8270C
Isophorone	100	69.6	ug/L	70	SW846 8270C
2-Nitrophenol	100	74.1	ug/L	74	SW846 8270C
2,4-Dimethylphenol	100	72.3	ug/L	72	SW846 8270C
bis(2-Chloroethoxy) methane	100	74.0	ug/L	74	SW846 8270C
2,4-Dichlorophenol	100	72.5	ug/L	72	SW846 8270C
1,2,4-Trichloro-benzene	100	64.2	ug/L	64	SW846 8270C
Naphthalene	100	67.6	ug/L	68	SW846 8270C
4-Chloroaniline	100	53.4	ug/L	53	SW846 8270C
Hexachlorobutadiene	100	60.3	ug/L	60	SW846 8270C
4-Chloro-3-methylphenol	100	76.2	ug/L	76	SW846 8270C
Hexachlorocyclopenta-diene	100	77.5	ug/L	77	SW846 8270C
2,4,6-Trichloro-phenol	100	75.9	ug/L	76	SW846 8270C
2,4,5-Trichloro-phenol	100	79.3	ug/L	79	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1274 Work Order #...: MT8CP1AC Matrix.....: WATER
LCS Lot-Sample#: F2F200000-103

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2-Chloronaphthalene	100	71.6	ug/L	72	SW846 8270C
2-Nitroaniline	100	84.3	ug/L	84	SW846 8270C
Dimethyl phthalate	100	81.6	ug/L	82	SW846 8270C
Acenaphthylene	100	76.5	ug/L	76	SW846 8270C
2,6-Dinitrotoluene	100	83.8	ug/L	84	SW846 8270C
3-Nitroaniline	100	73.0	ug/L	73	SW846 8270C
Acenaphthene	100	75.6	ug/L	76	SW846 8270C
2,4-Dinitrophenol	100	76.1	ug/L	76	SW846 8270C
4-Nitrophenol	100	33.3	ug/L	33	SW846 8270C
Dibenzofuran	100	73.5	ug/L	73	SW846 8270C
2,4-Dinitrotoluene	100	84.6	ug/L	85	SW846 8270C
Diethyl phthalate	100	80.4	ug/L	80	SW846 8270C
Fluorene	100	77.9	ug/L	78	SW846 8270C
4-Chlorophenyl phenyl ether	100	76.1	ug/L	76	SW846 8270C
4-Nitroaniline	100	81.1	ug/L	81	SW846 8270C
4,6-Dinitro-2-methylphenol	100	86.7	ug/L	87	SW846 8270C
Diphenylamine+N-Nitrosodi	100	101	ug/L	101	SW846 8270C
4-Bromophenyl phenyl ether	100	79.5	ug/L	79	SW846 8270C
Hexachlorobenzene	100	79.2	ug/L	79	SW846 8270C
Pentachlorophenol	100	75.8	ug/L	76	SW846 8270C
Phenanthrene	100	79.2	ug/L	79	SW846 8270C
Anthracene	100	79.4	ug/L	79	SW846 8270C
Carbazole	100	83.2	ug/L	83	SW846 8270C
Fluoranthene	100	82.7	ug/L	83	SW846 8270C
Pyrene	100	85.4	ug/L	85	SW846 8270C
Butyl benzyl phthalate	100	89.5	ug/L	89	SW846 8270C
Benzo(a)anthracene	100	95.1	ug/L	95	SW846 8270C
3,3'-Dichlorobenzidine	100	66.3	ug/L	66	SW846 8270C
Chrysene	100	84.1	ug/L	84	SW846 8270C
bis(2-Ethylhexyl) phthalate	100	91.9	ug/L	92	SW846 8270C
Di-n-butyl phthalate	100	84.9	ug/L	85	SW846 8270C
Di-n-octyl phthalate	100	91.2	ug/L	91	SW846 8270C
Benzo(b)fluoranthene	100	88.8	ug/L	89	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT8CP1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2F200000-103

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzo(k)fluoranthene	**100**	**88.6**	**ug/L**	**89**	**SW846 8270C**
Benzo(a)pyrene	**100**	**81.3**	**ug/L**	**81**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**100**	**90.1**	**ug/L**	**90**	**SW846 8270C**
Benzo(ghi)perylene	**100**	**89.4**	**ug/L**	**89**	**SW846 8270C**
Dibenz(a,h)anthracene	**100**	**88.6**	**ug/L**	**89**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	50	(29 - 62)
Phenol-d5	33	(20 - 42)
Nitrobenzene-d5	75	(51 - 98)
2-Fluorobiphenyl	74	(50 - 93)
2,4,6-Tribromophenol	82	(54 - 109)
Terphenyl-d14	96	(60 - 121)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT5TP1AK-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150423-003 MT5TP1AL-MSD
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/20/12 **Analysis Date..:** 06/21/12
Prep Batch #...: 2172103
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
3-Methylphenol & 4-Methylphenol	ND	190	169	ug/L	89		SW846 8270C
	ND	192	166	ug/L	87	2.0	SW846 8270C
Phenol	ND	190	97.4	ug/L	51		SW846 8270C
	ND	192	96.4	ug/L	50	1.0	SW846 8270C
bis(2-Chloroethyl)-ether	ND	190	156	ug/L	82		SW846 8270C
	ND	192	154	ug/L	80	1.2	SW846 8270C
2-Chlorophenol	ND	190	152	ug/L	80		SW846 8270C
	ND	192	151	ug/L	79	0.98	SW846 8270C
1,3-Dichlorobenzene	ND	190	139	ug/L	74		SW846 8270C
	ND	192	135	ug/L	71	3.1	SW846 8270C
1,4-Dichlorobenzene	ND	190	142	ug/L	75		SW846 8270C
	ND	192	138	ug/L	72	3.0	SW846 8270C
1,2-Dichlorobenzene	ND	190	147	ug/L	78		SW846 8270C
	ND	192	143	ug/L	75	3.0	SW846 8270C
2-Methylphenol	ND	190	148	ug/L	78		SW846 8270C
	ND	192	146	ug/L	76	1.1	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	190	155	ug/L	82		SW846 8270C
	ND	192	153	ug/L	80	1.1	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	190	169	ug/L	89		SW846 8270C
	ND	192	167	ug/L	87	1.3	SW846 8270C
Hexachloroethane	ND	190	146	ug/L	77		SW846 8270C
	ND	192	142	ug/L	74	3.0	SW846 8270C
Nitrobenzene	ND	190	154	ug/L	81		SW846 8270C
	ND	192	150	ug/L	79	2.2	SW846 8270C
2-Methylnaphthalene	ND	190	145	ug/L	76		SW846 8270C
	ND	192	141	ug/L	74	2.4	SW846 8270C
Isophorone	ND	190	145	ug/L	77		SW846 8270C
	ND	192	143	ug/L	75	1.4	SW846 8270C
2-Nitrophenol	ND	190	156	ug/L	82		SW846 8270C
	ND	192	156	ug/L	81	0.19	SW846 8270C
2,4-Dimethylphenol	ND	190	149	ug/L	78		SW846 8270C
	ND	192	149	ug/L	78	0.06	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT5TP1AK-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150423-003 MT5TP1AL-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
bis(2-Chloroethoxy) methane	ND	190	153	ug/L	81		SW846 8270C
	ND	192	152	ug/L	79	1.1	SW846 8270C
2,4-Dichlorophenol	ND	190	150	ug/L	79		SW846 8270C
	ND	192	149	ug/L	78	0.67	SW846 8270C
1,2,4-Trichloro- benzene	ND	190	141	ug/L	74		SW846 8270C
	ND	192	139	ug/L	72	1.6	SW846 8270C
Naphthalene	ND	190	145	ug/L	76		SW846 8270C
	ND	192	143	ug/L	75	1.4	SW846 8270C
4-Chloroaniline	ND	190	115	ug/L	61		SW846 8270C
	ND	192	119	ug/L	62	3.4	SW846 8270C
Hexachlorobutadiene	ND	190	136	ug/L	72		SW846 8270C
	ND	192	133	ug/L	69	2.5	SW846 8270C
4-Chloro-3-methylphenol	ND	190	155	ug/L	82		SW846 8270C
	ND	192	154	ug/L	81	0.32	SW846 8270C
Hexachlorocyclopenta- diene	ND	190	163	ug/L	86		SW846 8270C
	ND	192	168	ug/L	88	2.8	SW846 8270C
2,4,6-Trichloro- phenol	ND	190	152	ug/L	80		SW846 8270C
	ND	192	151	ug/L	79	0.46	SW846 8270C
2,4,5-Trichloro- phenol	ND	190	155	ug/L	82		SW846 8270C
	ND	192	156	ug/L	81	0.77	SW846 8270C
2-Chloronaphthalene	ND	190	148	ug/L	78		SW846 8270C
	ND	192	147	ug/L	77	0.27	SW846 8270C
2-Nitroaniline	ND	190	163	ug/L	86		SW846 8270C
	ND	192	167	ug/L	87	1.9	SW846 8270C
Dimethyl phthalate	ND	190	160	ug/L	85		SW846 8270C
	ND	192	161	ug/L	84	0.24	SW846 8270C
Acenaphthylene	ND	190	154	ug/L	81		SW846 8270C
	ND	192	153	ug/L	80	0.52	SW846 8270C
2,6-Dinitrotoluene	ND	190	164	ug/L	87		SW846 8270C
	ND	192	166	ug/L	87	0.97	SW846 8270C
3-Nitroaniline	ND	190	149	ug/L	79		SW846 8270C
	ND	192	155	ug/L	81	3.8	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT5TP1AK-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150423-003 MT5TP1AL-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	190	153	ug/L	81		SW846 8270C
	ND	192	154	ug/L	80	0.78	SW846 8270C
2,4-Dinitrophenol	ND	190	152	ug/L	80		SW846 8270C
	ND	192	154	ug/L	80	1.2	SW846 8270C
4-Nitrophenol	ND	190	96.7	ug/L	51		SW846 8270C
	ND	192	100	ug/L	52	3.6	SW846 8270C
Dibenzofuran	ND	190	147	ug/L	78		SW846 8270C
	ND	192	146	ug/L	76	0.61	SW846 8270C
2,4-Dinitrotoluene	ND	190	167	ug/L	88		SW846 8270C
	ND	192	169	ug/L	88	0.95	SW846 8270C
Diethyl phthalate	ND	190	158	ug/L	83		SW846 8270C
	ND	192	160	ug/L	84	1.3	SW846 8270C
Fluorene	ND	190	153	ug/L	81		SW846 8270C
	ND	192	154	ug/L	81	0.91	SW846 8270C
4-Chlorophenyl phenyl ether	ND	190	152	ug/L	80		SW846 8270C
	ND	192	152	ug/L	80	0.52	SW846 8270C
4-Nitroaniline	ND	190	160	ug/L	84		SW846 8270C
	ND	192	164	ug/L	86	2.5	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	190	170	ug/L	90		SW846 8270C
	ND	192	171	ug/L	89	0.35	SW846 8270C
Diphenylamine+N-Nitrosodi	ND	190	200	ug/L	105		SW846 8270C
	ND	192	198	ug/L	103	0.80	SW846 8270C
4-Bromophenyl phenyl ether	ND	190	158	ug/L	83		SW846 8270C
	ND	192	157	ug/L	82	0.31	SW846 8270C
Hexachlorobenzene	ND	190	155	ug/L	82		SW846 8270C
	ND	192	157	ug/L	82	1.5	SW846 8270C
Pentachlorophenol	ND	190	150	ug/L	79		SW846 8270C
	ND	192	150	ug/L	78	0.13	SW846 8270C
Phenanthrene	ND	190	155	ug/L	82		SW846 8270C
	ND	192	156	ug/L	82	0.64	SW846 8270C
Anthracene	ND	190	154	ug/L	81		SW846 8270C
	ND	192	157	ug/L	82	1.5	SW846 8270C
Carbazole	ND	190	162	ug/L	86		SW846 8270C
	ND	192	163	ug/L	85	0.55	SW846 8270C
Fluoranthene	ND	190	162	ug/L	85		SW846 8270C
	ND	192	162	ug/L	84	0.06	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT5TP1AK-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150423-003 MT5TP1AL-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Pyrene	ND	190	168	ug/L	89		SW846 8270C
	ND	192	166	ug/L	87	1.6	SW846 8270C
Butyl benzyl phthalate	ND	190	176	ug/L	93		SW846 8270C
	ND	192	174	ug/L	91	0.62	SW846 8270C
Benzo(a)anthracene	ND	190	187	ug/L	99		SW846 8270C
	ND	192	186	ug/L	97	0.42	SW846 8270C
3,3'-Dichlorobenzidine	ND	190	137	ug/L	72		SW846 8270C
	ND	192	139	ug/L	73	1.3	SW846 8270C
Chrysene	ND	190	165	ug/L	87		SW846 8270C
	ND	192	164	ug/L	86	0.72	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	190	179	ug/L	95		SW846 8270C
	ND	192	178	ug/L	93	0.95	SW846 8270C
Di-n-butyl phthalate	ND	190	165	ug/L	87		SW846 8270C
	ND	192	166	ug/L	87	0.72	SW846 8270C
Di-n-octyl phthalate	ND	190	177	ug/L	94		SW846 8270C
	ND	192	176	ug/L	92	0.67	SW846 8270C
Benzo(b)fluoranthene	ND	190	172	ug/L	91		SW846 8270C
	ND	192	175	ug/L	91	1.4	SW846 8270C
Benzo(k)fluoranthene	ND	190	174	ug/L	92		SW846 8270C
	ND	192	174	ug/L	91	0.05	SW846 8270C
Benzo(a)pyrene	ND	190	162	ug/L	85		SW846 8270C
	ND	192	161	ug/L	84	0.49	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	190	172	ug/L	91		SW846 8270C
	ND	192	177	ug/L	92	2.9	SW846 8270C
Benzo(ghi)perylene	ND	190	172	ug/L	91		SW846 8270C
	ND	192	174	ug/L	91	1.4	SW846 8270C
Dibenz(a,h)anthracene	ND	190	169	ug/L	89		SW846 8270C
	ND	192	172	ug/L	90	1.7	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(19 - 86)
	67	(19 - 86)
Phenol-d5	51	(10 - 71)
	51	(10 - 71)
Nitrobenzene-d5	84	(44 - 100)
	82	(44 - 100)
2-Fluorobiphenyl	80	(44 - 99)
	77	(44 - 99)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT5TP1AK-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150423-003 MT5TP1AL-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	84	(43 - 115)
	83	(43 - 115)
Terphenyl-d14	99	(45 - 131)
	98	(45 - 131)

NOTE(S):

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

Bold print denotes control parameters

TPH Gasoline

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWL7

GC Volatiles

Lot-Sample #...: F2F150423-002 **Work Order #...:** MT5TD1AD **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/21/12 **Analysis Date..:** 06/21/12
Prep Batch #...: 2173071
Dilution Factor: 1 **Method.....:** SW846 8015 MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Volatile Petroleum Hydrocarbons	ND	0.10	mg/L	0.010

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	102	(80 - 125)

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: SL1274 **Work Order #...:** MT8PQ1AA **Matrix.....:** WATER
MB Lot-Sample #: F2F210000-071

Prep Date.....: 06/21/12
Analysis Date..: 06/21/12 **Prep Batch #...:** 2173071
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Volatile Petroleum Hydrocarbons	ND	0.10	mg/L	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	103	(80 - 125)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: SL1274 **Work Order #...:** MT8PQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2F210000-071
Prep Date.....: 06/21/12 **Analysis Date..:** 06/21/12
Prep Batch #...: 2173071
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Volatile Petroleum Hydrocarbons	**1.00**	**0.950**	**mg/L**	**95**	**SW846 8015 MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	133	(53 - 140)

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 Volatiles

Client Lot #...: SL1274 **Work Order #...:** MT5TD1C1-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150423-002 MT5TD1C2-MSD
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/21/12 **Analysis Date..:** 06/21/12
Prep Batch #...: 2173071
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Volatile Petroleum Hydrocarbons	**ND**	1.00	1.02	**mg/L**	102		**SW846 8015 MOD**
	ND	1.00	0.926	**mg/L**	93	9.3	**SW846 8015 MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	138 *	(80 - 125)
	131 *	(80 - 125)

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.

Alcohols & Glycols

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWL7

GC Volatiles

Lot-Sample #...: F2F150423-002 **Work Order #...:** MT5TD1DL **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/20/12 **Analysis Date..:** 06/20/12
Prep Batch #...: 2172097
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Ethanol	ND	5.0	mg/L	0.67
Methanol	ND N	5.0	mg/L	1.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Isobutanol	99	(79 - 129)

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWL7

GC Volatiles

Lot-Sample #...: F2F150423-002 **Work Order #...:** MT5TD1DM **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/20/12 **Analysis Date..:** 06/20/12
Prep Batch #...: 2172098
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Ethylene glycol	ND	10	mg/L	2.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Isobutanol	99	(76 - 130)

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: SL1274 **Work Order #...:** MT8AJ1AA **Matrix.....:** WATER
MB Lot-Sample #: F2F200000-097

Prep Date.....: 06/20/12
Analysis Date..: 06/20/12 **Prep Batch #...:** 2172097
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Ethanol	ND	5.0	mg/L	SW846 8015B
Methanol	ND	5.0	mg/L	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Isobutanol	99	(79 - 129)

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: SL1274 **Work Order #...:** MT8AK1AA **Matrix.....:** WATER
MB Lot-Sample #: F2F200000-098

Prep Date.....: 06/20/12
Analysis Date..: 06/20/12 **Prep Batch #...:** 2172098
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Ethylene glycol	ND	10	mg/L	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Isobutanol	99	(76 - 130)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: SL1274 **Work Order #...:** MT8AJ1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2F200000-097
Prep Date.....: 06/20/12 **Analysis Date..:** 06/20/12
Prep Batch #...: 2172097
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Ethanol	**49.8**	**47.6**	**mg/L**	**96**	**SW846 8015B**
Methanol	**49.5**	**46.8**	**mg/L**	**95**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Isobutanol	97	(80 - 119)

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 Volatiles

Client Lot #...: SL1274 **Work Order #...:** MT8AK1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2F200000-098
Prep Date.....: 06/20/12 **Analysis Date..:** 06/20/12
Prep Batch #...: 2172098
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Ethylene glycol	**49.5**	**47.9**	**mg/L**	**97**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Isobutanol	97	(79 - 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 Volatiles

Client Lot #...: SL1274 **Work Order #...:** MT5TD1DN-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150423-002 MT5TD1DP-MSD
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/20/12 **Analysis Date..:** 06/20/12
Prep Batch #...: 2172097
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Ethanol	**ND**	**49.8**	**49.0**	**mg/L**	**98**		**SW846 8015B**
	ND	**49.8**	**52.6**	**mg/L**	**106**	**7.1**	**SW846 8015B**
Methanol	**ND**	**49.5**	**44.2**	**mg/L**	**89**		**SW846 8015B**
	ND	**49.5**	**34.7**	**mg/L**	**70**	**24**	**SW846 8015B**

Qualifiers: a,p,N

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Isobutanol	98	(79 - 129)
	96	(79 - 129)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: SL1274 **Work Order #...:** MT5TD1DQ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150423-002 MT5TD1DR-MSD
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/20/12 **Analysis Date..:** 06/20/12
Prep Batch #...: 2172098
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Ethylene glycol	**ND**	**49.5**	**48.4**	**mg/L**	**98**		**SW846 8015B**
	ND	**49.5**	**47.0**	**mg/L**	**95**	**2.9**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Isobutanol	98	(76 - 130)
	96	(76 - 130)

NOTE(S):

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

Bold print denotes control parameters

TPH Diesel

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWL7

GC Semivolatiles

Lot-Sample #...: F2F150423-002 **Work Order #...:** MT5TD1AC **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/20/12 **Analysis Date..:** 06/21/12
Prep Batch #...: 2172100
Dilution Factor: 1 **Method.....:** SW846 8015 MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH - Diesel Range - WTPH-D	ND	0.50	mg/L	0.017

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	78	(47 - 136)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT8CK1AA **Matrix.....:** WATER
MB Lot-Sample #: F2F200000-100

Prep Date.....: 06/20/12
Analysis Date..: 06/21/12 **Prep Batch #...:** 2172100
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
TPH - Diesel Range - WTPH	ND	0.50	mg/L	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	92	(47 - 136)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT8CK1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2F200000-100
Prep Date.....: 06/20/12 **Analysis Date..:** 06/21/12
Prep Batch #...: 2172100
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH - Diesel Range - WTPH	2.50	1.20	mg/L	48	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	85	(53 - 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 Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT5TD1CX-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150423-002 MT5TD1C0-MSD
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/20/12 **Analysis Date..:** 06/21/12
Prep Batch #...: 2172100
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH - Diesel Range - WTPH	**ND**	**2.39**	**1.46**	**mg/L**	**61**		**SW846 8015 MOD**
	ND	**2.39**	**1.31**	**mg/L**	**55**	**11**	**SW846 8015 MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	92	(47 - 136)
	87	(47 - 136)

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: B2LPK0

GC Semivolatiles

Lot-Sample #...: F2F130419-001 **Work Order #...:** MT4NV1AC **Matrix.....:** WATER
Date Sampled...: 06/11/12 **Date Received..:** 06/13/12
Prep Date.....: 06/18/12 **Analysis Date..:** 06/26/12
Prep Batch #...: 2170084
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	65	(34 - 121)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT6NN1AA **Matrix.....:** WATER
MB Lot-Sample #: F2F180000-084

Prep Date.....: 06/18/12
Analysis Date..: 06/26/12 **Prep Batch #...:** 2170084
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-Trichlorophenol	ND	5.0	ug/L	SW846 8040A
2,4,6-Trichlorophenol	ND	5.0	ug/L	SW846 8040A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	0.0 *	(54 - 139)
2-Fluorophenol	0.0 *	(34 - 121)

NOTE(S):

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

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT6NN1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2F180000-084
Prep Date.....: 06/18/12 **Analysis Date..:** 06/26/12
Prep Batch #...: 2170084
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2-Chlorophenol	100	58.8	ug/L	59	SW846 8040A
4-Chloro-3-methylphenol	100	68.5	ug/L	69	SW846 8040A
3-Methylphenol & 4-Methylphenol	100	63.8	ug/L	64	SW846 8040A
2-Methylphenol	100	62.3	ug/L	62	SW846 8040A
2,4-Dichlorophenol	100	66.6	ug/L	67	SW846 8040A
2,6-Dichlorophenol	100	65.0	ug/L	65	SW846 8040A
2,4-Dimethylphenol	100	63.4	ug/L	63	SW846 8040A
2,4-Dinitrophenol	100	75.7	ug/L	76	SW846 8040A
4,6-Dinitro-2-methylphenol	100	84.9	ug/L	85	SW846 8040A
Dinoseb	100	79.2	ug/L	79	SW846 8040A
2-Nitrophenol	100	68.1	ug/L	68	SW846 8040A
4-Nitrophenol	100	78.9	ug/L	79	SW846 8040A
Pentachlorophenol	100	90.8	ug/L	91	SW846 8040A
Phenol	100	62.3	ug/L	62	SW846 8040A
2,3,4,6-Tetrachlorophenol	100	72.0	ug/L	72	SW846 8040A
2,4,5-Trichloro-phenol	100	67.5	ug/L	68	SW846 8040A
2,4,6-Trichloro-phenol	100	69.8	ug/L	70	SW846 8040A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	68	(43 - 140)
2-Fluorophenol	51	(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 #...: SL1274 Work Order #...: MT4NV1AD-MS Matrix.....: WATER
MS Lot-Sample #: F2F130419-001 MT4NV1AE-MSD
Date Sampled...: 06/11/12 Date Received..: 06/13/12
Prep Date.....: 06/18/12 Analysis Date..: 06/26/12
Prep Batch #...: 2170084
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2-Chlorophenol	ND	98.9	95.4	ug/L	96		SW846 8040A
	ND	97.5	65.1	ug/L	67	38	SW846 8040A
4-Chloro-3-methylphenol	ND	98.9	106	ug/L	107		SW846 8040A
	ND	97.5	86.4	ug/L	89	20	SW846 8040A
3-Methylphenol & 4-Methylphenol	ND	98.9	102	ug/L	103		SW846 8040A
	ND	97.5	70.1	ug/L	72	37	SW846 8040A
2-Methylphenol	ND	98.9	101	ug/L	102		SW846 8040A
	ND	97.5	68.8	ug/L	71	38	SW846 8040A
2,4-Dichlorophenol	ND	98.9	106	ug/L	107		SW846 8040A
	ND	97.5	86.0	ug/L	88	20	SW846 8040A
2,6-Dichlorophenol	ND	98.9	103	ug/L	104		SW846 8040A
	ND	97.5	84.7	ug/L	87	19	SW846 8040A
2,4-Dimethylphenol	ND	98.9	101	ug/L	102		SW846 8040A
	ND	97.5	80.3	ug/L	82	23	SW846 8040A
2,4-Dinitrophenol	ND	98.9	103	ug/L	104		SW846 8040A
	ND	97.5	83.4	ug/L	86	21	SW846 8040A
4,6-Dinitro-2-methylphenol	ND	98.9	113	ug/L	114		SW846 8040A
	ND	97.5	102	ug/L	105	10	SW846 8040A
Dinoseb	ND	98.9	108	ug/L	109		SW846 8040A
	ND	97.5	94.9	ug/L	97	13	SW846 8040A
2-Nitrophenol	ND	98.9	104	ug/L	106		SW846 8040A
	ND	97.5	86.0	ug/L	88	19	SW846 8040A
4-Nitrophenol	ND	98.9	107	ug/L	108		SW846 8040A
	ND	97.5	83.7	ug/L	86	24	SW846 8040A
Pentachlorophenol	ND	98.9	133	ug/L	135		SW846 8040A
	ND	97.5	113	ug/L	116	17	SW846 8040A
Phenol	ND	98.9	101	ug/L	102		SW846 8040A
	ND	97.5	44.2	ug/L	45	78	SW846 8040A
2,3,4,6-Tetrachlorophenol	ND	98.9	107	ug/L	108		SW846 8040A
	ND	97.5	91.1	ug/L	93	16	SW846 8040A
2,4,5-Trichloro-phenol	ND	98.9	104	ug/L	105		SW846 8040A
	ND	97.5	87.0	ug/L	89	18	SW846 8040A

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT4NV1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F130419-001 MT4NV1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4,6-Trichloro-phenol	**ND**	**98.9**	**108**	**ug/L**	**109**		**SW846 8040A**
	ND	**97.5**	**91.7**	**ug/L**	**94**	**17**	**SW846 8040A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	99	(54 - 139)
	84	(54 - 139)
2-Fluorophenol	85	(34 - 121)
	27 *	(34 - 121)

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.

PESTICIDES

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWL6

GC Semivolatiles

Lot-Sample #...: F2F150423-003 **Work Order #...:** MT5TP1AA **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/19/12 **Analysis Date..:** 06/22/12
Prep Batch #...: 2171094
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	85	(56 - 136)
Decachlorobiphenyl	77	(74 - 127)

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT7GJ1AA **Matrix.....:** WATER
MB Lot-Sample #: F2F190000-094

Prep Date.....: 06/19/12
Analysis Date..: 06/22/12 **Prep Batch #...:** 2171094
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	82	(56 - 136)
Decachlorobiphenyl	70 *	(74 - 127)

NOTE(S):

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

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT7GJ1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2F190000-094
Prep Date.....: 06/19/12 **Analysis Date..:** 06/22/12
Prep Batch #...: 2171094
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aldrin	**0.500**	**0.458**	**ug/L**	**92**	**SW846 8081A**
alpha-BHC	**0.500**	**0.479**	**ug/L**	**96**	**SW846 8081A**
beta-BHC	**0.500**	**0.449**	**ug/L**	**90**	**SW846 8081A**
delta-BHC	**0.500**	**0.537**	**ug/L**	**107**	**SW846 8081A**
gamma-BHC (Lindane)	**0.500**	**0.457**	**ug/L**	**91**	**SW846 8081A**
4,4'-DDD	**0.500**	**0.495**	**ug/L**	**99**	**SW846 8081A**
4,4'-DDE	**0.500**	**0.456**	**ug/L**	**91**	**SW846 8081A**
4,4'-DDT	**0.500**	**0.457**	**ug/L**	**91**	**SW846 8081A**
Dieldrin	**0.500**	**0.453**	**ug/L**	**91**	**SW846 8081A**
Endosulfan I	**0.500**	**0.416**	**ug/L**	**83**	**SW846 8081A**
Endosulfan II	**0.500**	**0.415**	**ug/L**	**83**	**SW846 8081A**
Endosulfan sulfate	**0.500**	**0.438**	**ug/L**	**88**	**SW846 8081A**
Endrin	**0.500**	**0.438**	**ug/L**	**88**	**SW846 8081A**
Endrin aldehyde	**0.500**	**0.408**	**ug/L**	**82**	**SW846 8081A**
Heptachlor	**0.500**	**0.503**	**ug/L**	**101**	**SW846 8081A**
Heptachlor epoxide	**0.500**	**0.453**	**ug/L**	**91**	**SW846 8081A**
Methoxychlor	**0.500**	**0.474**	**ug/L**	**95**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	87	(68 - 123)
Decachlorobiphenyl	77	(50 - 125)

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 #...: SL1274 **Work Order #...:** MT5TP1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150423-003 MT5TP1AG-MSD
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/19/12 **Analysis Date..:** 06/22/12
Prep Batch #...: 2171094
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aldrin	ND	0.960	0.866	ug/L	90		SW846 8081A
	ND	0.942	0.865	ug/L	92	0.11	SW846 8081A
alpha-BHC	ND	0.960	0.931	ug/L	97		SW846 8081A
	ND	0.942	0.950	ug/L	101	2.0	SW846 8081A
beta-BHC	ND	0.960	0.875	ug/L	91		SW846 8081A
	ND	0.942	0.898	ug/L	95	2.6	SW846 8081A
delta-BHC	ND	0.960	1.18	ug/L	123		SW846 8081A
	ND	0.942	1.62	ug/L	171	31	SW846 8081A
	Qualifiers: N						
gamma-BHC (Lindane)	ND	0.960	0.863	ug/L	90		SW846 8081A
	ND	0.942	0.906	ug/L	96	4.9	SW846 8081A
4,4'-DDD	ND	0.960	0.957	ug/L	100		SW846 8081A
	ND	0.942	0.997	ug/L	106	4.1	SW846 8081A
4,4'-DDE	ND	0.960	0.890	ug/L	93		SW846 8081A
	ND	0.942	0.925	ug/L	98	3.8	SW846 8081A
4,4'-DDT	ND	0.960	0.818	ug/L	85		SW846 8081A
	ND	0.942	0.932	ug/L	99	13	SW846 8081A
Dieldrin	ND	0.960	0.882	ug/L	92		SW846 8081A
	ND	0.942	0.906	ug/L	96	2.7	SW846 8081A
Endosulfan I	ND	0.960	0.804	ug/L	84		SW846 8081A
	ND	0.942	0.812	ug/L	86	0.99	SW846 8081A
Endosulfan II	ND	0.960	0.753	ug/L	78		SW846 8081A
	ND	0.942	0.774	ug/L	82	2.8	SW846 8081A
Endosulfan sulfate	ND	0.960	0.848	ug/L	88		SW846 8081A
	ND	0.942	0.874	ug/L	93	3.0	SW846 8081A
Endrin	ND	0.960	0.946	ug/L	99		SW846 8081A
	ND	0.942	0.980	ug/L	104	3.5	SW846 8081A
Endrin aldehyde	ND	0.960	0.862	ug/L	90		SW846 8081A
	ND	0.942	0.905	ug/L	96	4.9	SW846 8081A
Heptachlor	ND	0.960	0.837	ug/L	87		SW846 8081A
	ND	0.942	0.860	ug/L	91	2.7	SW846 8081A
Heptachlor epoxide	ND	0.960	0.875	ug/L	91		SW846 8081A
	ND	0.942	0.896	ug/L	95	2.4	SW846 8081A
Methoxychlor	ND	0.960	0.855	ug/L	89		SW846 8081A
	ND	0.942	0.940	ug/L	100	9.5	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	86	(56 - 136)
	91	(56 - 136)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT5TP1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150423-003 MT5TP1AG-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	80	(74 - 127)
	87	(74 - 127)

NOTE(S):

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

Bold print denotes control parameters

N Spiked analyte recovery is outside stated control limits.

PCBs

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWL7

GC Semivolatiles

Lot-Sample #...: F2F150423-002 **Work Order #...:** MT5TD1AE **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/19/12 **Analysis Date..:** 06/19/12
Prep Batch #...: 2171044
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.24
Aroclor 1221	ND	1.0	ug/L	0.24
Aroclor 1232	ND	1.0	ug/L	0.24
Aroclor 1242	ND	1.0	ug/L	0.24
Aroclor 1248	ND	1.0	ug/L	0.24
Aroclor 1254	ND	1.0	ug/L	0.17
Aroclor 1260	ND	1.0	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	107	(51 - 147)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT68J1AA **Matrix.....:** WATER
MB Lot-Sample #: F2F190000-044

Prep Date.....: 06/19/12
Analysis Date..: 06/19/12 **Prep Batch #...:** 2171044
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	107	(51 - 147)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1274 **Work Order #...:** MT68J1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2F190000-044
Prep Date.....: 06/19/12 **Analysis Date..:** 06/19/12
Prep Batch #...: 2171044
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**5.00**	**4.68**	**ug/L**	**94**	**SW846 8082**
Aroclor 1260	**5.00**	**5.19**	**ug/L**	**104**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	123	(68 - 143)

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 #...: SL1274 **Work Order #...:** MT5TD1C3-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150423-002 MT5TD1C4-MSD
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/19/12 **Analysis Date..:** 06/19/12
Prep Batch #...: 2171044
Dilution Factor: 1.89

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	ND	9.46	9.30	ug/L	98		SW846 8082
	ND	9.67	8.65	ug/L	89	7.2	SW846 8082
Aroclor 1260	ND	9.46	9.61	ug/L	102		SW846 8082
	ND	9.67	9.44	ug/L	98	1.8	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	108	(51 - 147)
	113	(51 - 147)

NOTE(S):

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

Bold print denotes control parameters

PAHs

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWL6

HPLC

Lot-Sample #...: F2F150423-003 **Work Order #...:** MT5TP1AC **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/20/12 **Analysis Date..:** 06/26/12
Prep Batch #...: 2172102
Dilution Factor: 1 **Method.....:** SW846 8310

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

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

METHOD BLANK REPORT

HPLC

Client Lot #...: SL1274 **Work Order #...:** MT8CH1AA **Matrix.....:** WATER
MB Lot-Sample #: F2F200000-102

Prep Date.....: 06/20/12
Analysis Date..: 06/26/12 **Prep Batch #...:** 2172102
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	84	(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 #...: SL1274 **Work Order #...:** MT8CH1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2F200000-102
Prep Date.....: 06/20/12 **Analysis Date..:** 06/26/12
Prep Batch #...: 2172102
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	**20.0**	**15.8**	**ug/L**	**79**	**SW846 8310**
Acenaphthylene	**40.0**	**30.4**	**ug/L**	**76**	**SW846 8310**
Anthracene	**2.00**	**1.63**	**ug/L**	**81**	**SW846 8310**
Benzo(a)anthracene	**2.00**	**1.70**	**ug/L**	**85**	**SW846 8310**
Benzo(b)fluoranthene	**4.00**	**3.46**	**ug/L**	**86**	**SW846 8310**
Benzo(k)fluoranthene	**2.00**	**1.56**	**ug/L**	**78**	**SW846 8310**
Benzo(ghi)perylene	**4.00**	**3.37**	**ug/L**	**84**	**SW846 8310**
Benzo(a)pyrene	**2.00**	**1.77**	**ug/L**	**89**	**SW846 8310**
Chrysene	**2.00**	**1.68**	**ug/L**	**84**	**SW846 8310**
Dibenz(a,h)anthracene	**4.00**	**3.44**	**ug/L**	**86**	**SW846 8310**
Fluoranthene	**4.00**	**3.30**	**ug/L**	**82**	**SW846 8310**
Fluorene	**4.00**	**3.22**	**ug/L**	**81**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**2.00**	**1.70**	**ug/L**	**85**	**SW846 8310**
Naphthalene	**20.0**	**14.6**	**ug/L**	**73**	**SW846 8310**
Phenanthrene	**2.00**	**1.62**	**ug/L**	**81**	**SW846 8310**
Pyrene	**2.00**	**1.64**	**ug/L**	**82**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	90	(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 #...: SL1274 **Work Order #...:** MT5TP1AH-MS **Matrix.....:** WATER
MS Lot-Sample #: F2F150423-003 MT5TP1AJ-MSD
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12
Prep Date.....: 06/20/12 **Analysis Date..:** 06/26/12
Prep Batch #...: 2172102
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	37.8	28.5	ug/L	75		SW846 8310
	ND	38.2	29.8	ug/L	78	4.5	SW846 8310
Acenaphthylene	ND	75.6	54.7	ug/L	72		SW846 8310
	ND	76.4	57.2	ug/L	75	4.4	SW846 8310
Anthracene	ND	3.78	2.95	ug/L	78		SW846 8310
	ND	3.82	3.01	ug/L	79	1.7	SW846 8310
Benzo(a)anthracene	ND	3.78	3.06	ug/L	81		SW846 8310
	ND	3.82	3.06	ug/L	80	0.06	SW846 8310
Benzo(b)fluoranthene	ND	7.56	6.26	ug/L	83		SW846 8310
	ND	7.64	6.26	ug/L	82	0.03	SW846 8310
Benzo(k)fluoranthene	ND	3.78	2.85	ug/L	76		SW846 8310
	ND	3.82	2.87	ug/L	75	0.69	SW846 8310
Benzo(ghi)perylene	ND	7.56	6.10	ug/L	81		SW846 8310
	ND	7.64	6.02	ug/L	79	1.2	SW846 8310
Benzo(a)pyrene	ND	3.78	3.20	ug/L	85		SW846 8310
	ND	3.82	3.18	ug/L	83	0.81	SW846 8310
Chrysene	ND	3.78	3.06	ug/L	81		SW846 8310
	ND	3.82	3.07	ug/L	80	0.48	SW846 8310
Dibenz(a,h)anthracene	ND	7.56	6.24	ug/L	83		SW846 8310
	ND	7.64	6.13	ug/L	80	1.8	SW846 8310
Fluoranthene	ND	7.56	5.94	ug/L	79		SW846 8310
	ND	7.64	6.06	ug/L	79	1.8	SW846 8310
Fluorene	ND	7.56	5.81	ug/L	77		SW846 8310
	ND	7.64	6.03	ug/L	79	3.7	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	3.78	3.06	ug/L	81		SW846 8310
	ND	3.82	3.05	ug/L	80	0.45	SW846 8310
Naphthalene	ND	37.8	26.6	ug/L	70		SW846 8310
	ND	38.2	27.9	ug/L	73	4.8	SW846 8310
Phenanthrene	ND	3.78	3.00	ug/L	79		SW846 8310
	ND	3.82	3.00	ug/L	79	0.23	SW846 8310
Pyrene	ND	3.78	2.97	ug/L	79		SW846 8310
	ND	3.82	2.99	ug/L	78	0.80	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	85	(60 - 98)
	85	(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: B2KHW6

DISSOLVED Metals

Lot-Sample #...: F2F130418-001 **Matrix.....:** WATER
Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2167071						
Silver	**0.071 B**	**2.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NP1AP**
		Dilution Factor: 1		MDL.....: 0.050		
Aluminum	ND	30.0	ug/L	SW846 6020	06/15-06/19/12	MT4NP1AE
		Dilution Factor: 1		MDL.....: 12.9		
Arsenic	**3.1 B**	**10.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NP1AG**
		Dilution Factor: 1		MDL.....: 1.2		
Barium	**31.6**	**2.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NP1AH**
		Dilution Factor: 1		MDL.....: 0.22		
Beryllium	ND	0.50	ug/L	SW846 6020	06/15-06/19/12	MT4NP1AA
		Dilution Factor: 1		MDL.....: 0.35		
Boron	**27.7 B**	**50.0**	**ug/L**	**SW846 6020**	**06/15-06/20/12**	**MT4NP1AC**
		Dilution Factor: 1		MDL.....: 10.0		
Cadmium	ND	0.50	ug/L	SW846 6020	06/15-06/19/12	MT4NP1AD
		Dilution Factor: 1		MDL.....: 0.10		
Cobalt	ND	2.0	ug/L	SW846 6020	06/15-06/19/12	MT4NP1AJ
		Dilution Factor: 1		MDL.....: 0.22		
Chromium	**5.2 B**	**10.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NP1AT**
		Dilution Factor: 1		MDL.....: 3.3		
Copper	**7.3**	**1.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NP1AK**
		Dilution Factor: 1		MDL.....: 0.45		
Molybdenum	**3.4 B**	**5.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NP1AM**
		Dilution Factor: 1		MDL.....: 1.0		
Lead	**0.17 B**	**3.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NP1AL**
		Dilution Factor: 1		MDL.....: 0.17		
Antimony	ND	5.0	ug/L	SW846 6020	06/15-06/19/12	MT4NP1AF
		Dilution Factor: 1		MDL.....: 1.7		
Selenium	**1.8 B**	**5.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NP1AN**
		Dilution Factor: 1		MDL.....: 1.6		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KHW6

DISSOLVED Metals

Lot-Sample #...: F2F130418-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Tin	1.2 B	2.0	ug/L	SW846 6020	06/15-06/19/12	MT4NP1AR
		Dilution Factor: 1		MDL.....: 1.0		
Thallium	0.74 B	2.0	ug/L	SW846 6020	06/15-06/19/12	MT4NP1AQ
		Dilution Factor: 1		MDL.....: 0.55		

NOTE(S):

B Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KHW2

TOTAL Metals

Lot-Sample #...: F2F130418-002 **Matrix.....:** WATER
Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2167071						
Silver	**0.072 B**	**2.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NQ1AQ**
		Dilution Factor: 1		MDL.....: 0.050		
Aluminum	ND	30.0	ug/L	SW846 6020	06/15-06/19/12	MT4NQ1AC
		Dilution Factor: 1		MDL.....: 12.9		
Arsenic	**3.5 B**	**10.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NQ1AE**
		Dilution Factor: 1		MDL.....: 1.2		
Barium	**31.9**	**2.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NQ1AF**
		Dilution Factor: 1		MDL.....: 0.22		
Beryllium	ND	0.50	ug/L	SW846 6020	06/15-06/19/12	MT4NQ1AG
		Dilution Factor: 1		MDL.....: 0.35		
Boron	**35.7 B**	**50.0**	**ug/L**	**SW846 6020**	**06/15-06/20/12**	**MT4NQ1AH**
		Dilution Factor: 1		MDL.....: 10.0		
Cadmium	ND	0.50	ug/L	SW846 6020	06/15-06/19/12	MT4NQ1AJ
		Dilution Factor: 1		MDL.....: 0.10		
Cobalt	ND	2.0	ug/L	SW846 6020	06/15-06/19/12	MT4NQ1AK
		Dilution Factor: 1		MDL.....: 0.22		
Chromium	**6.7 B**	**10.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NQ1AU**
		Dilution Factor: 1		MDL.....: 3.3		
Copper	**4.3**	**1.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NQ1AL**
		Dilution Factor: 1		MDL.....: 0.45		
Molybdenum	**4.2 B**	**5.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NQ1AN**
		Dilution Factor: 1		MDL.....: 1.0		
Lead	**0.20 B**	**3.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NQ1AM**
		Dilution Factor: 1		MDL.....: 0.17		
Antimony	ND	5.0	ug/L	SW846 6020	06/15-06/19/12	MT4NQ1AD
		Dilution Factor: 1		MDL.....: 1.7		
Selenium	**2.0 B**	**5.0**	**ug/L**	**SW846 6020**	**06/15-06/19/12**	**MT4NQ1AP**
		Dilution Factor: 1		MDL.....: 1.6		

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KHW2

TOTAL Metals

Lot-Sample #...: F2F130418-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Tin	1.8 B	2.0	ug/L	SW846 6020	06/15-06/19/12	MT4NQ1AT
		Dilution Factor: 1		MDL.....: 1.0		
Thallium	0.88 B	2.0	ug/L	SW846 6020	06/15-06/19/12	MT4NQ1AR
		Dilution Factor: 1		MDL.....: 0.55		

NOTE(S):

B Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KHL7

TOTAL Metals

Lot-Sample #...: F2F130418-003 **Matrix.....:** WATER
Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2167069						
Antimony	ND	60.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NR1A2
		Dilution Factor: 1		MDL.....: 4.0		
Barium	**33.3 B**	**200**	**ug/L**	**SW846 6010B**	**06/15-06/21/12**	**MT4NR1A3**
		Dilution Factor: 1		MDL.....: 4.0		
Beryllium	ND	5.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NR1A4
		Dilution Factor: 1		MDL.....: 0.61		
Cadmium	ND	5.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NR1A5
		Dilution Factor: 1		MDL.....: 0.91		
Calcium	**41500**	**5000**	**ug/L**	**SW846 6010B**	**06/15-06/21/12**	**MT4NR1A6**
		Dilution Factor: 1		MDL.....: 106		
Chromium	**32.5**	**10.0**	**ug/L**	**SW846 6010B**	**06/15-06/21/12**	**MT4NR1A7**
		Dilution Factor: 1		MDL.....: 3.1		
Cobalt	ND	50.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NR1A8
		Dilution Factor: 1		MDL.....: 4.0		
Copper	ND	25.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NR1A9
		Dilution Factor: 1		MDL.....: 4.6		
Iron	ND	100	ug/L	SW846 6010B	06/15-06/21/12	MT4NR1CA
		Dilution Factor: 1		MDL.....: 28.2		
Magnesium	**11000**	**5000**	**ug/L**	**SW846 6010B**	**06/15-06/21/12**	**MT4NR1CC**
		Dilution Factor: 1		MDL.....: 132		
Manganese	ND	15.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NR1CD
		Dilution Factor: 1		MDL.....: 3.3		
Nickel	ND	40.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NR1CE
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	**4940 B**	**5000**	**ug/L**	**SW846 6010B**	**06/15-06/21/12**	**MT4NR1CF**
		Dilution Factor: 1		MDL.....: 1650		
Silver	ND	10.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NR1CG
		Dilution Factor: 1		MDL.....: 6.0		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KHL7

TOTAL Metals

Lot-Sample #...: F2F130418-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	10100	5000	ug/L	SW846 6010B	06/15-06/21/12	MT4NR1CH
		Dilution Factor: 1		MDL.....: 324		
Strontium	250	50.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NR1CJ
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	12.9 B	50.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NR1CK
		Dilution Factor: 1		MDL.....: 4.1		
Zinc	10.5 B	20.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NR1CL
		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: B2KHM1

DISSOLVED Metals

Lot-Sample #...: F2F130418-004 **Matrix.....:** WATER
Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2167069						
Antimony	ND	60.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NT1AA
		Dilution Factor: 1		MDL.....: 4.0		
Barium	**33.9 B**	**200**	**ug/L**	**SW846 6010B**	**06/15-06/21/12**	**MT4NT1AC**
		Dilution Factor: 1		MDL.....: 4.0		
Beryllium	ND	5.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NT1AD
		Dilution Factor: 1		MDL.....: 0.61		
Cadmium	ND	5.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NT1AE
		Dilution Factor: 1		MDL.....: 0.91		
Calcium	**41300**	**5000**	**ug/L**	**SW846 6010B**	**06/15-06/21/12**	**MT4NT1AF**
		Dilution Factor: 1		MDL.....: 106		
Chromium	**31.9**	**10.0**	**ug/L**	**SW846 6010B**	**06/15-06/21/12**	**MT4NT1AG**
		Dilution Factor: 1		MDL.....: 3.1		
Cobalt	ND	50.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NT1AH
		Dilution Factor: 1		MDL.....: 4.0		
Copper	ND	25.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NT1AJ
		Dilution Factor: 1		MDL.....: 4.6		
Iron	ND	100	ug/L	SW846 6010B	06/15-06/21/12	MT4NT1AK
		Dilution Factor: 1		MDL.....: 28.2		
Magnesium	**11200**	**5000**	**ug/L**	**SW846 6010B**	**06/15-06/21/12**	**MT4NT1AL**
		Dilution Factor: 1		MDL.....: 132		
Manganese	ND	15.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NT1AM
		Dilution Factor: 1		MDL.....: 3.3		
Nickel	ND	40.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NT1AN
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	**5130**	**5000**	**ug/L**	**SW846 6010B**	**06/15-06/21/12**	**MT4NT1AP**
		Dilution Factor: 1		MDL.....: 1650		
Silver	ND	10.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NT1AQ
		Dilution Factor: 1		MDL.....: 6.0		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KHM1

DISSOLVED Metals

Lot-Sample #...: F2F130418-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	10300	5000	ug/L	SW846 6010B	06/15-06/21/12	MT4NT1AR
		Dilution Factor: 1		MDL.....: 324		
Strontium	256	50.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NT1AT
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	10.4 B	50.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NT1AU
		Dilution Factor: 1		MDL.....: 4.1		
Zinc	10.9 B	20.0	ug/L	SW846 6010B	06/15-06/21/12	MT4NT1AV
		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: B2KWM1

DISSOLVED Metals

Lot-Sample #...: F2F150423-001 **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2171105						
Antimony	**4.2 B**	**60.0**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TC1AA**
		Dilution Factor: 1		MDL.....: 4.0		
Barium	**54.6 B**	**200**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TC1AC**
		Dilution Factor: 1		MDL.....: 4.0		
Beryllium	ND	5.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TC1AD
		Dilution Factor: 1		MDL.....: 0.61		
Cadmium	ND	5.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TC1AE
		Dilution Factor: 1		MDL.....: 0.91		
Calcium	**105000 N,D**	**25000**	**ug/L**	**SW846 6010B**	**06/19-06/22/12**	**MT5TC1AF**
		Dilution Factor: 5		MDL.....: 530		
Chromium	ND	10.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TC1AG
		Dilution Factor: 1		MDL.....: 3.1		
Cobalt	ND	50.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TC1AH
		Dilution Factor: 1		MDL.....: 4.0		
Copper	ND	25.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TC1AJ
		Dilution Factor: 1		MDL.....: 4.6		
Iron	ND	100	ug/L	SW846 6010B	06/19-06/21/12	MT5TC1AK
		Dilution Factor: 1		MDL.....: 28.2		
Magnesium	**15800**	**5000**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TC1AL**
		Dilution Factor: 1		MDL.....: 132		
Manganese	ND	15.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TC1AM
		Dilution Factor: 1		MDL.....: 3.3		
Nickel	ND	40.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TC1AN
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	**2670 B**	**5000**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TC1AP**
		Dilution Factor: 1		MDL.....: 1650		
Silver	ND	10.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TC1AQ
		Dilution Factor: 1		MDL.....: 6.0		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWM1

DISSOLVED Metals

Lot-Sample #...: F2F150423-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	**5420**	**5000**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TC1AR**
		Dilution Factor: 1		MDL.....: 324		
Strontium	381 D	**250**	**ug/L**	**SW846 6010B**	**06/19-06/22/12**	**MT5TC1AT**
		Dilution Factor: 5		MDL.....: 2.7		
Vanadium	ND	50.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TC1AU
		Dilution Factor: 1		MDL.....: 4.1		
Zinc	**7.7 B**	**20.0**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TC1AV**
		Dilution Factor: 1		MDL.....: 7.0		
Prep Batch #...: 2171106						
Silver	ND	2.0	ug/L	SW846 6020	06/19-06/21/12	MT5TC1CJ
		Dilution Factor: 1		MDL.....: 0.050		
Aluminum	ND	30.0	ug/L	SW846 6020	06/19-06/23/12	MT5TC1AX
		Dilution Factor: 1		MDL.....: 12.9		
Arsenic	ND	10.0	ug/L	SW846 6020	06/19-06/23/12	MT5TC1A0
		Dilution Factor: 1		MDL.....: 1.2		
Barium	**56.2**	**2.0**	**ug/L**	**SW846 6020**	**06/19-06/23/12**	**MT5TC1A1**
		Dilution Factor: 1		MDL.....: 0.22		
Beryllium	ND	0.50	ug/L	SW846 6020	06/19-06/23/12	MT5TC1A2
		Dilution Factor: 1		MDL.....: 0.35		
Boron	**18.7 B**	**50.0**	**ug/L**	**SW846 6020**	**06/19-06/21/12**	**MT5TC1A3**
		Dilution Factor: 1		MDL.....: 10.0		
Cadmium	ND	0.50	ug/L	SW846 6020	06/19-06/23/12	MT5TC1A4
		Dilution Factor: 1		MDL.....: 0.10		
Cobalt	ND	2.0	ug/L	SW846 6020	06/19-06/23/12	MT5TC1A5
		Dilution Factor: 1		MDL.....: 0.22		
Chromium	**3.8 B**	**10.0**	**ug/L**	**SW846 6020**	**06/19-06/23/12**	**MT5TC1A6**
		Dilution Factor: 1		MDL.....: 3.3		
Copper	**0.47 B**	**1.0**	**ug/L**	**SW846 6020**	**06/19-06/23/12**	**MT5TC1A7**
		Dilution Factor: 1		MDL.....: 0.45		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWM1

DISSOLVED Metals

Lot-Sample #...: F2F150423-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	50.0	ug/L	SW846 6020	06/19-06/23/12	MT5TC1A8
		Dilution Factor: 1		MDL.....: 20.4		
Magnesium	**15600**	**50.0**	**ug/L**	**SW846 6020**	**06/19-06/23/12**	**MT5TC1A9**
		Dilution Factor: 1		MDL.....: 5.6		
Manganese	**0.28 B**	**2.0**	**ug/L**	**SW846 6020**	**06/19-06/23/12**	**MT5TC1CA**
		Dilution Factor: 1		MDL.....: 0.24		
Molybdenum	**3.4 B**	**5.0**	**ug/L**	**SW846 6020**	**06/19-06/23/12**	**MT5TC1CC**
		Dilution Factor: 1		MDL.....: 1.0		
Lead	ND	3.0	ug/L	SW846 6020	06/19-06/23/12	MT5TC1CD
		Dilution Factor: 1		MDL.....: 0.17		
Antimony	ND	5.0	ug/L	SW846 6020	06/19-06/23/12	MT5TC1CE
		Dilution Factor: 1		MDL.....: 1.7		
Selenium	**2.3 B**	**5.0**	**ug/L**	**SW846 6020**	**06/19-06/23/12**	**MT5TC1CF**
		Dilution Factor: 1		MDL.....: 1.6		
Tin	ND	2.0	ug/L	SW846 6020	06/19-06/23/12	MT5TC1CG
		Dilution Factor: 1		MDL.....: 1.0		
Thallium	**0.69 B**	**2.0**	**ug/L**	**SW846 6020**	**06/19-06/23/12**	**MT5TC1CH**
		Dilution Factor: 1		MDL.....: 0.55		
Prep Batch #...: 2172015						
Mercury	ND	0.20	ug/L	SW846 7470A	06/20/12	MT5TC1AW
		Dilution Factor: 1		MDL.....: 0.060		

NOTE(S):

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWL7

TOTAL Metals

Lot-Sample #...: F2F150423-002 **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2171105						
Antimony	**6.7 B**	**60.0**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TD1A3**
		Dilution Factor: 1		MDL.....: 4.0		
Barium	**55.4 B**	**200**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TD1A4**
		Dilution Factor: 1		MDL.....: 4.0		
Beryllium	ND	5.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TD1A5
		Dilution Factor: 1		MDL.....: 0.61		
Cadmium	ND	5.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TD1A6
		Dilution Factor: 1		MDL.....: 0.91		
Calcium	**104000 N,D**	**25000**	**ug/L**	**SW846 6010B**	**06/19-06/22/12**	**MT5TD1A7**
		Dilution Factor: 5		MDL.....: 530		
Chromium	**4.1 B**	**10.0**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TD1A8**
		Dilution Factor: 1		MDL.....: 3.1		
Cobalt	ND	50.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TD1A9
		Dilution Factor: 1		MDL.....: 4.0		
Copper	**4.6 B**	**25.0**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TD1CA**
		Dilution Factor: 1		MDL.....: 4.6		
Iron	ND	100	ug/L	SW846 6010B	06/19-06/21/12	MT5TD1CC
		Dilution Factor: 1		MDL.....: 28.2		
Magnesium	**16200**	**5000**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TD1CD**
		Dilution Factor: 1		MDL.....: 132		
Manganese	ND	15.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TD1CE
		Dilution Factor: 1		MDL.....: 3.3		
Nickel	ND	40.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TD1CF
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	**2790 B**	**5000**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TD1CG**
		Dilution Factor: 1		MDL.....: 1650		
Silver	ND	10.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TD1CH
		Dilution Factor: 1		MDL.....: 6.0		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWL7

TOTAL Metals

Lot-Sample #...: F2F150423-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	**5540**	**5000**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TD1CJ**
		Dilution Factor: 1		MDL.....: 324		
Strontium	380 D	**250**	**ug/L**	**SW846 6010B**	**06/19-06/22/12**	**MT5TD1CK**
		Dilution Factor: 5		MDL.....: 2.7		
Vanadium	ND	50.0	ug/L	SW846 6010B	06/19-06/21/12	MT5TD1CL
		Dilution Factor: 1		MDL.....: 4.1		
Zinc	**10.4 B**	**20.0**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT5TD1CM**
		Dilution Factor: 1		MDL.....: 7.0		
Prep Batch #...: 2171106						
Silver	**0.074 B**	**2.0**	**ug/L**	**SW846 6020**	**06/19-06/21/12**	**MT5TD1AX**
		Dilution Factor: 1		MDL.....: 0.050		
Aluminum	**14.0 B**	**30.0**	**ug/L**	**SW846 6020**	**06/19-06/23/12**	**MT5TD1AF**
		Dilution Factor: 1		MDL.....: 12.9		
Arsenic	ND	10.0	ug/L	SW846 6020	06/19-06/23/12	MT5TD1AH
		Dilution Factor: 1		MDL.....: 1.2		
Barium	**56.8**	**2.0**	**ug/L**	**SW846 6020**	**06/19-06/23/12**	**MT5TD1AJ**
		Dilution Factor: 1		MDL.....: 0.22		
Beryllium	ND	0.50	ug/L	SW846 6020	06/19-06/23/12	MT5TD1AK
		Dilution Factor: 1		MDL.....: 0.35		
Boron	**20.6 B**	**50.0**	**ug/L**	**SW846 6020**	**06/19-06/21/12**	**MT5TD1AL**
		Dilution Factor: 1		MDL.....: 10.0		
Cadmium	ND	0.50	ug/L	SW846 6020	06/19-06/23/12	MT5TD1AM
		Dilution Factor: 1		MDL.....: 0.10		
Cobalt	ND	2.0	ug/L	SW846 6020	06/19-06/23/12	MT5TD1AN
		Dilution Factor: 1		MDL.....: 0.22		
Chromium	**3.9 B**	**10.0**	**ug/L**	**SW846 6020**	**06/19-06/23/12**	**MT5TD1A2**
		Dilution Factor: 1		MDL.....: 3.3		
Copper	**0.53 B**	**1.0**	**ug/L**	**SW846 6020**	**06/19-06/23/12**	**MT5TD1AP**
		Dilution Factor: 1		MDL.....: 0.45		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWL7

TOTAL Metals

Lot-Sample #...: F2F150423-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	50.0	ug/L	SW846 6020	06/19-06/23/12	MT5TD1AQ
		Dilution Factor: 1		MDL.....: 20.4		
Magnesium	15800	50.0	ug/L	SW846 6020	06/19-06/23/12	MT5TD1AT
		Dilution Factor: 1		MDL.....: 5.6		
Manganese	0.42 B	2.0	ug/L	SW846 6020	06/19-06/23/12	MT5TD1AU
		Dilution Factor: 1		MDL.....: 0.24		
Molybdenum	3.5 B	5.0	ug/L	SW846 6020	06/19-06/23/12	MT5TD1AV
		Dilution Factor: 1		MDL.....: 1.0		
Lead	0.21 B	3.0	ug/L	SW846 6020	06/19-06/23/12	MT5TD1AR
		Dilution Factor: 1		MDL.....: 0.17		
Antimony	ND	5.0	ug/L	SW846 6020	06/19-06/23/12	MT5TD1AG
		Dilution Factor: 1		MDL.....: 1.7		
Selenium	2.7 B	5.0	ug/L	SW846 6020	06/19-06/23/12	MT5TD1AW
		Dilution Factor: 1		MDL.....: 1.6		
Tin	1.4 B	2.0	ug/L	SW846 6020	06/19-06/23/12	MT5TD1A1
		Dilution Factor: 1		MDL.....: 1.0		
Thallium	1.1 B	2.0	ug/L	SW846 6020	06/19-06/23/12	MT5TD1A0
		Dilution Factor: 1		MDL.....: 0.55		
Prep Batch #...: 2172015						
Mercury	ND	0.20	ug/L	SW846 7470A	06/20/12	MT5TD1CN
		Dilution Factor: 1		MDL.....: 0.060		

NOTE(S):

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F2F150000-069 **Prep Batch #...:** 2167069						
Antimony	ND	60.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CH
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CJ
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CK
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CL
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CM
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CN
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CP
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CQ
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CR
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CT
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CU
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CV
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CW
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1CX
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1C0
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Strontium	ND	50.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1C1
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1C2
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1C3
		Dilution Factor: 1				

MB Lot-Sample #: F2F150000-071 **Prep Batch #...:** 2167071

Aluminum	ND	30.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CD
		Dilution Factor: 1				
Antimony	ND	5.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CE
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CF
		Dilution Factor: 1				
Barium	ND	2.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CG
		Dilution Factor: 1				
Beryllium	ND	0.50	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CH
		Dilution Factor: 1				
Boron	ND	50.0	ug/L	SW846 6020	06/15-06/20/12	MT5WP1CJ
		Dilution Factor: 1				
Cadmium	ND	0.50	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CK
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CV
		Dilution Factor: 1				
Cobalt	ND	2.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CL
		Dilution Factor: 1				
Copper	ND	1.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CM
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CN
		Dilution Factor: 1				
Molybdenum	ND	5.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CP
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	5.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CQ
		Dilution Factor: 1				
Silver	ND	2.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CR
		Dilution Factor: 1				
Thallium	ND	2.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CT
		Dilution Factor: 1				
Tin	ND	2.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1CU
		Dilution Factor: 1				

MB Lot-Sample #: F2F190000-105 **Prep Batch #...:** 2171105

Antimony	ND	60.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CH
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CJ
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CK
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CL
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CM
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CN
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CP
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CQ
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CR
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CT
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CU
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	ND	40.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CV
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CW
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1CX
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1C0
		Dilution Factor: 1				
Strontium	**0.90 B**	**50.0**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT7JG1C1**
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1C2
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1C3
		Dilution Factor: 1				

MB Lot-Sample #: F2F190000-106 **Prep Batch #...:** 2171106

Aluminum	ND	30.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1CK
		Dilution Factor: 1				
Antimony	ND	5.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1CL
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1CM
		Dilution Factor: 1				
Barium	ND	2.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1CN
		Dilution Factor: 1				
Beryllium	ND	0.50	ug/L	SW846 6020	06/19-06/23/12	MT7JK1CP
		Dilution Factor: 1				
Boron	ND	50.0	ug/L	SW846 6020	06/19-06/21/12	MT7JK1CQ
		Dilution Factor: 1				
Cadmium	ND	0.50	ug/L	SW846 6020	06/19-06/23/12	MT7JK1CR
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1C6
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	2.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1CT
		Dilution Factor: 1				
Copper	ND	1.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1CU
		Dilution Factor: 1				
Iron	ND	50.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1CV
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1CW
		Dilution Factor: 1				
Magnesium	ND	50.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1CX
		Dilution Factor: 1				
Manganese	ND	2.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1C0
		Dilution Factor: 1				
Molybdenum	ND	5.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1C1
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1C2
		Dilution Factor: 1				
Silver	ND	2.0	ug/L	SW846 6020	06/19-06/21/12	MT7JK1C3
		Dilution Factor: 1				
Thallium	ND	2.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1C4
		Dilution Factor: 1				
Tin	ND	2.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1C5
		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 #...: SL1274 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F2F150000-069 **Prep Batch #...:** 2167069						
Antimony	ND	60.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AA
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AC
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AD
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AE
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AF
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AG
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AH
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AJ
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AK
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AL
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AM
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AN
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AP
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AQ
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AR
		Dilution Factor: 1				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Strontium	ND	50.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AT
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AU
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	06/15-06/21/12	MT5WF1AV
		Dilution Factor: 1				

MB Lot-Sample #: F2F150000-071 **Prep Batch #...:** 2167071

Aluminum	ND	30.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AE
		Dilution Factor: 1				
Antimony	ND	5.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AF
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AG
		Dilution Factor: 1				
Barium	ND	2.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AH
		Dilution Factor: 1				
Beryllium	ND	0.50	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AA
		Dilution Factor: 1				
Boron	ND	50.0	ug/L	SW846 6020	06/15-06/20/12	MT5WP1AC
		Dilution Factor: 1				
Cadmium	ND	0.50	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AD
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AT
		Dilution Factor: 1				
Cobalt	ND	2.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AJ
		Dilution Factor: 1				
Copper	ND	1.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AK
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AL
		Dilution Factor: 1				
Molybdenum	ND	5.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AM
		Dilution Factor: 1				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	5.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AN
		Dilution Factor: 1				
Silver	ND	2.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AP
		Dilution Factor: 1				
Thallium	ND	2.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AQ
		Dilution Factor: 1				
Tin	ND	2.0	ug/L	SW846 6020	06/15-06/19/12	MT5WP1AR
		Dilution Factor: 1				

MB Lot-Sample #: F2F190000-105 **Prep Batch #...:** 2171105

Antimony	ND	60.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AA
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AC
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AD
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AE
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AF
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AG
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AH
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AJ
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AK
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AL
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AM
		Dilution Factor: 1				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	ND	40.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AN
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AP
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AQ
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AR
		Dilution Factor: 1				
Strontium	**0.90 B**	**50.0**	**ug/L**	**SW846 6010B**	**06/19-06/21/12**	**MT7JG1AT**
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AU
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	06/19-06/21/12	MT7JG1AV
		Dilution Factor: 1				

MB Lot-Sample #: F2F190000-106 **Prep Batch #...:** 2171106

Aluminum	ND	30.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AA
		Dilution Factor: 1				
Antimony	ND	5.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AR
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AC
		Dilution Factor: 1				
Barium	ND	2.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AD
		Dilution Factor: 1				
Beryllium	ND	0.50	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AE
		Dilution Factor: 1				
Boron	ND	50.0	ug/L	SW846 6020	06/19-06/21/12	MT7JK1AF
		Dilution Factor: 1				
Cadmium	ND	0.50	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AG
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AJ
		Dilution Factor: 1				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	2.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AH
		Dilution Factor: 1				
Copper	ND	1.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AK
		Dilution Factor: 1				
Iron	ND	50.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AL
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AQ
		Dilution Factor: 1				
Magnesium	ND	50.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AM
		Dilution Factor: 1				
Manganese	ND	2.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AN
		Dilution Factor: 1				
Molybdenum	ND	5.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AP
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AT
		Dilution Factor: 1				
Silver	ND	2.0	ug/L	SW846 6020	06/19-06/21/12	MT7JK1AW
		Dilution Factor: 1				
Thallium	ND	2.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AV
		Dilution Factor: 1				
Tin	ND	2.0	ug/L	SW846 6020	06/19-06/23/12	MT7JK1AU
		Dilution Factor: 1				

MB Lot-Sample #: F2F200000-015 **Prep Batch #...:** 2172015

Mercury	ND	0.20	ug/L	SW846 7470A	06/20/12	MT72T1AA
		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 #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F2F150000-069 **Prep Batch #...:** 2167069							
Antimony	500	545	ug/L	109	SW846 6010B	06/15-06/21/12	MT5WF1C4
			Dilution Factor: 1				
Barium	1000	1020	ug/L	102	SW846 6010B	06/15-06/21/12	MT5WF1C5
			Dilution Factor: 1				
Beryllium	1000	1020	ug/L	102	SW846 6010B	06/15-06/21/12	MT5WF1C6
			Dilution Factor: 1				
Cadmium	1000	1060	ug/L	106	SW846 6010B	06/15-06/21/12	MT5WF1C7
			Dilution Factor: 1				
Calcium	10000	10600	ug/L	106	SW846 6010B	06/15-06/21/12	MT5WF1C8
			Dilution Factor: 1				
Chromium	1000	1050	ug/L	105	SW846 6010B	06/15-06/21/12	MT5WF1C9
			Dilution Factor: 1				
Cobalt	1000	1070	ug/L	107	SW846 6010B	06/15-06/21/12	MT5WF1DA
			Dilution Factor: 1				
Copper	1000	1090	ug/L	109	SW846 6010B	06/15-06/21/12	MT5WF1DC
			Dilution Factor: 1				
Iron	10000	10400	ug/L	104	SW846 6010B	06/15-06/21/12	MT5WF1DD
			Dilution Factor: 1				
Magnesium	10000	10500	ug/L	105	SW846 6010B	06/15-06/21/12	MT5WF1DE
			Dilution Factor: 1				
Manganese	1000	1050	ug/L	105	SW846 6010B	06/15-06/21/12	MT5WF1DF
			Dilution Factor: 1				
Nickel	1000	1100	ug/L	110	SW846 6010B	06/15-06/21/12	MT5WF1DG
			Dilution Factor: 1				
Potassium	10000	10100	ug/L	101	SW846 6010B	06/15-06/21/12	MT5WF1DH
			Dilution Factor: 1				
Silver	100	110	ug/L	110	SW846 6010B	06/15-06/21/12	MT5WF1DJ
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	10000	10100	ug/L	101	SW846 6010B	06/15-06/21/12	MT5WF1DK
			Dilution Factor: 1				
Strontium	1000	1050	ug/L	105	SW846 6010B	06/15-06/21/12	MT5WF1DL
			Dilution Factor: 1				
Vanadium	1000	1010	ug/L	101	SW846 6010B	06/15-06/21/12	MT5WF1DM
			Dilution Factor: 1				
Zinc	1000	1060	ug/L	106	SW846 6010B	06/15-06/21/12	MT5WF1DN
			Dilution Factor: 1				
LCS Lot-Sample#: F2F150000-071 **Prep Batch #...:** 2167071							
Aluminum	10000	9860	ug/L	99	SW846 6020	06/15-06/19/12	MT5WP1CW
			Dilution Factor: 1				
Antimony	500	507	ug/L	101	SW846 6020	06/15-06/19/12	MT5WP1CX
			Dilution Factor: 1				
Arsenic	1000	1020	ug/L	102	SW846 6020	06/15-06/19/12	MT5WP1C0
			Dilution Factor: 1				
Barium	1000	1030	ug/L	103	SW846 6020	06/15-06/19/12	MT5WP1C1
			Dilution Factor: 1				
Beryllium	1000	1070	ug/L	107	SW846 6020	06/15-06/19/12	MT5WP1C2
			Dilution Factor: 1				
Boron	1000	1090	ug/L	109	SW846 6020	06/15-06/20/12	MT5WP1C3
			Dilution Factor: 1				
Cadmium	1000	1020	ug/L	102	SW846 6020	06/15-06/19/12	MT5WP1C4
			Dilution Factor: 1				
Cobalt	1000	1010	ug/L	101	SW846 6020	06/15-06/19/12	MT5WP1C5
			Dilution Factor: 1				
Copper	1000	985	ug/L	98	SW846 6020	06/15-06/19/12	MT5WP1C6
			Dilution Factor: 1				
Lead	1000	955	ug/L	95	SW846 6020	06/15-06/19/12	MT5WP1C7
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum	1000	1050	ug/L	105	SW846 6020	06/15-06/19/12	MT5WP1C8
			Dilution Factor: 1				
Selenium	1000	1010	ug/L	101	SW846 6020	06/15-06/19/12	MT5WP1C9
			Dilution Factor: 1				
Silver	100	106	ug/L	106	SW846 6020	06/15-06/19/12	MT5WP1DA
			Dilution Factor: 1				
Thallium	200	192	ug/L	96	SW846 6020	06/15-06/19/12	MT5WP1DC
			Dilution Factor: 1				
Tin	1000	1030	ug/L	103	SW846 6020	06/15-06/19/12	MT5WP1DD
			Dilution Factor: 1				
Chromium	1000	962	ug/L	96	SW846 6020	06/15-06/19/12	MT5WP1DE
			Dilution Factor: 1				
LCS Lot-Sample#: F2F190000-105 **Prep Batch #...:** 2171105							
Antimony	500	535	ug/L	107	SW846 6010B	06/19-06/21/12	MT7JG1C4
			Dilution Factor: 1				
Barium	1000	1010	ug/L	101	SW846 6010B	06/19-06/21/12	MT7JG1C5
			Dilution Factor: 1				
Beryllium	1000	1010	ug/L	101	SW846 6010B	06/19-06/21/12	MT7JG1C6
			Dilution Factor: 1				
Cadmium	1000	1040	ug/L	104	SW846 6010B	06/19-06/21/12	MT7JG1C7
			Dilution Factor: 1				
Calcium	10000	10500	ug/L	105	SW846 6010B	06/19-06/21/12	MT7JG1C8
			Dilution Factor: 1				
Chromium	1000	1050	ug/L	105	SW846 6010B	06/19-06/21/12	MT7JG1C9
			Dilution Factor: 1				
Cobalt	1000	1040	ug/L	104	SW846 6010B	06/19-06/21/12	MT7JG1DA
			Dilution Factor: 1				
Copper	1000	1070	ug/L	107	SW846 6010B	06/19-06/21/12	MT7JG1DC
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	10000	10300	ug/L	103	SW846 6010B	06/19-06/21/12	MT7JG1DD
			Dilution Factor: 1				
Magnesium	10000	10400	ug/L	104	SW846 6010B	06/19-06/21/12	MT7JG1DE
			Dilution Factor: 1				
Manganese	1000	1040	ug/L	104	SW846 6010B	06/19-06/21/12	MT7JG1DF
			Dilution Factor: 1				
Nickel	1000	1080	ug/L	108	SW846 6010B	06/19-06/21/12	MT7JG1DG
			Dilution Factor: 1				
Potassium	10000	10100	ug/L	101	SW846 6010B	06/19-06/21/12	MT7JG1DH
			Dilution Factor: 1				
Silver	100	109	ug/L	109	SW846 6010B	06/19-06/21/12	MT7JG1DJ
			Dilution Factor: 1				
Sodium	10000	9900	ug/L	99	SW846 6010B	06/19-06/21/12	MT7JG1DK
			Dilution Factor: 1				
Strontium	1000	1040	ug/L	104	SW846 6010B	06/19-06/21/12	MT7JG1DL
			Dilution Factor: 1				
Vanadium	1000	986	ug/L	99	SW846 6010B	06/19-06/21/12	MT7JG1DM
			Dilution Factor: 1				
Zinc	1000	1040	ug/L	104	SW846 6010B	06/19-06/21/12	MT7JG1DN
			Dilution Factor: 1				
LCS Lot-Sample#: F2F190000-106 **Prep Batch #...:** 2171106							
Aluminum	10000	9480	ug/L	95	SW846 6020	06/19-06/23/12	MT7JK1C7
			Dilution Factor: 1				
Antimony	500	491	ug/L	98	SW846 6020	06/19-06/23/12	MT7JK1C8
			Dilution Factor: 1				
Arsenic	1000	1040	ug/L	104	SW846 6020	06/19-06/23/12	MT7JK1C9
			Dilution Factor: 1				
Barium	1000	934	ug/L	93	SW846 6020	06/19-06/23/12	MT7JK1DA
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium	1000	1130	ug/L	113	SW846 6020	06/19-06/23/12	MT7JK1DC
			Dilution Factor: 1				
Boron	1000	915	ug/L	91	SW846 6020	06/19-06/21/12	MT7JK1DD
			Dilution Factor: 1				
Cadmium	1000	922	ug/L	92	SW846 6020	06/19-06/23/12	MT7JK1DE
			Dilution Factor: 1				
Cobalt	1000	1030	ug/L	103	SW846 6020	06/19-06/23/12	MT7JK1DF
			Dilution Factor: 1				
Copper	1000	994	ug/L	99	SW846 6020	06/19-06/23/12	MT7JK1DG
			Dilution Factor: 1				
Iron	10000	10100	ug/L	101	SW846 6020	06/19-06/23/12	MT7JK1DH
			Dilution Factor: 1				
Lead	1000	973	ug/L	97	SW846 6020	06/19-06/23/12	MT7JK1DJ
			Dilution Factor: 1				
Magnesium	10000	9910	ug/L	99	SW846 6020	06/19-06/23/12	MT7JK1DK
			Dilution Factor: 1				
Manganese	1000	986	ug/L	99	SW846 6020	06/19-06/23/12	MT7JK1DL
			Dilution Factor: 1				
Molybdenum	1000	1050	ug/L	105	SW846 6020	06/19-06/23/12	MT7JK1DM
			Dilution Factor: 1				
Selenium	1000	1050	ug/L	105	SW846 6020	06/19-06/23/12	MT7JK1DN
			Dilution Factor: 1				
Silver	100	110	ug/L	110	SW846 6020	06/19-06/21/12	MT7JK1DP
			Dilution Factor: 1				
Thallium	200	200	ug/L	100	SW846 6020	06/19-06/23/12	MT7JK1DQ
			Dilution Factor: 1				
Tin	1000	1020	ug/L	102	SW846 6020	06/19-06/23/12	MT7JK1DR
			Dilution Factor: 1				
Chromium	1000	956	ug/L	96	SW846 6020	06/19-06/23/12	MT7JK1DT
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F2F150000-069 **Prep Batch #...:** 2167069							
Antimony	500	545	ug/L	109	SW846 6010B	06/15-06/21/12	MT5WF1AW
			Dilution Factor: 1				
Barium	1000	1020	ug/L	102	SW846 6010B	06/15-06/21/12	MT5WF1AX
			Dilution Factor: 1				
Beryllium	1000	1020	ug/L	102	SW846 6010B	06/15-06/21/12	MT5WF1A0
			Dilution Factor: 1				
Cadmium	1000	1060	ug/L	106	SW846 6010B	06/15-06/21/12	MT5WF1A1
			Dilution Factor: 1				
Calcium	10000	10600	ug/L	106	SW846 6010B	06/15-06/21/12	MT5WF1A2
			Dilution Factor: 1				
Chromium	1000	1050	ug/L	105	SW846 6010B	06/15-06/21/12	MT5WF1A3
			Dilution Factor: 1				
Cobalt	1000	1070	ug/L	107	SW846 6010B	06/15-06/21/12	MT5WF1A4
			Dilution Factor: 1				
Copper	1000	1090	ug/L	109	SW846 6010B	06/15-06/21/12	MT5WF1A5
			Dilution Factor: 1				
Iron	10000	10400	ug/L	104	SW846 6010B	06/15-06/21/12	MT5WF1A6
			Dilution Factor: 1				
Magnesium	10000	10500	ug/L	105	SW846 6010B	06/15-06/21/12	MT5WF1A7
			Dilution Factor: 1				
Manganese	1000	1050	ug/L	105	SW846 6010B	06/15-06/21/12	MT5WF1A8
			Dilution Factor: 1				
Nickel	1000	1100	ug/L	110	SW846 6010B	06/15-06/21/12	MT5WF1A9
			Dilution Factor: 1				
Potassium	10000	10100	ug/L	101	SW846 6010B	06/15-06/21/12	MT5WF1CA
			Dilution Factor: 1				
Silver	100	110	ug/L	110	SW846 6010B	06/15-06/21/12	MT5WF1CC
			Dilution Factor: 1				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	10000	10100	ug/L	101	SW846 6010B	06/15-06/21/12	MT5WF1CD
			Dilution Factor: 1				
Strontium	1000	1050	ug/L	105	SW846 6010B	06/15-06/21/12	MT5WF1CE
			Dilution Factor: 1				
Vanadium	1000	1010	ug/L	101	SW846 6010B	06/15-06/21/12	MT5WF1CF
			Dilution Factor: 1				
Zinc	1000	1060	ug/L	106	SW846 6010B	06/15-06/21/12	MT5WF1CG
			Dilution Factor: 1				
LCS Lot-Sample#: F2F150000-071 **Prep Batch #...:** 2167071							
Beryllium	1000	1070	ug/L	107	SW846 6020	06/15-06/19/12	MT5WP1AU
			Dilution Factor: 1				
Boron	1000	1090	ug/L	109	SW846 6020	06/15-06/20/12	MT5WP1AV
			Dilution Factor: 1				
Cadmium	1000	1020	ug/L	102	SW846 6020	06/15-06/19/12	MT5WP1AW
			Dilution Factor: 1				
Aluminum	10000	9860	ug/L	99	SW846 6020	06/15-06/19/12	MT5WP1AX
			Dilution Factor: 1				
Antimony	500	507	ug/L	101	SW846 6020	06/15-06/19/12	MT5WP1A0
			Dilution Factor: 1				
Arsenic	1000	1020	ug/L	102	SW846 6020	06/15-06/19/12	MT5WP1A1
			Dilution Factor: 1				
Barium	1000	1030	ug/L	103	SW846 6020	06/15-06/19/12	MT5WP1A2
			Dilution Factor: 1				
Cobalt	1000	1010	ug/L	101	SW846 6020	06/15-06/19/12	MT5WP1A3
			Dilution Factor: 1				
Copper	1000	985	ug/L	98	SW846 6020	06/15-06/19/12	MT5WP1A4
			Dilution Factor: 1				
Lead	1000	955	ug/L	95	SW846 6020	06/15-06/19/12	MT5WP1A5
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum	1000	1050	ug/L	105	SW846 6020	06/15-06/19/12	MT5WP1A6
			Dilution Factor: 1				
Selenium	1000	1010	ug/L	101	SW846 6020	06/15-06/19/12	MT5WP1A7
			Dilution Factor: 1				
Silver	100	106	ug/L	106	SW846 6020	06/15-06/19/12	MT5WP1A8
			Dilution Factor: 1				
Thallium	200	192	ug/L	96	SW846 6020	06/15-06/19/12	MT5WP1A9
			Dilution Factor: 1				
Tin	1000	1030	ug/L	103	SW846 6020	06/15-06/19/12	MT5WP1CA
			Dilution Factor: 1				
Chromium	1000	962	ug/L	96	SW846 6020	06/15-06/19/12	MT5WP1CC
			Dilution Factor: 1				
LCS Lot-Sample#: F2F190000-105 **Prep Batch #...:** 2171105							
Antimony	500	535	ug/L	107	SW846 6010B	06/19-06/21/12	MT7JG1AW
			Dilution Factor: 1				
Barium	1000	1010	ug/L	101	SW846 6010B	06/19-06/21/12	MT7JG1AX
			Dilution Factor: 1				
Beryllium	1000	1010	ug/L	101	SW846 6010B	06/19-06/21/12	MT7JG1A0
			Dilution Factor: 1				
Cadmium	1000	1040	ug/L	104	SW846 6010B	06/19-06/21/12	MT7JG1A1
			Dilution Factor: 1				
Calcium	10000	10500	ug/L	105	SW846 6010B	06/19-06/21/12	MT7JG1A2
			Dilution Factor: 1				
Chromium	1000	1050	ug/L	105	SW846 6010B	06/19-06/21/12	MT7JG1A3
			Dilution Factor: 1				
Cobalt	1000	1040	ug/L	104	SW846 6010B	06/19-06/21/12	MT7JG1A4
			Dilution Factor: 1				
Copper	1000	1070	ug/L	107	SW846 6010B	06/19-06/21/12	MT7JG1A5
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	10000	10300	ug/L	103	SW846 6010B	06/19-06/21/12	MT7JG1A6
			Dilution Factor: 1				
Magnesium	10000	10400	ug/L	104	SW846 6010B	06/19-06/21/12	MT7JG1A7
			Dilution Factor: 1				
Manganese	1000	1040	ug/L	104	SW846 6010B	06/19-06/21/12	MT7JG1A8
			Dilution Factor: 1				
Nickel	1000	1080	ug/L	108	SW846 6010B	06/19-06/21/12	MT7JG1A9
			Dilution Factor: 1				
Potassium	10000	10100	ug/L	101	SW846 6010B	06/19-06/21/12	MT7JG1CA
			Dilution Factor: 1				
Silver	100	109	ug/L	109	SW846 6010B	06/19-06/21/12	MT7JG1CC
			Dilution Factor: 1				
Sodium	10000	9900	ug/L	99	SW846 6010B	06/19-06/21/12	MT7JG1CD
			Dilution Factor: 1				
Strontium	1000	1040	ug/L	104	SW846 6010B	06/19-06/21/12	MT7JG1CE
			Dilution Factor: 1				
Vanadium	1000	986	ug/L	99	SW846 6010B	06/19-06/21/12	MT7JG1CF
			Dilution Factor: 1				
Zinc	1000	1040	ug/L	104	SW846 6010B	06/19-06/21/12	MT7JG1CG
			Dilution Factor: 1				
LCS Lot-Sample#: F2F190000-106 **Prep Batch #...:** 2171106							
Aluminum	10000	9480	ug/L	95	SW846 6020	06/19-06/23/12	MT7JK1AX
			Dilution Factor: 1				
Arsenic	1000	1040	ug/L	104	SW846 6020	06/19-06/23/12	MT7JK1A0
			Dilution Factor: 1				
Barium	1000	934	ug/L	93	SW846 6020	06/19-06/23/12	MT7JK1A1
			Dilution Factor: 1				
Beryllium	1000	1130	ug/L	113	SW846 6020	06/19-06/23/12	MT7JK1A2
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Boron	1000	915	ug/L	91	SW846 6020	06/19-06/21/12	MT7JK1A3
			Dilution Factor: 1				
Cadmium	1000	922	ug/L	92	SW846 6020	06/19-06/23/12	MT7JK1A4
			Dilution Factor: 1				
Cobalt	1000	1030	ug/L	103	SW846 6020	06/19-06/23/12	MT7JK1A5
			Dilution Factor: 1				
Chromium	1000	956	ug/L	96	SW846 6020	06/19-06/23/12	MT7JK1A6
			Dilution Factor: 1				
Copper	1000	994	ug/L	99	SW846 6020	06/19-06/23/12	MT7JK1A7
			Dilution Factor: 1				
Iron	10000	10100	ug/L	101	SW846 6020	06/19-06/23/12	MT7JK1A8
			Dilution Factor: 1				
Magnesium	10000	9910	ug/L	99	SW846 6020	06/19-06/23/12	MT7JK1A9
			Dilution Factor: 1				
Manganese	1000	986	ug/L	99	SW846 6020	06/19-06/23/12	MT7JK1CA
			Dilution Factor: 1				
Molybdenum	1000	1050	ug/L	105	SW846 6020	06/19-06/23/12	MT7JK1CC
			Dilution Factor: 1				
Lead	1000	973	ug/L	97	SW846 6020	06/19-06/23/12	MT7JK1CD
			Dilution Factor: 1				
Antimony	500	491	ug/L	98	SW846 6020	06/19-06/23/12	MT7JK1CE
			Dilution Factor: 1				
Selenium	1000	1050	ug/L	105	SW846 6020	06/19-06/23/12	MT7JK1CF
			Dilution Factor: 1				
Tin	1000	1020	ug/L	102	SW846 6020	06/19-06/23/12	MT7JK1CG
			Dilution Factor: 1				
Thallium	200	200	ug/L	100	SW846 6020	06/19-06/23/12	MT7JK1CH
			Dilution Factor: 1				
Silver	100	110	ug/L	110	SW846 6020	06/19-06/21/12	MT7JK1CJ
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F2F200000-015 **Prep Batch #...:** 2172015							
Mercury	1.00	1.02	ug/L	102	SW846 7470A	06/20/12	MT72T1AC

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 #...: SL1274 **Matrix.....:** WATER
Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F2F130418-001 **Prep Batch #...:** 2167071									
Aluminum									
	ND	10000	10200	ug/L	102		SW846 6020	06/15-06/19/12	MT4NP1A2
	ND	10000	10100	ug/L	101	1.4	SW846 6020	06/15-06/19/12	MT4NP1A3
			Dilution Factor: 1						
Antimony									
	ND	500	501	ug/L	100		SW846 6020	06/15-06/19/12	MT4NP1A4
	ND	500	518	ug/L	104	3.4	SW846 6020	06/15-06/19/12	MT4NP1A5
			Dilution Factor: 1						
Arsenic									
	3.1	1000	1000	ug/L	100		SW846 6020	06/15-06/19/12	MT4NP1A6
	3.1	1000	988	ug/L	99	1.4	SW846 6020	06/15-06/19/12	MT4NP1A7
			Dilution Factor: 1						
Barium									
	31.6	1000	1040	ug/L	101		SW846 6020	06/15-06/19/12	MT4NP1A8
	31.6	1000	1090	ug/L	105	4.2	SW846 6020	06/15-06/19/12	MT4NP1A9
			Dilution Factor: 1						
Beryllium									
	ND	1000	1070	ug/L	107		SW846 6020	06/15-06/19/12	MT4NP1AU
	ND	1000	1080	ug/L	108	0.70	SW846 6020	06/15-06/19/12	MT4NP1AV
			Dilution Factor: 1						
Boron									
	27.7	1000	1090	ug/L	106		SW846 6020	06/15-06/20/12	MT4NP1AW
	27.7	1000	1140	ug/L	111	4.4	SW846 6020	06/15-06/20/12	MT4NP1AX
			Dilution Factor: 1						
Cadmium									
	ND	1000	1010	ug/L	101		SW846 6020	06/15-06/19/12	MT4NP1A0
	ND	1000	1040	ug/L	104	3.6	SW846 6020	06/15-06/19/12	MT4NP1A1
			Dilution Factor: 1						
Chromium									
	5.2	1000	1000	ug/L	100		SW846 6020	06/15-06/19/12	MT4NP1CU
	5.2	1000	997	ug/L	99	0.39	SW846 6020	06/15-06/19/12	MT4NP1CV
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER
Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt									
	ND	1000	973	ug/L	97		SW846 6020	06/15-06/19/12	MT4NP1CA
	ND	1000	962	ug/L	96	1.1	SW846 6020	06/15-06/19/12	MT4NP1CC
			Dilution Factor: 1						
Copper									
	7.3	1000	953	ug/L	95		SW846 6020	06/15-06/19/12	MT4NP1CD
	7.3	1000	946	ug/L	94	0.72	SW846 6020	06/15-06/19/12	MT4NP1CE
			Dilution Factor: 1						
Lead									
	0.17	1000	958	ug/L	96		SW846 6020	06/15-06/19/12	MT4NP1CF
	0.17	1000	1000	ug/L	100	4.4	SW846 6020	06/15-06/19/12	MT4NP1CG
			Dilution Factor: 1						
Molybdenum									
	3.4	1000	994	ug/L	99		SW846 6020	06/15-06/19/12	MT4NP1CH
	3.4	1000	1020	ug/L	102	2.8	SW846 6020	06/15-06/19/12	MT4NP1CJ
			Dilution Factor: 1						
Selenium									
	1.8	1000	986	ug/L	98		SW846 6020	06/15-06/19/12	MT4NP1CK
	1.8	1000	987	ug/L	98	0.10	SW846 6020	06/15-06/19/12	MT4NP1CL
			Dilution Factor: 1						
Silver									
	0.071	100	104	ug/L	104		SW846 6020	06/15-06/19/12	MT4NP1CM
	0.071	100	107	ug/L	107	3.2	SW846 6020	06/15-06/19/12	MT4NP1CN
			Dilution Factor: 1						
Thallium									
	0.74	200	192	ug/L	96		SW846 6020	06/15-06/19/12	MT4NP1CP
	0.74	200	203	ug/L	101	5.3	SW846 6020	06/15-06/19/12	MT4NP1CQ
			Dilution Factor: 1						
Tin									
	1.2	1000	1000	ug/L	100		SW846 6020	06/15-06/19/12	MT4NP1CR
	1.2	1000	1050	ug/L	105	4.9	SW846 6020	06/15-06/19/12	MT4NP1CT
			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 #...: SL1274 **Matrix.....:** WATER
Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F2F130418-004 **Prep Batch #...:** 2167069									
Antimony									
	ND	500	541	ug/L	108		SW846 6010B	06/15-06/21/12	MT4NT1AW
	ND	500	532	ug/L	106	1.7	SW846 6010B	06/15-06/21/12	MT4NT1AX
			Dilution Factor: 1						
Barium									
	33.9	1000	1050	ug/L	102		SW846 6010B	06/15-06/21/12	MT4NT1A0
	33.9	1000	1060	ug/L	103	0.75	SW846 6010B	06/15-06/21/12	MT4NT1A1
			Dilution Factor: 1						
Beryllium									
	ND	1000	1020	ug/L	102		SW846 6010B	06/15-06/21/12	MT4NT1A2
	ND	1000	1020	ug/L	102	0.68	SW846 6010B	06/15-06/21/12	MT4NT1A3
			Dilution Factor: 1						
Cadmium									
	ND	1000	1040	ug/L	104		SW846 6010B	06/15-06/21/12	MT4NT1A4
	ND	1000	1020	ug/L	102	1.4	SW846 6010B	06/15-06/21/12	MT4NT1A5
			Dilution Factor: 1						
Calcium									
	41300	10000	50900	ug/L	96		SW846 6010B	06/15-06/21/12	MT4NT1A6
	41300	10000	50700	ug/L	94	0.29	SW846 6010B	06/15-06/21/12	MT4NT1A7
			Dilution Factor: 1						
Chromium									
	31.9	1000	1060	ug/L	103		SW846 6010B	06/15-06/21/12	MT4NT1A8
	31.9	1000	1050	ug/L	102	0.37	SW846 6010B	06/15-06/21/12	MT4NT1A9
			Dilution Factor: 1						
Cobalt									
	ND	1000	1010	ug/L	101		SW846 6010B	06/15-06/21/12	MT4NT1CA
	ND	1000	998	ug/L	100	1.3	SW846 6010B	06/15-06/21/12	MT4NT1CC
			Dilution Factor: 1						
Copper									
	ND	1000	1050	ug/L	105		SW846 6010B	06/15-06/21/12	MT4NT1CD
	ND	1000	1040	ug/L	104	1.4	SW846 6010B	06/15-06/21/12	MT4NT1CE
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER
Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron									
	ND	10000	10300	ug/L	103		SW846 6010B	06/15-06/21/12	MT4NT1CF
	ND	10000	10400	ug/L	104	0.67	SW846 6010B	06/15-06/21/12	MT4NT1CG
			Dilution Factor: 1						
Magnesium									
	11200	10000	21400	ug/L	103		SW846 6010B	06/15-06/21/12	MT4NT1CH
	11200	10000	21700	ug/L	105	1.2	SW846 6010B	06/15-06/21/12	MT4NT1CJ
			Dilution Factor: 1						
Manganese									
	ND	1000	1040	ug/L	104		SW846 6010B	06/15-06/21/12	MT4NT1CK
	ND	1000	1050	ug/L	105	0.86	SW846 6010B	06/15-06/21/12	MT4NT1CL
			Dilution Factor: 1						
Nickel									
	ND	1000	1070	ug/L	107		SW846 6010B	06/15-06/21/12	MT4NT1CM
	ND	1000	1050	ug/L	105	1.3	SW846 6010B	06/15-06/21/12	MT4NT1CN
			Dilution Factor: 1						
Potassium									
	5130	10000	15100	ug/L	100		SW846 6010B	06/15-06/21/12	MT4NT1CP
	5130	10000	15200	ug/L	101	0.72	SW846 6010B	06/15-06/21/12	MT4NT1CQ
			Dilution Factor: 1						
Silver									
	ND	100	108	ug/L	108		SW846 6010B	06/15-06/21/12	MT4NT1CR
	ND	100	108	ug/L	108	0.18	SW846 6010B	06/15-06/21/12	MT4NT1CT
			Dilution Factor: 1						
Sodium									
	10300	10000	20000	ug/L	98		SW846 6010B	06/15-06/21/12	MT4NT1CU
	10300	10000	20200	ug/L	99	0.59	SW846 6010B	06/15-06/21/12	MT4NT1CV
			Dilution Factor: 1						
Strontium									
	256	1000	1290	ug/L	103		SW846 6010B	06/15-06/21/12	MT4NT1CW
	256	1000	1300	ug/L	105	0.92	SW846 6010B	06/15-06/21/12	MT4NT1CX
			Dilution Factor: 1						
Vanadium									
	10.4	1000	1000	ug/L	99		SW846 6010B	06/15-06/21/12	MT4NT1C0
	10.4	1000	1000	ug/L	99	0.01	SW846 6010B	06/15-06/21/12	MT4NT1C1
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER
Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	10.9	1000	1040	ug/L	103		SW846 6010B	06/15-06/21/12	MT4NT1C2
	10.9	1000	1020	ug/L	101	2.0	SW846 6010B	06/15-06/21/12	MT4NT1C3

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 #...: SL1274 **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F2F150423-001 **Prep Batch #...:** 2171105									
Antimony									
	4.2	500	534	ug/L	106		SW846 6010B	06/19-06/21/12	MT5TC1C8
	4.2	500	545	ug/L	108	2.2	SW846 6010B	06/19-06/21/12	MT5TC1C9
			Dilution Factor: 1						
Barium									
	54.6	1000	1070	ug/L	102		SW846 6010B	06/19-06/21/12	MT5TC1DA
	54.6	1000	1070	ug/L	102	0.18	SW846 6010B	06/19-06/21/12	MT5TC1DC
			Dilution Factor: 1						
Beryllium									
	ND	1000	1010	ug/L	101		SW846 6010B	06/19-06/21/12	MT5TC1DD
	ND	1000	1010	ug/L	101	0.39	SW846 6010B	06/19-06/21/12	MT5TC1DE
			Dilution Factor: 1						
Cadmium									
	ND	1000	1040	ug/L	104		SW846 6010B	06/19-06/21/12	MT5TC1DF
	ND	1000	1050	ug/L	105	1.2	SW846 6010B	06/19-06/21/12	MT5TC1DG
			Dilution Factor: 1						
Calcium									
	105000	10000	111000	ug/L	56		SW846 6010B	06/19-06/22/12	MT5TC1DH
			Qualifiers: N						
	105000	10000	118000	ug/L	126	6.2	SW846 6010B	06/19-06/22/12	MT5TC1DJ
			Qualifiers: N						
			Dilution Factor: 5						
Chromium									
	ND	1000	1020	ug/L	102		SW846 6010B	06/19-06/21/12	MT5TC1DK
	ND	1000	1040	ug/L	104	1.5	SW846 6010B	06/19-06/21/12	MT5TC1DL
			Dilution Factor: 1						
Cobalt									
	ND	1000	1020	ug/L	102		SW846 6010B	06/19-06/21/12	MT5TC1DM
	ND	1000	1030	ug/L	103	0.97	SW846 6010B	06/19-06/21/12	MT5TC1DN
			Dilution Factor: 1						
Copper									
	ND	1000	1040	ug/L	104		SW846 6010B	06/19-06/21/12	MT5TC1DP
	ND	1000	1050	ug/L	105	0.95	SW846 6010B	06/19-06/21/12	MT5TC1DQ
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron									
	ND	10000	10300	ug/L	103		SW846 6010B	06/19-06/21/12	MT5TC1DR
	ND	10000	10300	ug/L	103	0.29	SW846 6010B	06/19-06/21/12	MT5TC1DT
			Dilution Factor: 1						
Magnesium									
	15800	10000	25900	ug/L	101		SW846 6010B	06/19-06/21/12	MT5TC1DU
	15800	10000	26300	ug/L	105	1.5	SW846 6010B	06/19-06/21/12	MT5TC1DV
			Dilution Factor: 1						
Manganese									
	ND	1000	1030	ug/L	103		SW846 6010B	06/19-06/21/12	MT5TC1DW
	ND	1000	1040	ug/L	104	0.58	SW846 6010B	06/19-06/21/12	MT5TC1DX
			Dilution Factor: 1						
Nickel									
	ND	1000	1060	ug/L	106		SW846 6010B	06/19-06/21/12	MT5TC1D0
	ND	1000	1070	ug/L	107	1.1	SW846 6010B	06/19-06/21/12	MT5TC1D1
			Dilution Factor: 1						
Potassium									
	2670	10000	12800	ug/L	102		SW846 6010B	06/19-06/21/12	MT5TC1D2
	2670	10000	12900	ug/L	102	0.23	SW846 6010B	06/19-06/21/12	MT5TC1D3
			Dilution Factor: 1						
Silver									
	ND	100	108	ug/L	108		SW846 6010B	06/19-06/21/12	MT5TC1D4
	ND	100	110	ug/L	110	1.3	SW846 6010B	06/19-06/21/12	MT5TC1D5
			Dilution Factor: 1						
Sodium									
	5420	10000	15400	ug/L	100		SW846 6010B	06/19-06/21/12	MT5TC1D6
	5420	10000	15400	ug/L	100	0.38	SW846 6010B	06/19-06/21/12	MT5TC1D7
			Dilution Factor: 1						
Strontium									
	381	1000	1400	ug/L	102		SW846 6010B	06/19-06/22/12	MT5TC1D8
	381	1000	1410	ug/L	103	0.53	SW846 6010B	06/19-06/22/12	MT5TC1D9
			Dilution Factor: 5						
Vanadium									
	ND	1000	995	ug/L	99		SW846 6010B	06/19-06/21/12	MT5TC1EA
	ND	1000	994	ug/L	99	0.08	SW846 6010B	06/19-06/21/12	MT5TC1EC
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	7.7	1000	1040	ug/L	103		SW846 6010B	06/19-06/21/12	MT5TC1ED
	7.7	1000	1050	ug/L	104	0.95	SW846 6010B	06/19-06/21/12	MT5TC1EE
			Dilution Factor: 1						

MS Lot-Sample #: F2F150423-001 **Prep Batch #...:** 2171106

Aluminum									
	ND	10000	9820	ug/L	98		SW846 6020	06/19-06/23/12	MT5TC1EH
	ND	10000	9590	ug/L	96	2.4	SW846 6020	06/19-06/23/12	MT5TC1EJ
			Dilution Factor: 1						
Antimony									
	ND	500	495	ug/L	99		SW846 6020	06/19-06/23/12	MT5TC1ER
	ND	500	496	ug/L	99	0.19	SW846 6020	06/19-06/23/12	MT5TC1ET
			Dilution Factor: 1						
Arsenic									
	ND	1000	1020	ug/L	102		SW846 6020	06/19-06/23/12	MT5TC1CK
	ND	1000	988	ug/L	99	2.8	SW846 6020	06/19-06/23/12	MT5TC1CL
			Dilution Factor: 1						
Barium									
	56.2	1000	992	ug/L	94		SW846 6020	06/19-06/23/12	MT5TC1CM
	56.2	1000	974	ug/L	92	1.8	SW846 6020	06/19-06/23/12	MT5TC1CN
			Dilution Factor: 1						
Beryllium									
	ND	1000	1110	ug/L	111		SW846 6020	06/19-06/23/12	MT5TC1CP
	ND	1000	1090	ug/L	109	1.4	SW846 6020	06/19-06/23/12	MT5TC1CQ
			Dilution Factor: 1						
Boron									
	18.7	1000	943	ug/L	92		SW846 6020	06/19-06/21/12	MT5TC1CR
	18.7	1000	878	ug/L	86	7.1	SW846 6020	06/19-06/21/12	MT5TC1CT
			Dilution Factor: 1						
Cadmium									
	ND	1000	920	ug/L	92		SW846 6020	06/19-06/23/12	MT5TC1CU
	ND	1000	916	ug/L	92	0.42	SW846 6020	06/19-06/23/12	MT5TC1CV
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	3.8	1000	995	ug/L	99		SW846 6020	06/19-06/23/12	MT5TC1C0
	3.8	1000	975	ug/L	97	2.0	SW846 6020	06/19-06/23/12	MT5TC1C1
			Dilution Factor: 1						
Cobalt									
	ND	1000	970	ug/L	97		SW846 6020	06/19-06/23/12	MT5TC1CW
	ND	1000	944	ug/L	94	2.7	SW846 6020	06/19-06/23/12	MT5TC1CX
			Dilution Factor: 1						
Copper									
	0.47	1000	933	ug/L	93		SW846 6020	06/19-06/23/12	MT5TC1C2
	0.47	1000	907	ug/L	91	2.9	SW846 6020	06/19-06/23/12	MT5TC1C3
			Dilution Factor: 1						
Iron									
	ND	10000	9680	ug/L	97		SW846 6020	06/19-06/23/12	MT5TC1C4
	ND	10000	9350	ug/L	94	3.5	SW846 6020	06/19-06/23/12	MT5TC1C5
			Dilution Factor: 1						
Lead									
	ND	1000	977	ug/L	98		SW846 6020	06/19-06/23/12	MT5TC1EP
	ND	1000	967	ug/L	97	1.0	SW846 6020	06/19-06/23/12	MT5TC1EQ
			Dilution Factor: 1						
Magnesium									
	15600	10000	25500	ug/L	100		SW846 6020	06/19-06/23/12	MT5TC1C6
	15600	10000	25000	ug/L	94	2.3	SW846 6020	06/19-06/23/12	MT5TC1C7
			Dilution Factor: 1						
Manganese									
	0.28	1000	941	ug/L	94		SW846 6020	06/19-06/23/12	MT5TC1EK
	0.28	1000	919	ug/L	92	2.4	SW846 6020	06/19-06/23/12	MT5TC1EL
			Dilution Factor: 1						
Molybdenum									
	3.4	1000	1010	ug/L	100		SW846 6020	06/19-06/23/12	MT5TC1EM
	3.4	1000	1000	ug/L	100	0.62	SW846 6020	06/19-06/23/12	MT5TC1EN
			Dilution Factor: 1						
Selenium									
	2.3	1000	1010	ug/L	101		SW846 6020	06/19-06/23/12	MT5TC1EU
	2.3	1000	987	ug/L	98	2.7	SW846 6020	06/19-06/23/12	MT5TC1EV
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL1274 **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver									
	ND	100	111	ug/L	111		SW846 6020	06/19-06/21/12	MT5TC1E2
	ND	100	104	ug/L	104	6.1	SW846 6020	06/19-06/21/12	MT5TC1E3
			Dilution Factor: 1						
Thallium									
	0.69	200	202	ug/L	101		SW846 6020	06/19-06/23/12	MT5TC1E0
	0.69	200	202	ug/L	101	0.20	SW846 6020	06/19-06/23/12	MT5TC1E1
			Dilution Factor: 1						
Tin									
	ND	1000	1030	ug/L	103		SW846 6020	06/19-06/23/12	MT5TC1EW
	ND	1000	1040	ug/L	104	0.49	SW846 6020	06/19-06/23/12	MT5TC1EX
			Dilution Factor: 1						

MS Lot-Sample #: F2F150423-001 **Prep Batch #...:** 2172015

Mercury									
	ND	1.00	1.03	ug/L	103		SW846 7470A	06/20/12	MT5TC1EF
	ND	1.00	1.00	ug/L	100	2.4	SW846 7470A	06/20/12	MT5TC1EG
			Dilution Factor: 1						

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

WET CHEMISTRY

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KHW2

General Chemistry

Lot-Sample #...: F2F130418-002 **Work Order #...:** MT4NQ **Matrix.....:** WATER
Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**17.1 N,D**	**2.0**	**mg/L**	**MCAWW 300.0A**	**06/13/12**	**2165053**
		Dilution Factor: 10		MDL.....: 0.20		
Fluoride	**0.11**	**0.10**	**mg/L**	**MCAWW 300.0A**	**06/13/12**	**2165054**
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	**2.9 D**	**0.20**	**mg/L**	**MCAWW 300.0A**	**06/13/12**	**2165057**
		Dilution Factor: 10		MDL.....: 0.086		
Nitrogen, Nitrite	ND	0.020	mg/L	MCAWW 300.0A	06/13/12	2165056
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	**45.8 N,D**	**5.0**	**mg/L**	**MCAWW 300.0A**	**06/13/12**	**2165055**
		Dilution Factor: 10		MDL.....: 0.50		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KHL7

General Chemistry

Lot-Sample #...: F2F130418-003 **Work Order #...:** MT4NR **Matrix.....:** WATER
Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**11.1 N,D**	**2.0**	**mg/L**	**MCAWW 300.0A**	**06/13/12**	**2165053**
		Dilution Factor: 10		MDL.....: 0.20		
Fluoride	**0.18**	**0.10**	**mg/L**	**MCAWW 300.0A**	**06/13/12**	**2165054**
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	**3.7 D**	**0.20**	**mg/L**	**MCAWW 300.0A**	**06/13/12**	**2165057**
		Dilution Factor: 10		MDL.....: 0.086		
Nitrogen, Nitrite	ND	0.020	mg/L	MCAWW 300.0A	06/13/12	2165056
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	**36.0 N,D**	**5.0**	**mg/L**	**MCAWW 300.0A**	**06/13/12**	**2165055**
		Dilution Factor: 10		MDL.....: 0.50		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWL7

General Chemistry

Lot-Sample #...: F2F150423-002 **Work Order #...:** MT5TD **Matrix.....:** WATER
Date Sampled...: 06/14/12 **Date Received..:** 06/15/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**7.0 D**	**2.0**	**mg/L**	**MCAWW 300.0A**	**06/15/12**	**2167076**
		Dilution Factor: 10		MDL.....: 0.20		
Fluoride	**0.046 B**	**0.10**	**mg/L**	**MCAWW 300.0A**	**06/15/12**	**2167077**
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	**21.2 D**	**2.0**	**mg/L**	**MCAWW 300.0A**	**06/18/12**	**2170046**
		Dilution Factor: 100		MDL.....: 0.86		
Nitrogen, Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	06/15/12	2167079
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	**91.2 N,D**	**5.0**	**mg/L**	**MCAWW 300.0A**	**06/18/12**	**2170045**
		Dilution Factor: 10		MDL.....: 0.50		
Total Cyanide	ND	5.0	ug/L	SW846 9012	06/18-06/19/12	2170112
		Dilution Factor: 1		MDL.....: 1.5		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: MT69M1AA		MB Lot-Sample #:	F2F130000-053	
	ND	0.20	mg/L	MCAWW 300.0A	06/13/12	2165053
		Dilution Factor: 1				
Chloride		Work Order #: MT7GL1AA		MB Lot-Sample #:	F2F150000-076	
	ND	0.20	mg/L	MCAWW 300.0A	06/15/12	2167076
		Dilution Factor: 1				
Fluoride		Work Order #: MT69N1AA		MB Lot-Sample #:	F2F130000-054	
	ND	0.10	mg/L	MCAWW 300.0A	06/13/12	2165054
		Dilution Factor: 1				
Fluoride		Work Order #: MT7GN1AA		MB Lot-Sample #:	F2F150000-077	
	ND	0.10	mg/L	MCAWW 300.0A	06/15/12	2167077
		Dilution Factor: 1				
Nitrogen, Nitrate		Work Order #: MT69R1AA		MB Lot-Sample #:	F2F130000-057	
	ND	0.020	mg/L	MCAWW 300.0A	06/13/12	2165057
		Dilution Factor: 1				
Nitrogen, Nitrate		Work Order #: MT7M91AA		MB Lot-Sample #:	F2F180000-046	
	ND	0.020	mg/L	MCAWW 300.0A	06/18/12	2170046
		Dilution Factor: 1				
Nitrogen, Nitrite		Work Order #: MT69Q1AA		MB Lot-Sample #:	F2F130000-056	
	ND	0.020	mg/L	MCAWW 300.0A	06/13/12	2165056
		Dilution Factor: 1				
Nitrogen, Nitrite		Work Order #: MT7GQ1AA		MB Lot-Sample #:	F2F150000-079	
	ND	0.020	mg/L	MCAWW 300.0A	06/15/12	2167079
		Dilution Factor: 1				
Sulfate		Work Order #: MT69P1AA		MB Lot-Sample #:	F2F130000-055	
	ND	0.50	mg/L	MCAWW 300.0A	06/13/12	2165055
		Dilution Factor: 1				
Sulfate		Work Order #: MT7M81AA		MB Lot-Sample #:	F2F180000-045	
	ND	0.50	mg/L	MCAWW 300.0A	06/18/12	2170045
		Dilution Factor: 1				
Total Cyanide		Work Order #: MT7J91AA		MB Lot-Sample #:	F2F180000-112	
	ND	5.0	ug/L	SW846 9012	06/18-06/19/12	2170112
		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 #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #: MT69M1AC LCS Lot-Sample#: F2F130000-053				
	2.00	1.93	mg/L	96	MCAWW 300.0A	06/13/12	2165053
			Dilution Factor: 1				
Chloride			Work Order #: MT7GL1AC LCS Lot-Sample#: F2F150000-076				
	2.00	1.94	mg/L	97	MCAWW 300.0A	06/15/12	2167076
			Dilution Factor: 1				
Fluoride			Work Order #: MT69N1AC LCS Lot-Sample#: F2F130000-054				
	1.00	0.925	mg/L	92	MCAWW 300.0A	06/13/12	2165054
			Dilution Factor: 1				
Fluoride			Work Order #: MT7GN1AC LCS Lot-Sample#: F2F150000-077				
	1.00	0.979	mg/L	98	MCAWW 300.0A	06/15/12	2167077
			Dilution Factor: 1				
Nitrogen, Nitrate			Work Order #: MT69R1AC LCS Lot-Sample#: F2F130000-057				
	0.400	0.405	mg/L	101	MCAWW 300.0A	06/13/12	2165057
			Dilution Factor: 1				
Nitrogen, Nitrate			Work Order #: MT7M91AC LCS Lot-Sample#: F2F180000-046				
	0.400	0.390	mg/L	98	MCAWW 300.0A	06/18/12	2170046
			Dilution Factor: 1				
Nitrogen, Nitrite			Work Order #: MT69Q1AC LCS Lot-Sample#: F2F130000-056				
	0.160	0.149	mg/L	93	MCAWW 300.0A	06/13/12	2165056
			Dilution Factor: 1				
Nitrogen, Nitrite			Work Order #: MT7GQ1AC LCS Lot-Sample#: F2F150000-079				
	0.160	0.164	mg/L	102	MCAWW 300.0A	06/15/12	2167079
			Dilution Factor: 1				
Sulfate			Work Order #: MT69P1AC LCS Lot-Sample#: F2F130000-055				
	8.00	7.59	mg/L	95	MCAWW 300.0A	06/13/12	2165055
			Dilution Factor: 1				
Sulfate			Work Order #: MT7M81AC LCS Lot-Sample#: F2F180000-045				
	8.00	7.67	mg/L	96	MCAWW 300.0A	06/18/12	2170045
			Dilution Factor: 1				
Total Cyanide			Work Order #: MT7J91AC LCS Lot-Sample#: F2F180000-112				
	200	212	ug/L	106	SW846 9012	06/18-06/19/12	2170112
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL1274 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide	Work Order #: MT7J91AD LCS Lot-Sample#: F2F180000-112						
	400	415	ug/L	104	SW846 9012	06/18-06/19/12	2170112
	Dilution Factor: 1						

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL1274 **Matrix.....:** WATER
Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	PREPARATION-METHOD	ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #...: MT4NQ1A4			MS Lot-Sample #: F2F130418-002		
	17.1	20.0	40.8 N	mg/L	118	MCAWW 300.0A	06/13/12	2165053
			Dilution Factor: 10					
Chloride			Work Order #...: MT5TD1C5			MS Lot-Sample #: F2F150423-002		
	7.0	20.0	28.8	mg/L	109	MCAWW 300.0A	06/16/12	2167076
			Dilution Factor: 10					
Fluoride			Work Order #...: MT4NQ1A5			MS Lot-Sample #: F2F130418-002		
	0.11	2.00	2.23	mg/L	106	MCAWW 300.0A	06/13/12	2165054
			Dilution Factor: 1					
Fluoride			Work Order #...: MT5TD1C6			MS Lot-Sample #: F2F150423-002		
	0.046	2.00	2.13	mg/L	104	MCAWW 300.0A	06/15/12	2167077
			Dilution Factor: 1					
Nitrogen, Nitrate			Work Order #...: MT4NQ1A3			MS Lot-Sample #: F2F130418-002		
	2.9	4.00	7.19	mg/L	106	MCAWW 300.0A	06/13/12	2165057
			Dilution Factor: 10					
Nitrogen, Nitrate			Work Order #...: MT5TD1DV			MS Lot-Sample #: F2F150423-002		
	21.2	40.0	60.5	mg/L	98	MCAWW 300.0A	06/18/12	2170046
			Dilution Factor: 100					
Nitrogen, Nitrite			Work Order #...: MT4NQ1A2			MS Lot-Sample #: F2F130418-002		
	ND	0.100	0.0950	mg/L	95	MCAWW 300.0A	06/13/12	2165056
			Dilution Factor: 1					
Nitrogen, Nitrite			Work Order #...: MT5TD1C8			MS Lot-Sample #: F2F150423-002		
	ND	0.100	0.119 N	mg/L	119	MCAWW 300.0A	06/15/12	2167079
			Dilution Factor: 1					
Sulfate			Work Order #...: MT4NQ1A6			MS Lot-Sample #: F2F130418-002		
	45.8	40.0	92.8 N	mg/L	117	MCAWW 300.0A	06/13/12	2165055
			Dilution Factor: 10					
Sulfate			Work Order #...: MT5TD1DT			MS Lot-Sample #: F2F150423-002		
	91.2	40.0	127 N	mg/L	88	MCAWW 300.0A	06/18/12	2170045
			Dilution Factor: 10					
Total Cyanide			Work Order #...: MT1XF1CM			MS Lot-Sample #: F2F070427-002		
	50.6	200	267	ug/L	108	SW846 9012	06/18-06/19/12	2170112
			Dilution Factor: 1					

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MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL1274 **Matrix.....:** WATER
Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide			Work Order #...: MT5TD1DA			MS Lot-Sample #: F2F150423-002		
	ND	200	212	ug/L	106	SW846 9012	06/18-06/19/12	2170112
			Dilution Factor: 1					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F2F130418 **Work Order #...:** MT4NQ-SMP MT4NQ-DUP **Matrix.....:** WATER

Date Sampled...: 06/12/12 **Date Received..:** 06/13/12

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #: F2F130418-002		
	17.1 N,D	18.2 N,D	mg/L	6.2	(0-20)	MCAWW 300.0A	06/13/12	2165053
		Dilution Factor: 10						
Fluoride						SD Lot-Sample #: F2F130418-002		
	0.11	0.10	mg/L	6.9	(0-20)	MCAWW 300.0A	06/13/12	2165054
		Dilution Factor: 1						
Sulfate						SD Lot-Sample #: F2F130418-002		
	45.8 N,D	45.9 N,D	mg/L	0.15	(0-20)	MCAWW 300.0A	06/13/12	2165055
		Dilution Factor: 10						
Nitrogen, Nitrite						SD Lot-Sample #: F2F130418-002		
	ND	ND	mg/L	0	(0-20)	MCAWW 300.0A	06/13/12	2165056
		Dilution Factor: 1						
Nitrogen, Nitrate						SD Lot-Sample #: F2F130418-002		
	2.9 D	3.0 D	mg/L	1.2	(0-20)	MCAWW 300.0A	06/13/12	2165057
		Dilution Factor: 10						

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F2F130418 **Work Order #...:** MT5TD-SMP MT5TD-DUP **Matrix.....:** WATER

Date Sampled...: 06/14/12 **Date Received..:** 06/15/12

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #: F2F150423-002		
	7.0 D	6.7 D	mg/L	4.1	(0-20)	MCAWW 300.0A	06/15/12	2167076
			Dilution Factor: 10					
Fluoride						SD Lot-Sample #: F2F150423-002		
	0.046 B	0.072 B	mg/L	45	(0-20)	MCAWW 300.0A	06/15/12	2167077
			Dilution Factor: 1					
Sulfate						SD Lot-Sample #: F2F150423-002		
	91.2 N,D	87.2 N,D	mg/L	4.5	(0-20)	MCAWW 300.0A	06/18/12	2170045
			Dilution Factor: 10					
Nitrogen, Nitrite						SD Lot-Sample #: F2F150423-002		
	ND	ND	mg/L	0	(0-20)	MCAWW 300.0A	06/15/12	2167079
			Dilution Factor: 1					
Nitrogen, Nitrate						SD Lot-Sample #: F2F150423-002		
	21.2 D	22.8 D	mg/L	7.1	(0-20)	MCAWW 300.0A	06/18/12	2170046
			Dilution Factor: 100					
Total Cyanide						SD Lot-Sample #: F2F150423-002		
	ND	ND	ug/L	0	(0-20)	SW846 9012	06/18-06/19/12	2170112
			Dilution Factor: 1					

NOTE(S):

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

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.