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WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352

March 8, 2011

Michael Neely
CH2M-HILL PRC
PO Box 1600
Richland, WA 99352

Dear Michael Neely,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF111421

Reference: (1) SOW, Mod 2, #36587, Release 3
(2) HNF-SD-CD-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF111421

* Cover Sheet (Attachment 1)
* Narrative (Attachment 2)
* Analytical Results (Attachment 3)
* Sample Receipt Information (Attachment 4)

Very truly yours,

Electronically signed by Joseph Hale
For Lab Manager
WSCF Analytical Lab
(509) 373-7495

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Attachments 4

CC: w/Attachments

File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF111421
Data Deliverable Date 03/07/11

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
F10-197	B2B928	111421001	WATER	02/03/11	02/03/11
F10-197	B2B929	111421002	WATER	02/03/11	02/03/11
F10-197	B2B930	111421003	WATER	02/03/11	02/03/11

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Attachment 2
Narrative
WSCF111421

Introduction

Samples were received at the WSCF laboratory as referenced on the WSCF SAF Number Cross Reference table included in the final report. The samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Statement of Work (SOW), Modification No. 2 to Agreement 36587, Release 3, "FH WSCF ANALYTICAL SERVICES FOR GROUNDWATER."*

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

It should be noted that the attached chain of custody was not stamped "ICED" by the WSCF Laboratory Sample Custodian during sample receiving. However, based on procedure LO-090-403 form "NOTICE OF IMPROPER SAMPLE SUBMITTAL" was not submitted and was not stamped "NOT ICED". No anomaly was noted during sample receipt.

The following generic data qualifiers (i.e., B, D, U and J) may be applicable to this report, as appropriate

- **B** – Sample results with a concentration greater than the MDL but less than the PQL are B flagged (applies to inorganic and wet chemical analyses), as appropriate.
- **D** – Sample results are D flagged if dilution(s) were required, as appropriate.
- **J** – Sample results with a concentration greater than the MDL but less than the PQL are J flagged (applies to organic analyses), as appropriate.
- **U** – Analyzed for but not detected above limiting criteria. Relative Percent Difference (RPD) values associated with an analyte qualified with a "U" are not applicable.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report* for a complete listing of approved analytical methods.

Inorganic Comments

Anions – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Sulfate – MS / MSD Relative Percent Difference (RPD) is outside established laboratory limits. The quality control report was flagged for RPD failure.

Attachment 2
Narrative
WSCF111421

- Sulfate – Matrix Spike and/or Matrix Spike Duplicate recoveries are outside established laboratory limits. Affected sample results in this batch were "N" flagged.
- All other applicable QC controls are within the established limits.

ICP-AES Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Sodium – Detected in the Blank and evaluated. No sample results in this batch were affected. "C" Flags not required.
- Magnesium, Potassium, Sodium, Silicon and Calcium – Exceeded spiking levels by a factor of 4. Spike recoveries and associated RPDs are not valid.
- All other applicable QC controls are within the established limits.

ICP-MS Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Batch QC 176752
  - Zinc – Detected in the Blank and evaluated. Affected sample results in this batch were "C" Flagged.
- Batch QC 176762
  - Zinc – Detected in the Blank and evaluated. Affected sample results in this batch were "C" Flagged.
  - All other applicable QC controls are within the established limits.

Total Alkalinity – The hold time requirement for this analysis was met. A Duplicate and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- All applicable QC controls are within the established limits.

Organic Comments

VOA – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- All applicable QC controls are within the established limits.

Attachment 2
Narrative
WSCF111421

We certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the Analytical Laboratory Manager (or designee) and the Client Services representative as verified by electronic signatures shown on the WSCF ANALYTICAL RESULTS REPORT.

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 46 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

For

CH2M Hill Plateau Remediation

PO Box 1600
Richland, WA 99352

Attention: Michael Neely

Contract #	MOA-FH-CHPRC-2008
Group #	WSCF111421
Report Date	March 8, 2011

Analytical: Electronically signed by Joseph Hale

Client Services: Electronically signed by Richard Barker

Solid samples results that have a 'Percent Solid' test are reported on a "dry weight basis", except results of TCLP, Percent Solid, and Total Activity. If no `Percent Solid' test is reported then the results are reported on an "as received" basis.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Michael Neely
Department Inorganic

Group # WSCF111421

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
176061	176061	2	BLANK	48400	BLANK		Anions by Ion Chromatography (Water)
176061	176061	3	LCS	48401	LCS		Anions by Ion Chromatography (Water)
176061	176061	4	DUP	48402	B26RV2(111405001DUP)	111405001	Anions by Ion Chromatography (Water)
176061	176061	5	MS	48403	B26RV2(111405001MS)	111405001	Anions by Ion Chromatography (Water)
176061	176061	6	MSD	48404	B26RV2(111405001MSD)	111405001	Anions by Ion Chromatography (Water)
176061	176061	15	SAMPLE	111421001	B2B928		Anions by Ion Chromatography (Water)
176061	176061	16	SAMPLE	111421002	B2B929		Anions by Ion Chromatography (Water)
176752	176755	4	BLANK	48905	BLANK		ICP-2008 MS All possible metal
176752	176755	5	LCS	48906	LCS		ICP-2008 MS All possible metal
176752	176755	6	MS	48907	B27507(111352001MS)	111352001	ICP-2008 MS All possible metal
176752	176755	7	MSD	48908	B27507(111352001MSD)	111352001	ICP-2008 MS All possible metal
176752	176755	25	SAMPLE	111421002	B2B929		ICP-2008 MS All possible metal
176762	176764	4	BLANK	48940	BLANK		ICP-2008 MS All possible metal
176762	176764	5	LCS	48941	LCS		ICP-2008 MS All possible metal
176762	176764	6	MS	48942	B26RT9(111369001MS)	111369001	ICP-2008 MS All possible metal
176762	176764	7	MSD	48943	B26RT9(111369001MSD)	111369001	ICP-2008 MS All possible metal
176762	176764	21	SAMPLE	111421001	B2B928		ICP-2008 MS All possible metal
178051	178391	1	BLANK	49934	BLANK		ICP-6010 - All possible metals
178051	178391	2	LCS	49935	LCS		ICP-6010 - All possible metals
178051	178391	4	MS	49936	B2B040(111366034MS)	111366034	ICP-6010 - All possible metals
178051	178391	5	MSD	49937	B2B040(111366034MSD)	111366034	ICP-6010 - All possible metals
178051	178391	15	SAMPLE	111421001	B2B928		ICP-6010 - All possible metals
178051	178391	16	SAMPLE	111421002	B2B929		ICP-6010 - All possible metals

Batch QC List

Attention Michael Neely
Department Inorganic

Group # WSCF111421

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
178051	178391	25	SAMPLE	111421001	B2B928		ICP-6010 - All possible metals
178051	178391	26	SAMPLE	111421002	B2B929		ICP-6010 - All possible metals

Batch QC List

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
176256	176257	1	BLANK	48555	BLANK		SW-846 8260B Volatiles, separate prep
176256	176257	2	LCS	48556	LCS		SW-846 8260B Volatiles, separate prep
176256	176257	3	MS	48557	B26RV2(111405001MS)	111405001	SW-846 8260B Volatiles, separate prep
176256	176257	4	MSD	48558	B26RV2(111405001MSD)	111405001	SW-846 8260B Volatiles, separate prep
176256	176257	12	SAMPLE	111421001	B2B928		SW-846 8260B Volatiles, separate prep
176256	176257	13	SAMPLE	111421002	B2B929		SW-846 8260B Volatiles, separate prep
176256	176257	14	SAMPLE	111421003	B2B930		SW-846 8260B Volatiles, separate prep

Batch QC List

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111421

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
176851	176851	1	LCS	48984	LCS		Total Alkalinity as mg/L CaCO3 (Water)
176851	176851	2	DUP	48985	B2B933(111404001DUP)	111404001	Total Alkalinity as mg/L CaCO3 (Water)
176851	176851	5	SAMPLE	111421001	B2B928		Total Alkalinity as mg/L CaCO3 (Water)
176851	176851	6	SAMPLE	111421002	B2B929		Total Alkalinity as mg/L CaCO3 (Water)

Method Reference

Attention Michael Neely
Department Inorganic

Group # WSCF111421

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-505-411	Elemental Analysis by ICP Atomic Emission Spectroscopy (ICP AES)		
	EPA SW-846	6010C	Inductively Coupled Plasma-Atomic Emmision Spectrometry
	HEIS	6010_METALS_ICP	Inductively Coupled Plasma-Atomic Emmision Spectrometry
LA-505-412	Determination of Trace Elements in Waters & Wastes by ICP-Mass Spectrometry		
	EPA-600/R-94-111	200.8	Determination of Trace Elements in Waters and Waste by Inductively Coupled Plasma
	HEIS	200.8_METALS_ICPMS	Determination of Trace Elements in Waters and Waste by Inductively Coupled Plasma, Mass Spec.
LA-533-410	Anion Analysis by Ion Chromatography		
	EPA-600/R-94-111	300.0	Determination of Inorganic Anions by Ion Chromatography
	HEIS	300.0_ANIONS_IC	Determination of Inorganic Anions by Ion Chromatography

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-523-455	Volatile Sample Analysis by SW-846 Method 8260B		
	EPA SW-846	8000B	Determinative Chromographic Separations
	EPA SW-846	8260B	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
	HEIS	8260_VOA_GCMS	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111421

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-531-411	Alkalinity		
	EPA-600/4-79-020	310.1	Alkalinity
	HEIS	2320_ALKALINITY	Alkalinity

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Sample # 111421001
SAF# F10-197
Sample ID B2B928

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anions by IC										**02/03/11**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	BD	0.263		ug/mL	2	0.088	0.40	02/03/11
Chloride	16887-00-6	LA-533-410	D	6.47		ug/mL	2	0.084	0.80	02/03/11
Nitrite-N	NO2-N	LA-533-410	UD	<0.036		ug/mL	2	0.036	0.20	02/03/11
Bromide	24959-67-9	LA-533-410	UD	<0.11		ug/mL	2	0.11	1.0	02/03/11
Nitrate-N	NO3-N	LA-533-410	UD	<0.019		ug/mL	2	0.019	0.20	02/03/11
Phosphate-P	PO4-P	LA-533-410	UD	<0.14		ug/mL	2	0.14	0.80	02/03/11
Sulfate	14808-79-8	LA-533-410	UDN	<0.17		ug/mL	2	0.17	2.0	02/03/11
ICP Prep										**02/28/11**
ICP-AES										
Iron	7439-89-6	LA-505-411	U	<38		ug/L	1	38	190	03/07/11
Magnesium	7439-95-4	LA-505-411		8610		ug/L	1	14	70	03/07/11
Potassium	7440-09-7	LA-505-411		6270		ug/L	1	73	360	03/07/11
Sodium	7440-23-5	LA-505-411		30000		ug/L	1	11	55	03/08/11
Calcium	7440-70-2	LA-505-411		26600		ug/L	1	28	140	03/07/11
Lithium	7439-93-2	LA-505-411	B	7.00		ug/L	1	4.0	20	03/07/11
Boron	7440-42-8	LA-505-411	U	<41		ug/L	1	41	200	03/07/11
Bismuth	7440-69-9	LA-505-411	U	<37		ug/L	1	37	180	03/07/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Sample # 111421001
SAF# F10-197
Sample ID B2B928

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Silicon	7440-21-3	LA-505-411		23700		ug/L	1	25	120	03/07/11
Phosphorus	7723-14-0	LA-505-411	U	<72		ug/L	1	72	360	03/07/11
ICPMS Prep										**02/14/11**
ICP-MS										
Aluminum	7429-90-5	LA-505-412	BD	19.6		ug/L	2	10	200	02/16/11
Manganese	7439-96-5	LA-505-412	D	58.7		ug/L	2	0.20	2.0	02/16/11
Nickel	7440-02-0	LA-505-412	BD	0.864		ug/L	2	0.40	4.0	02/16/11
Silver	7440-22-4	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	02/16/11
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	02/16/11
Barium	7440-39-3	LA-505-412	D	32.5		ug/L	2	0.40	4.0	02/16/11
Beryllium	7440-41-7	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	02/16/11
Cadmium	7440-43-9	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	02/16/11
Chromium	7440-47-3	LA-505-412	UD	<1.0		ug/L	2	1.0	10	02/16/11
Cobalt	7440-48-4	LA-505-412	BD	0.277		ug/L	2	0.10	0.50	02/16/11
Copper	7440-50-8	LA-505-412	BD	0.263		ug/L	2	0.20	2.0	02/16/11
Vanadium	7440-62-2	LA-505-412	BD	0.872		ug/L	2	0.40	4.0	02/16/11
Zinc	7440-66-6	LA-505-412	BDC	6.25		ug/L	2	1.6	10	02/16/11
Lead	7439-92-1	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	02/16/11
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	02/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Sample # 111421001
SAF# F10-197
Sample ID B2B928

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Molybdenum	7439-98-7	LA-505-412	D	5.11		ug/L	2	0.10	1.0	02/16/11
Strontium	7440-24-6	LA-505-412	D	137		ug/L	2	0.20	2.0	02/16/11
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	02/16/11
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	02/16/11
Uranium	7440-61-1	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	02/16/11
Arsenic	7440-38-2	LA-505-412	UD	<0.80		ug/L	2	0.80	8.0	02/16/11
Selenium	7782-49-2	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	02/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Sample # 111421002
SAF# F10-197
Sample ID B2B929

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anions by IC										**02/03/11**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	BD	0.267		ug/mL	2	0.088	0.40	02/03/11
Chloride	16887-00-6	LA-533-410	D	6.49		ug/mL	2	0.084	0.80	02/03/11
Nitrite-N	NO2-N	LA-533-410	UD	<0.036		ug/mL	2	0.036	0.20	02/03/11
Bromide	24959-67-9	LA-533-410	UD	<0.11		ug/mL	2	0.11	1.0	02/03/11
Nitrate-N	NO3-N	LA-533-410	UD	<0.019		ug/mL	2	0.019	0.20	02/03/11
Phosphate-P	PO4-P	LA-533-410	UD	<0.14		ug/mL	2	0.14	0.80	02/03/11
Sulfate	14808-79-8	LA-533-410	UDN	<0.17		ug/mL	2	0.17	2.0	02/03/11
ICP Prep										**02/28/11**
ICP-AES										
Iron	7439-89-6	LA-505-411	B	42.0		ug/L	1	38	190	03/07/11
Magnesium	7439-95-4	LA-505-411		8320		ug/L	1	14	70	03/07/11
Potassium	7440-09-7	LA-505-411		5950		ug/L	1	73	360	03/07/11
Sodium	7440-23-5	LA-505-411		29500		ug/L	1	11	55	03/08/11
Calcium	7440-70-2	LA-505-411		25900		ug/L	1	28	140	03/07/11
Lithium	7439-93-2	LA-505-411	B	7.00		ug/L	1	4.0	20	03/07/11
Boron	7440-42-8	LA-505-411	U	<41		ug/L	1	41	200	03/07/11
Bismuth	7440-69-9	LA-505-411	U	<37		ug/L	1	37	180	03/07/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
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U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Sample # 111421002
SAF# F10-197
Sample ID B2B929

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Silicon	7440-21-3	LA-505-411		23100		ug/L	1	25	120	03/07/11
Phosphorus	7723-14-0	LA-505-411	B	94.0		ug/L	1	72	360	03/07/11
ICPMS Prep										**02/14/11**
ICP-MS										
Aluminum	7429-90-5	LA-505-412	BD	24.8		ug/L	2	10	200	02/14/11
Manganese	7439-96-5	LA-505-412	D	58.0		ug/L	2	0.20	2.0	02/14/11
Nickel	7440-02-0	LA-505-412	BD	1.63		ug/L	2	0.40	4.0	02/14/11
Silver	7440-22-4	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	02/14/11
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	02/14/11
Barium	7440-39-3	LA-505-412	D	31.3		ug/L	2	0.40	4.0	02/14/11
Beryllium	7440-41-7	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	02/14/11
Cadmium	7440-43-9	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	02/14/11
Chromium	7440-47-3	LA-505-412	UD	<1.0		ug/L	2	1.0	10	02/14/11
Cobalt	7440-48-4	LA-505-412	D	0.896		ug/L	2	0.10	0.50	02/14/11
Copper	7440-50-8	LA-505-412	BD	0.262		ug/L	2	0.20	2.0	02/14/11
Vanadium	7440-62-2	LA-505-412	BD	0.979		ug/L	2	0.40	4.0	02/14/11
Zinc	7440-66-6	LA-505-412	BDC	6.99		ug/L	2	1.6	10	02/14/11
Lead	7439-92-1	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	02/14/11
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	02/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Sample # 111421002
SAF# F10-197
Sample ID B2B929

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Molybdenum	7439-98-7	LA-505-412	D	4.85		ug/L	2	0.10	1.0	02/14/11
Strontium	7440-24-6	LA-505-412	D	133		ug/L	2	0.20	2.0	02/14/11
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	02/14/11
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	02/14/11
Uranium	7440-61-1	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	02/14/11
Arsenic	7440-38-2	LA-505-412	UD	<0.80		ug/L	2	0.80	8.0	02/14/11
Selenium	7782-49-2	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	02/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

Sample # 111421001
SAF# F10-197
Sample ID B2B928

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8260 Prep										**02/08/11**
SW-846 8260B										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Styrene	100-42-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Dibromochloromethane	124-48-1	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Total 1,2-Dichloroethene	540-59-0	LA-523-455	U	<1		ug/L	1	1	5	02/08/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < PQL (or EQL) >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
N - MS and/or MSD recovery outside control limits.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

Sample # 111421001
SAF# F10-197
Sample ID B2B928

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
2-Hexanone	591-78-6	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Bromomethane	74-83-9	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Chloromethane	74-87-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Chloroethane	75-00-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Bromoform	75-25-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Bromodichloromethane	75-27-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,2-Dichloropropane	78-87-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < PQL (or EQL) >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
N - MS and/or MSD recovery outside control limits.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

Sample # 111421001
SAF# F10-197
Sample ID B2B928

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < PQL (or EQL) >= MDL.
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T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
N - MS and/or MSD recovery outside control limits.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

Sample # 111421002
SAF# F10-197
Sample ID B2B929

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8260 Prep										**02/08/11**
SW-846 8260B										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Styrene	100-42-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Dibromochloromethane	124-48-1	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Total 1,2-Dichloroethene	540-59-0	LA-523-455	U	<1		ug/L	1	1	5	02/08/11

MDL = Minimum Detection
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T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
N - MS and/or MSD recovery outside control limits.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

Sample # 111421002
SAF# F10-197
Sample ID B2B929

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
2-Hexanone	591-78-6	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Bromomethane	74-83-9	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Chloromethane	74-87-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Chloroethane	75-00-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Bromoform	75-25-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Bromodichloromethane	75-27-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,2-Dichloropropane	78-87-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11

MDL = Minimum Detection
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DF = Dilution Factor
+ - Indicates more than nine qualifier

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J - Analyte < PQL (or EQL) >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
N - MS and/or MSD recovery outside control limits.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

Sample # 111421002
SAF# F10-197
Sample ID B2B929

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11

MDL = Minimum Detection
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TP Err = Total Propagated
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J - Analyte < PQL (or EQL) >= MDL.
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X,Y or Z - See comment detail and/or narrative.
N - MS and/or MSD recovery outside control limits.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

Sample # 111421003
SAF# F10-197
Sample ID B2B930

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8260 Prep										**02/08/11**
SW-846 8260B										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Styrene	100-42-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Dibromochloromethane	124-48-1	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Total 1,2-Dichloroethene	540-59-0	LA-523-455	U	<1		ug/L	1	1	5	02/08/11

MDL = Minimum Detection
RQ = Result Qualifier
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T - MS/MSD recovery outside control limits(GC/MS only).
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X,Y or Z - See comment detail and/or narrative.
N - MS and/or MSD recovery outside control limits.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

Sample # 111421003
SAF# F10-197
Sample ID B2B930

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
2-Hexanone	591-78-6	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Bromomethane	74-83-9	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Chloromethane	74-87-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Chloroethane	75-00-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Methylene chloride	75-09-2	LA-523-455		21		ug/L	1	1	5	02/08/11
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Bromoform	75-25-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Bromodichloromethane	75-27-4	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,2-Dichloropropane	78-87-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	02/08/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < PQL (or EQL) >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
N - MS and/or MSD recovery outside control limits.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

Sample # 111421003
SAF# F10-197
Sample ID B2B930

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	02/08/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < PQL (or EQL) >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
N - MS and/or MSD recovery outside control limits.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111421

Sample # 111421001
SAF# F10-197
Sample ID B2B928

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alkalinity										**02/10/11**
Alkalinity										
Total Alkalinity as CaCO3	ALKALINITY	LA-531-411		160		mg/L	1	1	10	02/10/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111421

Sample # 111421002
SAF# F10-197
Sample ID B2B929

Matrix WATER
Sampled 02/03/11
Received 02/03/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alkalinity										**02/10/11**
Alkalinity										
Total Alkalinity as CaCO3	ALKALINITY	LA-531-411		150		mg/L	1	1	10	02/10/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

QC Batch 176061
Associated Samples 111421001, 111421002

Test Anions by Ion Chromatography (Water)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #48400**							
Fluoride	16984-48-8		<0.044	ug/mL					U	02/03/11
Chloride	16887-00-6		<0.042	ug/mL					U	02/03/11
Nitrite-N	NO2-N		<0.018	ug/mL					U	02/03/11
Bromide	24959-67-9		<0.054	ug/mL					U	02/03/11
Nitrate-N	NO3-N		<9.7E-3	ug/mL					U	02/03/11
Phosphate-P	PO4-P		<0.072	ug/mL					U	02/03/11
Sulfate	14808-79-8		<0.083	ug/mL					U	02/03/11
LCS			**QC Sample #48401**							
Fluoride	16984-48-8		0.920	ug/mL	92.9	90 - 110				02/03/11
Chloride	16887-00-6		1.95	ug/mL	98.6	90 - 110				02/03/11
Nitrite-N	NO2-N		0.984	ug/mL	100.6	90 - 110				02/03/11
Bromide	24959-67-9		3.97	ug/mL	101.2	90 - 110				02/03/11
Nitrate-N	NO3-N		0.925	ug/mL	104.5	90 - 110				02/03/11
Phosphate-P	PO4-P		1.93	ug/mL	101.1	90 - 110				02/03/11
Sulfate	14808-79-8		4.06	ug/mL	103.4	90 - 110				02/03/11
DUP			**QC Sample #48402**							
			Original 111405001							
Fluoride	16984-48-8		0.297	ug/mL			1.70	20	BD	02/03/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Chloride	16887-00-6		5.05	ug/mL			1.00	20		D	02/03/11
Nitrite-N	NO2-N		<0.036	ug/mL			0.00	20		UD	02/03/11
Bromide	24959-67-9		<0.11	ug/mL			0.00	20		UD	02/03/11
Nitrate-N	NO3-N		0.940	ug/mL			1.70	20		D	02/03/11
Phosphate-P	PO4-P		<0.14	ug/mL			0.00	20		UD	02/03/11
Sulfate	14808-79-8		25.9	ug/mL			1.60	20		D	02/03/11
MS			**QC Sample #48403**								
			Original 111405001								
Fluoride	16984-48-8		0.970	ug/mL	97	80 - 120				D	02/03/11
Chloride	16887-00-6		1.96	ug/mL	98.1	80 - 120				D	02/03/11
Nitrite-N	NO2-N		1.01	ug/mL	102.5	80 - 120				D	02/03/11
Bromide	24959-67-9		3.84	ug/mL	96.8	80 - 120				D	02/03/11
Nitrate-N	NO3-N		0.899	ug/mL	100.6	80 - 120				D	02/03/11
Phosphate-P	PO4-P		2.00	ug/mL	103.4	80 - 120				D	02/03/11
Sulfate	14808-79-8		3.72	ug/mL	93.8	80 - 120				D	02/03/11
MSD			**QC Sample #48404**								
			Original 111405001						**Paired**	**48403**	
Fluoride	16984-48-8		0.946	ug/mL	94.6	80 - 120	2.50	20		D	02/03/11
Chloride	16887-00-6		1.91	ug/mL	95.6	80 - 120	2.60	20		D	02/03/11
Nitrite-N	NO2-N		1.18	ug/mL	119.1	80 - 120	15.00	20		D	02/03/11
Bromide	24959-67-9		4.32	ug/mL	109	80 - 120	11.90	20		D	02/03/11
Nitrate-N	NO3-N		0.921	ug/mL	103	80 - 120	2.40	20		D	02/03/11
Phosphate-P	PO4-P		1.93	ug/mL	100.1	80 - 120	3.20	20		D	02/03/11
Sulfate	14808-79-8		3.04	ug/mL	76.7	80 - 120	20.10	20	*	DNX	02/03/11

Quality Control Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

QC Batch 176256
Associated Samples 111421001, 111421002, 111421003

Test SW-846 8260B Volatiles, separate prep

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #48555**						
1,1-Dichloroethene	75-35-4		<1	ug/L				U	02/08/11
Trichloroethene	79-01-6		<1	ug/L				U	02/08/11
Benzene	71-43-2		<1	ug/L				U	02/08/11
Toluene	108-88-3		<1	ug/L				U	02/08/11
Chlorobenzene	108-90-7		<1	ug/L				U	02/08/11
1,1-Dichloroethane	75-34-3		<1	ug/L				U	02/08/11
Ethylbenzene	100-41-4		<1	ug/L				U	02/08/11
Styrene	100-42-5		<1	ug/L				U	02/08/11
cis-1,3-Dichloropropene	10061-01-5		<1	ug/L				U	02/08/11
trans-1,3-Dichloropropene	10061-02-6		<1	ug/L				U	02/08/11
1,2-Dichloroethane	107-06-2		<1	ug/L				U	02/08/11
Methyl isobutyl ketone	108-10-1		<1	ug/L				U	02/08/11
Dibromochloromethane	124-48-1		<1	ug/L				U	02/08/11
Tetrachloroethene	127-18-4		<1	ug/L				U	02/08/11
Total Xylenes	1330-20-7		<1	ug/L				U	02/08/11
Total 1,2-Dichloroethene	540-59-0		<1	ug/L				U	02/08/11
Carbon tetrachloride	56-23-5		<1	ug/L				U	02/08/11

Quality Control Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
2-Hexanone	591-78-6		<1	ug/L					U	02/08/11
Acetone	67-64-1		<1	ug/L					U	02/08/11
Chloroform	67-66-3		<1	ug/L					U	02/08/11
1,1,1-Trichloroethane	71-55-6		<1	ug/L					U	02/08/11
Bromomethane	74-83-9		<1	ug/L					U	02/08/11
Chloromethane	74-87-3		<1	ug/L					U	02/08/11
Chloroethane	75-00-3		<1	ug/L					U	02/08/11
Vinyl chloride	75-01-4		<1	ug/L					U	02/08/11
Methylene chloride	75-09-2		<1	ug/L					U	02/08/11
Carbon disulfide	75-15-0		<1	ug/L					U	02/08/11
Bromoform	75-25-2		<1	ug/L					U	02/08/11
Bromodichloromethane	75-27-4		<1	ug/L					U	02/08/11
1,2-Dichloropropane	78-87-5		<1	ug/L					U	02/08/11
Methyl ethyl ketone	78-93-3		<1	ug/L					U	02/08/11
1,1,2-Trichloroethane	79-00-5		<1	ug/L					U	02/08/11
1,1,2,2-Tetrachloroethane	79-34-5		<1	ug/L					U	02/08/11
trans-1,2-Dichloroethene	156-60-5		<1	ug/L					U	02/08/11
cis-1,2-Dichloroethene	156-59-2		<1	ug/L					U	02/08/11
LCS			**QC Sample #48556**							
1,1-Dichloroethene	75-35-4		23	ug/L	91	75 - 125				02/08/11
Trichloroethene	79-01-6		22	ug/L	88.7	75 - 125				02/08/11
Benzene	71-43-2		26	ug/L	104.5	75 - 125				02/08/11

Quality Control Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Toluene	108-88-3		27	ug/L	109.4	75 - 125				02/08/11
Chlorobenzene	108-90-7		28	ug/L	111.4	75 - 125				02/08/11
MS			**QC Sample #48557**							
			Original 111405001							
1,1-Dichloroethene	75-35-4		23	ug/L	91.3	75 - 125				02/08/11
Trichloroethene	79-01-6		21	ug/L	85.6	75 - 125				02/08/11
Benzene	71-43-2		24	ug/L	97.8	75 - 125				02/08/11
Toluene	108-88-3		26	ug/L	104.3	75 - 125				02/08/11
Chlorobenzene	108-90-7		26	ug/L	104.5	75 - 125				02/08/11
MSD			**QC Sample #48558**							
			Original 111405001						**Paired 48557**	
1,1-Dichloroethene	75-35-4		24	ug/L	96.6	75 - 125	5.60	20		02/08/11
Trichloroethene	79-01-6		21	ug/L	84.5	75 - 125	1.30	20		02/08/11
Benzene	71-43-2		25	ug/L	98.2	75 - 125	0.40	20		02/08/11
Toluene	108-88-3		26	ug/L	104.1	75 - 125	0.20	20		02/08/11
Chlorobenzene	108-90-7		27	ug/L	106.6	75 - 125	2.00	20		02/08/11

Quality Control Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111421

QC Batch 176851
Associated Samples 111421001, 111421002

Test Total Alkalinity as mg/L CaCO3 (Water)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #48984**							
Total Alkalinity as CaCO3	ALKALINITY		100	mg/L	100.4	80 - 120				02/10/11
DUP			**QC Sample #48985**							
			Original 111404001							
Total Alkalinity as CaCO3	ALKALINITY		130	mg/L			0.00	20		02/10/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

QC Batch 178051
Associated Samples 111421001, 111421002

Test ICP-6010 - All possible metals

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #49934**							
Iron	7439-89-6		<38	ug/L					U	03/07/11
Magnesium	7439-95-4		<14	ug/L					U	03/07/11
Potassium	7440-09-7		<73	ug/L					U	03/07/11
Sodium	7440-23-5		15.0	ug/L					B	03/07/11
Calcium	7440-70-2		<28	ug/L					U	03/07/11
Lithium	7439-93-2		<4.0	ug/L					U	03/07/11
Boron	7440-42-8		<41	ug/L					U	03/07/11
Bismuth	7440-69-9		<37	ug/L					U	03/07/11
Silicon	7440-21-3		<25	ug/L					U	03/07/11
Phosphorus	7723-14-0		<72	ug/L					U	03/07/11
LCS			**QC Sample #49935**							
Iron	7439-89-6		1010	ug/L	101	80 - 120				03/07/11
Magnesium	7439-95-4		1020	ug/L	102	80 - 120				03/07/11
Potassium	7440-09-7		1090	ug/L	109	80 - 120				03/07/11
Sodium	7440-23-5		1130	ug/L	113	80 - 120				03/07/11
Calcium	7440-70-2		1010	ug/L	101	80 - 120				03/07/11
Lithium	7439-93-2		550	ug/L	110	80 - 120				03/07/11
Boron	7440-42-8		1030	ug/L	103	80 - 120				03/07/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Bismuth	7440-69-9		974	ug/L	97.4	80 - 120					03/07/11
Silicon	7440-21-3		1040	ug/L	104	80 - 120					03/07/11
Phosphorus	7723-14-0		1010	ug/L	101	80 - 120					03/07/11
MS			**QC Sample #49936**								
			Original 111366034								
Iron	7439-89-6		994	ug/L	99.4	75 - 125					03/07/11
Magnesium	7439-95-4		600	ug/L	60	75 - 125				X	03/07/11
Potassium	7440-09-7		840	ug/L	84	75 - 125				X	03/07/11
Sodium	7440-23-5		400	ug/L	40	75 - 125				X	03/07/11
Calcium	7440-70-2		-300	ug/L	-30	75 - 125				X	03/07/11
Lithium	7439-93-2		534	ug/L	106.8	75 - 125					03/07/11
Boron	7440-42-8		1050	ug/L	105	75 - 125					03/07/11
Bismuth	7440-69-9		997	ug/L	99.7	75 - 125					03/07/11
Silicon	7440-21-3		600	ug/L	60	75 - 125				X	03/07/11
Phosphorus	7723-14-0		1070	ug/L	107	75 - 125					03/07/11
MSD			**QC Sample #49937**								
			Original 111366034						**Paired**	**49936**	
Iron	7439-89-6		991	ug/L	99.1	75 - 125	0.30	20			03/07/11
Magnesium	7439-95-4		700	ug/L	70	75 - 125	15.40	20		X	03/07/11
Potassium	7440-09-7		940	ug/L	94	75 - 125	11.20	20		X	03/07/11
Sodium	7440-23-5		700	ug/L	70	75 - 125	54.50	20	*	X	03/07/11
Calcium	7440-70-2		-100	ug/L	-10	75 - 125	-100.00	20		X	03/07/11
Lithium	7439-93-2		538	ug/L	107.6	75 - 125	0.70	20			03/07/11
Boron	7440-42-8		1030	ug/L	103	75 - 125	1.90	20			03/07/11
Bismuth	7440-69-9		980	ug/L	98	75 - 125	1.70	20			03/07/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Silicon	7440-21-3		600	ug/L	60	75 - 125	0.00	20	X	03/07/11
Phosphorus	7723-14-0		1090	ug/L	109	75 - 125	1.90	20		03/07/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

QC Batch 176752
Associated Samples 111421002

Test ICP-2008 MS All possible metal

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #48905**						
Aluminum	7429-90-5		<5.0	ug/L				U	02/14/11
Manganese	7439-96-5		<0.10	ug/L				U	02/14/11
Nickel	7440-02-0		<0.20	ug/L				U	02/14/11
Silver	7440-22-4		<0.10	ug/L				U	02/14/11
Antimony	7440-36-0		<0.30	ug/L				U	02/14/11
Barium	7440-39-3		<0.20	ug/L				U	02/14/11
Beryllium	7440-41-7		<0.10	ug/L				U	02/14/11
Cadmium	7440-43-9		<0.10	ug/L				U	02/14/11
Chromium	7440-47-3		<0.50	ug/L				U	02/14/11
Cobalt	7440-48-4		<0.050	ug/L				U	02/14/11
Copper	7440-50-8		<0.10	ug/L				U	02/14/11
Vanadium	7440-62-2		<0.20	ug/L				U	02/14/11
Zinc	7440-66-6		2.14	ug/L				B	02/14/11
Lead	7439-92-1		<0.10	ug/L				U	02/14/11
Mercury	7439-97-6		<0.050	ug/L				U	02/14/11
Molybdenum	7439-98-7		<0.050	ug/L				U	02/14/11
Strontium	7440-24-6		<0.10	ug/L				U	02/14/11
Thallium	7440-28-0		<0.050	ug/L				U	02/14/11
Tin	7440-31-5		<0.050	ug/L				U	02/14/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Uranium	7440-61-1		<0.050	ug/L					U	02/14/11
Arsenic	7440-38-2		<0.40	ug/L					U	02/14/11
Selenium	7782-49-2		<0.30	ug/L					U	02/14/11
LCS			**QC Sample #48906**							
Aluminum	7429-90-5		393	ug/L	98.2	85 - 115				02/14/11
Manganese	7439-96-5		39.2	ug/L	98.1	85 - 115				02/14/11
Nickel	7440-02-0		38.8	ug/L	97	85 - 115				02/14/11
Silver	7440-22-4		39.4	ug/L	98.5	85 - 115				02/14/11
Antimony	7440-36-0		38.7	ug/L	96.7	85 - 115				02/14/11
Barium	7440-39-3		39.5	ug/L	98.8	85 - 115				02/14/11
Beryllium	7440-41-7		38.7	ug/L	96.7	85 - 115				02/14/11
Cadmium	7440-43-9		37.9	ug/L	94.7	85 - 115				02/14/11
Chromium	7440-47-3		45.2	ug/L	113.1	85 - 115				02/14/11
Cobalt	7440-48-4		38.7	ug/L	96.6	85 - 115				02/14/11
Copper	7440-50-8		39.4	ug/L	98.6	85 - 115				02/14/11
Vanadium	7440-62-2		39.7	ug/L	99.2	85 - 115				02/14/11
Zinc	7440-66-6		40.2	ug/L	100.5	85 - 115				02/14/11
Lead	7439-92-1		39.9	ug/L	99.7	85 - 115				02/14/11
Mercury	7439-97-6		1.82	ug/L	90.8	85 - 115				02/14/11
Molybdenum	7439-98-7		40.0	ug/L	100	85 - 115				02/14/11
Strontium	7440-24-6		39.3	ug/L	98.2	85 - 115				02/14/11
Thallium	7440-28-0		40.1	ug/L	100.4	85 - 115				02/14/11
Tin	7440-31-5		39.6	ug/L	98.9	85 - 115				02/14/11
Uranium	7440-61-1		40.9	ug/L	102.2	85 - 115				02/14/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Arsenic	7440-38-2		37.1	ug/L	92.6	85 - 115				02/14/11
Selenium	7782-49-2		34.5	ug/L	86.2	85 - 115				02/14/11
MS			**QC Sample #48907**							
			Original 111352001							
Aluminum	7429-90-5		391	ug/L	97.7	70 - 130				02/14/11
Manganese	7439-96-5		38.8	ug/L	96.9	70 - 130				02/14/11
Nickel	7440-02-0		37.4	ug/L	93.5	70 - 130				02/14/11
Silver	7440-22-4		37.9	ug/L	94.7	70 - 130				02/14/11
Antimony	7440-36-0		38.6	ug/L	96.6	70 - 130				02/14/11
Barium	7440-39-3		40.1	ug/L	100.2	70 - 130				02/14/11
Beryllium	7440-41-7		39.1	ug/L	97.8	70 - 130				02/14/11
Cadmium	7440-43-9		38.0	ug/L	94.9	70 - 130				02/14/11
Chromium	7440-47-3		39.0	ug/L	97.4	70 - 130				02/14/11
Cobalt	7440-48-4		37.5	ug/L	93.7	70 - 130				02/14/11
Copper	7440-50-8		36.9	ug/L	92.2	70 - 130				02/14/11
Vanadium	7440-62-2		40.3	ug/L	100.8	70 - 130				02/14/11
Zinc	7440-66-6		34.8	ug/L	87.1	70 - 130				02/14/11
Lead	7439-92-1		40.3	ug/L	100.7	70 - 130				02/14/11
Mercury	7439-97-6		1.94	ug/L	96.8	70 - 130				02/14/11
Molybdenum	7439-98-7		41.4	ug/L	103.6	70 - 130				02/14/11
Strontium	7440-24-6		45.5	ug/L	113.8	70 - 130				02/14/11
Thallium	7440-28-0		41.2	ug/L	103	70 - 130				02/14/11
Tin	7440-31-5		40.2	ug/L	100.6	70 - 130				02/14/11
Uranium	7440-61-1		43.0	ug/L	107.6	70 - 130				02/14/11
Arsenic	7440-38-2		37.9	ug/L	94.7	70 - 130				02/14/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Selenium	7782-49-2		36.2	ug/L	90.4	70 - 130				02/14/11
MSD			**QC Sample #48908**							
			Original 111352001						**Paired 48907**	
Aluminum	7429-90-5		385	ug/L	96.2	70 - 130	1.50	20		02/14/11
Manganese	7439-96-5		38.8	ug/L	97.1	70 - 130	0.20	20		02/14/11
Nickel	7440-02-0		36.8	ug/L	91.9	70 - 130	1.70	20		02/14/11
Silver	7440-22-4		37.2	ug/L	92.9	70 - 130	1.90	20		02/14/11
Antimony	7440-36-0		37.8	ug/L	94.6	70 - 130	2.10	20		02/14/11
Barium	7440-39-3		38.3	ug/L	95.8	70 - 130	4.50	20		02/14/11
Beryllium	7440-41-7		38.2	ug/L	95.6	70 - 130	2.30	20		02/14/11
Cadmium	7440-43-9		36.6	ug/L	91.6	70 - 130	3.50	20		02/14/11
Chromium	7440-47-3		38.4	ug/L	96.1	70 - 130	1.30	20		02/14/11
Cobalt	7440-48-4		37.0	ug/L	92.6	70 - 130	1.20	20		02/14/11
Copper	7440-50-8		36.5	ug/L	91.2	70 - 130	1.10	20		02/14/11
Vanadium	7440-62-2		39.9	ug/L	99.7	70 - 130	1.10	20		02/14/11
Zinc	7440-66-6		34.0	ug/L	85	70 - 130	2.40	20		02/14/11
Lead	7439-92-1		39.4	ug/L	98.4	70 - 130	2.30	20		02/14/11
Mercury	7439-97-6		1.88	ug/L	93.8	70 - 130	3.10	20		02/14/11
Molybdenum	7439-98-7		40.1	ug/L	100.3	70 - 130	3.20	20		02/14/11
Strontium	7440-24-6		42.5	ug/L	106.2	70 - 130	6.90	20		02/14/11
Thallium	7440-28-0		39.7	ug/L	99.3	70 - 130	3.70	20		02/14/11
Tin	7440-31-5		39.1	ug/L	97.9	70 - 130	2.70	20		02/14/11
Uranium	7440-61-1		41.8	ug/L	104.5	70 - 130	2.90	20		02/14/11
Arsenic	7440-38-2		37.4	ug/L	93.6	70 - 130	1.20	20		02/14/11
Selenium	7782-49-2		33.4	ug/L	83.5	70 - 130	7.90	20		02/14/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

QC Batch 176762
Associated Samples 111421001

Test ICP-2008 MS All possible metal

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #48940**						
Aluminum	7429-90-5		<5.0	ug/L				U	02/16/11
Manganese	7439-96-5		<0.10	ug/L				U	02/16/11
Nickel	7440-02-0		<0.20	ug/L				U	02/16/11
Silver	7440-22-4		<0.10	ug/L				U	02/16/11
Antimony	7440-36-0		<0.30	ug/L				U	02/16/11
Barium	7440-39-3		<0.20	ug/L				U	02/16/11
Beryllium	7440-41-7		<0.10	ug/L				U	02/16/11
Cadmium	7440-43-9		<0.10	ug/L				U	02/16/11
Chromium	7440-47-3		<0.50	ug/L				U	02/16/11
Cobalt	7440-48-4		<0.050	ug/L				U	02/16/11
Copper	7440-50-8		<0.10	ug/L				U	02/16/11
Vanadium	7440-62-2		<0.20	ug/L				U	02/16/11
Zinc	7440-66-6		0.849	ug/L				B	02/16/11
Lead	7439-92-1		<0.10	ug/L				U	02/16/11
Mercury	7439-97-6		<0.050	ug/L				U	02/16/11
Molybdenum	7439-98-7		<0.050	ug/L				U	02/16/11
Strontium	7440-24-6		<0.10	ug/L				U	02/16/11
Thallium	7440-28-0		<0.050	ug/L				U	02/16/11
Tin	7440-31-5		<0.050	ug/L				U	02/16/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Uranium	7440-61-1		<0.050	ug/L					U	02/16/11
Arsenic	7440-38-2		<0.40	ug/L					U	02/16/11
Selenium	7782-49-2		<0.30	ug/L					U	02/16/11
LCS			**QC Sample #48941**							
Aluminum	7429-90-5		387	ug/L	96.7	85 - 115				02/16/11
Manganese	7439-96-5		39.0	ug/L	97.6	85 - 115				02/16/11
Nickel	7440-02-0		38.9	ug/L	97.3	85 - 115				02/16/11
Silver	7440-22-4		41.7	ug/L	104.3	85 - 115				02/16/11
Antimony	7440-36-0		39.0	ug/L	97.5	85 - 115				02/16/11
Barium	7440-39-3		39.2	ug/L	98.1	85 - 115				02/16/11
Beryllium	7440-41-7		40.3	ug/L	100.8	85 - 115				02/16/11
Cadmium	7440-43-9		38.5	ug/L	96.4	85 - 115				02/16/11
Chromium	7440-47-3		39.9	ug/L	99.8	85 - 115				02/16/11
Cobalt	7440-48-4		39.4	ug/L	98.6	85 - 115				02/16/11
Copper	7440-50-8		38.8	ug/L	97.1	85 - 115				02/16/11
Vanadium	7440-62-2		39.0	ug/L	97.6	85 - 115				02/16/11
Zinc	7440-66-6		36.0	ug/L	90	85 - 115				02/16/11
Lead	7439-92-1		40.5	ug/L	101.3	85 - 115				02/16/11
Mercury	7439-97-6		1.88	ug/L	94	85 - 115				02/16/11
Molybdenum	7439-98-7		40.3	ug/L	100.7	85 - 115				02/16/11
Strontium	7440-24-6		39.8	ug/L	99.4	85 - 115				02/16/11
Thallium	7440-28-0		40.9	ug/L	102.3	85 - 115				02/16/11
Tin	7440-31-5		40.0	ug/L	100	85 - 115				02/16/11
Uranium	7440-61-1		40.7	ug/L	101.7	85 - 115				02/16/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Arsenic	7440-38-2		38.6	ug/L	96.4	85 - 115				02/16/11
Selenium	7782-49-2		35.9	ug/L	89.8	85 - 115				02/16/11
MS			**QC Sample #48942**							
			Original 111369001							
Aluminum	7429-90-5		385	ug/L	96.3	70 - 130				02/16/11
Manganese	7439-96-5		37.4	ug/L	93.5	70 - 130				02/16/11
Nickel	7440-02-0		37.9	ug/L	94.6	70 - 130				02/16/11
Silver	7440-22-4		39.2	ug/L	97.9	70 - 130				02/16/11
Antimony	7440-36-0		38.8	ug/L	97.1	70 - 130				02/16/11
Barium	7440-39-3		37.8	ug/L	94.4	70 - 130				02/16/11
Beryllium	7440-41-7		40.4	ug/L	101.1	70 - 130				02/16/11
Cadmium	7440-43-9		37.5	ug/L	93.7	70 - 130				02/16/11
Chromium	7440-47-3		39.4	ug/L	98.4	70 - 130				02/16/11
Cobalt	7440-48-4		38.2	ug/L	95.4	70 - 130				02/16/11
Copper	7440-50-8		37.2	ug/L	92.9	70 - 130				02/16/11
Vanadium	7440-62-2		39.0	ug/L	97.4	70 - 130				02/16/11
Zinc	7440-66-6		35.9	ug/L	89.8	70 - 130				02/16/11
Lead	7439-92-1		40.1	ug/L	100.2	70 - 130				02/16/11
Mercury	7439-97-6		1.96	ug/L	97.9	70 - 130				02/16/11
Molybdenum	7439-98-7		39.8	ug/L	99.4	70 - 130				02/16/11
Strontium	7440-24-6		37.2	ug/L	93	70 - 130				02/16/11
Thallium	7440-28-0		40.6	ug/L	101.5	70 - 130				02/16/11
Tin	7440-31-5		39.2	ug/L	98	70 - 130				02/16/11
Uranium	7440-61-1		41.3	ug/L	103.2	70 - 130				02/16/11
Arsenic	7440-38-2		38.5	ug/L	96.2	70 - 130				02/16/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111421

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Selenium	7782-49-2		38.3	ug/L	95.7	70 - 130				02/16/11
MSD			**QC Sample #48943**							
			Original 111369001						**Paired 48942**	
Aluminum	7429-90-5		383	ug/L	95.8	70 - 130	0.50	20		02/16/11
Manganese	7439-96-5		37.8	ug/L	94.5	70 - 130	1.10	20		02/16/11
Nickel	7440-02-0		37.5	ug/L	93.8	70 - 130	0.80	20		02/16/11
Silver	7440-22-4		39.7	ug/L	99.2	70 - 130	1.30	20		02/16/11
Antimony	7440-36-0		39.3	ug/L	98.2	70 - 130	1.10	20		02/16/11
Barium	7440-39-3		39.0	ug/L	97.4	70 - 130	3.10	20		02/16/11
Beryllium	7440-41-7		40.2	ug/L	100.5	70 - 130	0.60	20		02/16/11
Cadmium	7440-43-9		38.1	ug/L	95.2	70 - 130	1.60	20		02/16/11
Chromium	7440-47-3		39.2	ug/L	98	70 - 130	0.40	20		02/16/11
Cobalt	7440-48-4		38.2	ug/L	95.4	70 - 130	0.00	20		02/16/11
Copper	7440-50-8		37.2	ug/L	93	70 - 130	0.10	20		02/16/11
Vanadium	7440-62-2		39.4	ug/L	98.6	70 - 130	1.20	20		02/16/11
Zinc	7440-66-6		35.3	ug/L	88.3	70 - 130	1.70	20		02/16/11
Lead	7439-92-1		40.6	ug/L	101.4	70 - 130	1.20	20		02/16/11
Mercury	7439-97-6		1.90	ug/L	95.2	70 - 130	2.80	20		02/16/11
Molybdenum	7439-98-7		40.6	ug/L	101.4	70 - 130	2.00	20		02/16/11
Strontium	7440-24-6		40.0	ug/L	100	70 - 130	7.30	20		02/16/11
Thallium	7440-28-0		41.0	ug/L	102.4	70 - 130	0.90	20		02/16/11
Tin	7440-31-5		39.7	ug/L	99.3	70 - 130	1.30	20		02/16/11
Uranium	7440-61-1		41.6	ug/L	104.1	70 - 130	0.90	20		02/16/11
Arsenic	7440-38-2		39.9	ug/L	99.7	70 - 130	3.60	20		02/16/11
Selenium	7782-49-2		34.8	ug/L	87.1	70 - 130	9.40	20		02/16/11

Quality Control Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

QC Batch 176256
Associated Samples 111421001, 111421002, 111421003

Test SW-846 8260B Volatiles, separate prep

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #111421001**							
1,2-Dichloroethane-d4	17060-07-0				104.3	75 - 125				02/08/11
Toluene-d8	2037-26-5				95.1	75 - 125				02/08/11
4-Bromofluorobenzene	460-00-4				81.3	75 - 125				02/08/11
SAMPLE			**Sample #111421002**							
1,2-Dichloroethane-d4	17060-07-0				102.7	75 - 125				02/08/11
Toluene-d8	2037-26-5				95	75 - 125				02/08/11
4-Bromofluorobenzene	460-00-4				82.3	75 - 125				02/08/11
SAMPLE			**Sample #111421003**							
1,2-Dichloroethane-d4	17060-07-0				106	75 - 125				02/08/11
Toluene-d8	2037-26-5				95.7	75 - 125				02/08/11
4-Bromofluorobenzene	460-00-4				81.6	75 - 125				02/08/11
BLANK			**QC Sample #48555**							
1,2-Dichloroethane-d4	17060-07-0				100.9	75 - 125				02/08/11
Toluene-d8	2037-26-5				92	75 - 125				02/08/11

Quality Control Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF111421

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
4-Bromofluorobenzene	460-00-4				83.1	75 - 125				02/08/11
LCS			**QC Sample #48556**							
1,2-Dichloroethane-d4	17060-07-0				96.4	75 - 125				02/08/11
Toluene-d8	2037-26-5				99.4	75 - 125				02/08/11
4-Bromofluorobenzene	460-00-4				101.8	75 - 125				02/08/11
MS			**QC Sample #48557**							
			Original	**111405001**						
1,2-Dichloroethane-d4	17060-07-0				97	75 - 125				02/08/11
Toluene-d8	2037-26-5				99.4	75 - 125				02/08/11
4-Bromofluorobenzene	460-00-4				103.1	75 - 125				02/08/11
MSD			**QC Sample #48558**							
			Original	**111405001**					**Paired**	**48557**
1,2-Dichloroethane-d4	17060-07-0				98.8	75 - 125	1.80	20		02/08/11
Toluene-d8	2037-26-5				98.8	75 - 125	0.60	20		02/08/11
4-Bromofluorobenzene	460-00-4				103.2	75 - 125	0.10	20		02/08/11

Attention: Michael Neely

Group # WSCF111421

Quality Control Comments

Department Inorganic

48404 B26RV2(111405001MSD)

Analyte Sulfate - Anions by Ion Chromatography (Water)
[1] Matrix Spike RPD outside established laboratory limits No flags assigned.

49936 B2B040(111366034MS)

Analyte Calcium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Magnesium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Potassium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Silicon - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Sodium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

49937 B2B040(111366034MSD)

Analyte Calcium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Magnesium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Potassium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Silicon - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Sodium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 5 pages
Including cover page

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory
PO Box 650 S3-30
Richland, WA 99352

ATTN: Michael Neely

Customer Code: CHPRC
PO #: 401980/ES20
Work Order #: 111421
Profile #: F10-197-096
Proj. Mgr.:
Phone:

The following samples were received from you on 2/3/2011 3:25:00 PM. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample #	Sample ID	Matrix	Collected	Received
		Tests scheduled		
111421001	B2B928	WATER	2/3/2011 12:52	2/3/2011 15:25
		2008-W; 6010-W; 8260V-W; ALK-W; IC-W		
111421002	B2B929	WATER	2/3/2011 12:52	2/3/2011 15:25
		2008-W; 6010-W; 8260V-W; ALK-W; IC-W		
111421003	B2B930	WATER	2/3/2011 12:52	2/3/2011 15:25
		8260V-W		

Test Acronym Description

Test Acronym	Description
2008-W	ICP-MS (W)
6010-W	ICP-AES (W)
8260V-W	Volatiles by 8260B (W)
ALK-W	Total Alkalinity (W)
IC-W	Anions by IC (W)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F10-197-086	PAGE 1 OF 1
COLLECTOR: Rosanne Rust Higuera	COMPANY CONTACT: RADLOFF, AW	TELEPHONE NO.: 376-4554	PROJECT COORDINATOR: RADLOFF, AW	PRICE CODE: 7H	DATA TURNAROUND: 30 Days / 30 Days
SAMPLING LOCATION: C7662 (399-4-15); I-020	PROJECT DESIGNATION: 300 Area Remedial Investigation/Feasibility Analysis - 300-FF-5 Water		SAF NO.: F10-197	AIR QUALITY: ☐	
ICE CHEST NO.:	FIELD LOGBOOK NO.: HNF-N 563-2 pg 96	ACTUAL SAMPLE DEPTH: 99.8	COA: 3002065510	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air; DL=Drum Liquids; DS=Drum Solids; L=Liquid; O=Oil; S=Soil; SE=Sediment; T=Tissue; V=Vegetation; W=Water; WI=Well; X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

111421

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HC or H2SO4 to pH__	HNO3 to pH <2	Cool=4C	Cool=4C
HOLDING TIME	14 Days	6 Months	48 Hours	14 Days
TYPE OF CONTAINER	aGr	G/P	P	G/P
NO. OF CONTAINER(S)	3	1	1	1
VOLUME	40ml	500ml	500ml	250ml
SAMPLE ANALYSIS	VOA - 8260 (TIC, 300 Area RI/FS);	SEE ITEM (1) IN SPECIAL INSTRUCTIONS ✓	IC Anions - 300.0 (300 Area RI/FS) ✓	2320_ALKALINITY (Medium); ✓

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B29928	WATER	2-3-11	1252	✓	✓	✓	✓

ORIGINAL

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM: Larry Romine - Larry Romine 2-3-11	DATE/TIME: 1450	RECEIVED BY/STORED IN: Melissa Melville 2-3-11	DATE/TIME: 1450	** The CACN for WSCF Analytical is 401980ES20.☐** The 300 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.☐☐** The laboratory is to report all TICs for Method 8260. (1) ICP/MS - 200.8 (300 Area RI/FS); ICP/MS - 200.8 (Add-on 300 Area RI/FS) {Uranium}; 200.8_HG - ICPMS (300 Area RI/FS) {Mercury}; ICP Metals - 6010 (300 Area RI/FS);
RELINQUISHED BY/REMOVED FROM: Melissa Melville 2-3-11	DATE/TIME: 1525	RECEIVED BY/STORED IN: Michelle Michel 2-3-11	DATE/TIME: 1525	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F10-197-097	PAGE 1 OF 1
COLLECTOR: Rosane Rust Higuera	COMPANY CONTACT: RADLOFF, AW	TELEPHONE NO.: 376-4154	PROJECT COORDINATOR: RADLOFF, AW	PRICE CODE: 7H	DATA TURNAROUND: 30 Days / 30 Days
SAMPLING LOCATION: C7662 (399-4-15); I-020 DUP	PROJECT DESIGNATION: 300 Area Remedial Investigation/Feasibility Analysis - 300-FF-5 Water		SAF NO.: F10-197	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-503-2 pg 96	ACTUAL SAMPLE DEPTH: 99.8	COA: 300206ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegetation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2	HNO3 to pH <2	Cool-4C	Cool-4C
HOLDING TIME	14 Days	6 Months	48 Hours	14 Days
TYPE OF CONTAINER	aGS	G/P	P	G/P
NO. OF CONTAINER(S)	3	1	1	1
VOLUME	40mL	500mL	500mL	250mL
SAMPLE ANALYSIS	VOA - 8260 (TCL 300 Area RI/FS)	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	IC Anions 300.0 (300 Area RI/FS)	2320_ALKALINITY (Alkalinity)

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B2B929 2	WATER	2-3-11	1252	✓	✓	✓	✓

ORIGINAL

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Larry Rosane Larry Rosane 2-3-11	DATE/TIME: 1450	RECEIVED BY/STORED IN: Nathan Mathis 2-3-11	DATE/TIME: 1450
RELINQUISHED BY/REMOVED FROM: Nathan Mathis 2-3-11	DATE/TIME: 1525	RECEIVED BY/STORED IN: M Nelson 2-3-11	DATE/TIME: 1525
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** The CACN for WSCF Analytical is 401980ES20.☐** The 300 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.☐☐** The laboratory is to report all TICs for Method 8260. (1) ICP/MS - 200.8 (300 Area RI/FS); ICP/MS - 200.8 (Add-on 300 Area RI/FS) {Uranium}; 200.8_HG - ICPMS (300 Area RI/FS) {Mercury}; ICP Metals - 6010 (300 Area RI/FS);

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F10-197-098 | PAGE 1 OF 1

COLLECTOR: Rosane Rost Higuera

SAMPLING LOCATION: C7662 (399-4-15); 1-020 FOR

ICE CHEST NO.:

SHIPPED TO: Waste Sampling & Characterization

COMPANY CONTACT: RADLOFF, AW

TELEPHONE NO.: 376-4554

PROJECT COORDINATOR: RADLOFF, AW

PRICE CODE: 7H

DATA TURNAROUND: 30 Days / 30 Days

AIR QUALITY: ☐

PROJECT DESIGNATION: 300 Area Remedial Investigation/Feasibility Analysis - 300-FF-5 Water

SAF NO.: F10-197

FIELD LOGBOOK NO.: HNE-N-503-2 pg 96

ACTUAL SAMPLE DEPTH: 99.8

COA: 300206ES10

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

OFFSITE PROPERTY NO.: N/A

BILL OF LADING/AIR BILL NO.: N/A

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegetation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE:

PRESERVATION	HCl or H2SO4 to pH <2/Cool-4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL 300 Area 8260)

SAMPLE NO.		MATRIX*	SAMPLE DATE	SAMPLE TIME	
BZB930	3	WATER	2-3-11	1252	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosano	2-3-11 1450	Mark Miller	2-3-11 1450
Mark Miller	2-3-11 1525	M Nasman	2-3-11 1525

SPECIAL INSTRUCTIONS

** The CACN for WSCF Analytical is 401980ES20.☐** The 300 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.☐☐** The laboratory is to report all TICs for Method 8260.

ORIGINAL

LABORATORY SECTION: RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION: DISPOSAL METHOD | DISPOSED BY | DATE/TIME

A-6033-418 (REV 2)