WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352

RECEIVED JANUARY 07, 2011

0099325

January 6, 2011

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

Dear Michael Neely,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF103275

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 WSCF103275

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

Very truly yours,

Electronically signed by Jenny Filipy
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 # WSCF103275
Data Deliverable Date 01/06/11

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
X11-005	B27WY0	103275001	WATER	12/07/10	12/07/10
X11-005	B27WY8	103275002	WATER	12/07/10	12/07/10
X11-005	B27WM6	103275003	WATER	12/07/10	12/07/10
X11-005	B27WY1	103275004	WATER	12/07/10	12/07/10
X11-005	B27WY9	103275005	WATER	12/07/10	12/07/10
X11-005	B27WM7	103275006	WATER	12/07/10	12/07/10

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Attachment 2
Narrative
WSCF103275

Introduction

Six (6) groundwater samples were received at the WSCF Laboratory on December 7, 2010. 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

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):

- Batch QC 170861 analyzed on sample# B27WY0 (10327500I)
  - Iron and Chromium – Matrix Spike and/or Matrix Spike Duplicate recoveries are outside established laboratory limits. Affected sample results in this batch were "N" flagged.

1

Attachment 2
Narrative
WSCF103275

- Sodium, Bismuth and Silicon were detected in the Blank and were evaluated. Affected sample results in this batch were "C" Flagged.

- Calcium, Magnesium, Silicon and Sodium – 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 172560 analyzed on sample# B28834 (103258006)

All 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):

- Batch QC 171080 analyzed on sample# B288R7 (103209028)

- Batch QC 172524 analyzed on sample# B27WM7 (103275006)

All applicable QC controls are within the established limits.

Organic Comments

TPHD-WA – 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 170926 analyzed on sample# B29C66 (103264003)

  - o-Terphenyl – Extractable Diesel and Petroluem – Matrix Spike Relative Percent Difference(s) outside established laboratory limits. No Flags assigned.

All other applicable QC controls are within the established limits.

Radiochemistry Comments

Rad Chem – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike (Matrix Spikes apply only to Technetium & Tritium), Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Tracers are used to determine chemical yield. RPD is monitored in sample duplicate and is not required for tracer recovery per SOW.

- Americium-241:

- Batch QC 172532 analyzed on sample# B27WY1 (103275004)

All applicable QC controls are within the established limits.

- Technetium-99:
  - Batch QC 171045 analyzed on sample# B27WY1 (103275004)
    - Duplicate Relative Percent Difference(s) (RPD) did not meet the established laboratory limits. RPD limit does not apply to results near the Minimum Detectable Concentration.

All other applicable QC controls are within the established limits.

- Tritium:
  - Batch QC 171070 analyzed on sample# B27WY1 (103275004)

All applicable QC controls are within the established limits.

- Gross Alpha / Gross Beta:
  - Batch QC 170857 analyzed on sample# B283W8 (103249005)
  - Batch QC 170858 analyzed on sample# B27WY9 (103275005)

All applicable QC controls are within the established limits.

- Strontium-89/90:
  - Batch QC 172472 analyzed on sample# B286C3 (103250003)
  - Batch QC 172473 analyzed on sample# B27WY9 (103275005)

All applicable QC controls are within the established limits.

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 64 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 #	WSCF103275
Report Date	January 6, 2011

Analytical: Electronically signed by Jenny Filipy

Client Services: Electronically signed by Marisol Avila

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 # WSCF103275

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
170861	173238	1	BLANK	43572	BLANK		ICP-6010 - All possible metals
170861	173238	2	LCS	43573	LCS		ICP-6010 - All possible metals
170861	173238	3	MS	43574	B27WY0(103275001MS)	103275001	ICP-6010 - All possible metals
170861	173238	4	MSD	43575	B27WY0(103275001MSD	103275001	ICP-6010 - All possible metals
170861	173238	5	SAMPLE	103275001	B27WY0		ICP-6010 - All possible metals
170861	173238	6	SAMPLE	103275002	B27WY8		ICP-6010 - All possible metals
170861	173238	7	SAMPLE	103275003	B27WM6		ICP-6010 - All possible metals
170861	173238	8	SAMPLE	103275004	B27WY1		ICP-6010 - All possible metals
170861	173238	9	SAMPLE	103275005	B27WY9		ICP-6010 - All possible metals
170861	173238	10	SAMPLE	103275006	B27WM7		ICP-6010 - All possible metals
172560	172561	4	BLANK	44516	BLANK		ICP-2008 MS All possible metal
172560	172561	5	LCS	44517	LCS		ICP-2008 MS All possible metal
172560	172561	6	MS	44518	B28834(103258006MS)	103258006	ICP-2008 MS All possible metal
172560	172561	7	MSD	44519	B28834(103258006MSD)	103258006	ICP-2008 MS All possible metal
172560	172561	12	SAMPLE	103275001	B27WY0		ICP-2008 MS All possible metal
172560	172561	13	SAMPLE	103275002	B27WY8		ICP-2008 MS All possible metal
172560	172561	16	SAMPLE	103275003	B27WM6		ICP-2008 MS All possible metal
172560	172561	17	SAMPLE	103275004	B27WY1		ICP-2008 MS All possible metal
172560	172561	18	SAMPLE	103275005	B27WY9		ICP-2008 MS All possible metal
172560	172561	19	SAMPLE	103275006	B27WM7		ICP-2008 MS All possible metal

Batch QC List

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF103275

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
170926	172157	1	BLANK	43768	BLANK		Extractable Diesel and Petroleum
170926	172157	2	LCS	43769	LCS		Extractable Diesel and Petroleum
170926	172157	3	MS	43770	B29C66(103264003MS)	103264003	Extractable Diesel and Petroleum
170926	172157	4	MSD	43771	B29C66(103264003MSD)	103264003	Extractable Diesel and Petroleum
170926	172157	6	SAMPLE	103275005	B27WY9		Extractable Diesel and Petroleum
170926	172157	8	SAMPLE	103275004	B27WY1		Extractable Diesel and Petroleum
170926	172157	10	SAMPLE	103275006	B27WM7		Extractable Diesel and Petroleum

Batch QC List

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
170857	171058	1	BLANK	43582	BLANK		Gross Alpha/Gross Beta
170857	171058	2	LCS	43583	LCS		Gross Alpha/Gross Beta
170857	171058	3	DUP	43584	B283W8(103249005DUP)	103249005	Gross Alpha/Gross Beta
170857	171058	14	SAMPLE	103275004	B27WY1		Gross Alpha/Gross Beta
170857	171058	15	SAMPLE	103275004	B27WY1		Gross Alpha/Gross Beta
170858	171063	1	BLANK	43562	BLANK		Gross Alpha/Gross Beta
170858	171063	2	LCS	43563	LCS		Gross Alpha/Gross Beta
170858	171063	3	SAMPLE	103275005	B27WY9		Gross Alpha/Gross Beta
170858	171063	4	SAMPLE	103275005	B27WY9		Gross Alpha/Gross Beta
170858	171063	5	DUP	43564	B27WY9(103275005DUP	103275005	Gross Alpha/Gross Beta
170858	171063	6	SAMPLE	103275006	B27WM7		Gross Alpha/Gross Beta
170858	171063	7	SAMPLE	103275006	B27WM7		Gross Alpha/Gross Beta
171045	171076	1	BLANK	43878	BLANK		TC99 by Liquid Scintillation
171045	171076	2	LCS	43879	LCS		TC99 by Liquid Scintillation
171045	171076	3	SAMPLE	103275004	B27WY1		TC99 by Liquid Scintillation
171045	171076	4	DUP	43880	B27WY1(103275004DUP	103275004	TC99 by Liquid Scintillation
171045	171076	5	MS	43881	B27WY1(103275004MS)	103275004	TC99 by Liquid Scintillation
171045	171076	6	SAMPLE	103275005	B27WY9		TC99 by Liquid Scintillation
171045	171076	7	SAMPLE	103275006	B27WM7		TC99 by Liquid Scintillation
171070	171944	1	BLANK	43920	BLANK		Tritium by LSC
171070	171944	2	LCS	43921	LCS		Tritium by LSC
171070	171944	3	SAMPLE	103275004	B27WY1		Tritium by LSC
171070	171944	4	DUP	43922	B27WY1(103275004DUP	103275004	Tritium by LSC

Batch QC List

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
171070	171944	5	MS	43923	B27WY1(103275004MS)	103275004	Tritium by LSC
171070	171944	6	SAMPLE	103275005	B27WY9		Tritium by LSC
171070	171944	7	SAMPLE	103275006	B27WM7		Tritium by LSC
172472	173195	1	BLANK	44212	BLANK		Strontium 89/90 (GPC/GEA)
172472	173195	2	LCS	44213	LCS		Strontium 89/90 (GPC/GEA)
172472	173195	3	DUP	44214	B286C3(103250003DUP)	103250003	Strontium 89/90 (GPC/GEA)
172472	173195	10	SAMPLE	103275004	B27WY1		Strontium 89/90 (GPC/GEA)
172473	172907	1	BLANK	44215	BLANK		Strontium 89/90 (GPC/GEA)
172473	172907	2	LCS	44216	LCS		Strontium 89/90 (GPC/GEA)
172473	172907	3	DUP	44217	B27WY9(103275005DUP	103275005	Strontium 89/90 (GPC/GEA)
172473	172907	4	SAMPLE	103275005	B27WY9		Strontium 89/90 (GPC/GEA)
172473	172907	5	SAMPLE	103275006	B27WM7		Strontium 89/90 (GPC/GEA)
172532	173206	1	BLANK	44471	BLANK		Americium/Curium (AEA)
172532	173206	2	LCS	44472	LCS		Americium/Curium (AEA)
172532	173206	3	SAMPLE	103275004	B27WY1		Americium/Curium (AEA)
172532	173206	4	DUP	44473	B27WY1(103275004DUP	103275004	Americium/Curium (AEA)
172532	173206	5	SAMPLE	103275005	B27WY9		Americium/Curium (AEA)
172532	173206	6	SAMPLE	103275006	B27WM7		Americium/Curium (AEA)

Batch QC List

Attention Michael Neely
Department Wet Chemistry

Group # WSCF103275

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
171080	171080	1	LCS	43936	LCS		Total Alkalinity as mg/L CaCO3 (Water)
171080	171080	2	DUP	43937	B288R7(103209028DUP)	103209028	Total Alkalinity as mg/L CaCO3 (Water)
171080	171080	5	SAMPLE	103275004	B27WY1		Total Alkalinity as mg/L CaCO3 (Water)
171080	171080	6	SAMPLE	103275005	B27WY9		Total Alkalinity as mg/L CaCO3 (Water)
172524	172524	1	LCS	44449	LCS		Total Alkalinity as mg/L CaCO3 (Water)
172524	172524	2	DUP	44450	B27WM7(103275006DUP	103275006	Total Alkalinity as mg/L CaCO3 (Water)
172524	172524	3	SAMPLE	103275006	B27WM7		Total Alkalinity as mg/L CaCO3 (Water)

Method Reference

Attention	Michael Neely	**Group #**	WSCF103275
Department	Inorganic		

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.

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, Semivolatiles

Group # WSCF103275

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-523-493	NWTPH-Dx, Extractible Diesel and Petroleum Productions Analysis in Soil and Water		
	WDOE	WDOE	Total Petroleum Hydrocarbons in Diesel
	HEIS	WTPH_DIESEL	TPH Diesel

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 Radiochemistry

Group # WSCF103275

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-220-406	Strontium-89 and 90 in Aqueous Samples by SR-SPEC Separation		
	HEIS	SRTOT_SEP_PRECIP_GPC	Strontium 89/90, by Sr-Spec Sep.
LA-508-471	Determination Of Uranium, Plutonium, And Americium		
	HEIS	AMCMISO_IE_PREC_AEA	Americium/Curium Iso, Alpha Spec
LA-508-421	Operation of the Tri-Carb Model 2500TR Liquid Scintillation Analyzer		
	HEIS	ALPHA_LSC	A/B Liquid Scintillation
	HEIS	BETA_LSC	A/B Liquid Scintillation
	HEIS	TC99_3MDSK_LSC	TC99 by Liquid Scintillation
	HEIS	TRITIUM_EIE_LSC	Tritium, by Eichrome ion exchange, LSC
LA-508-415	Operation Of The Protean 2-Inch Alpha/Beta Counting System For Gross Alpha/ Beta Samples		
	HEIS	ALPHA_GPC	Gross Alpha by GPC
	HEIS	BETA_GPC	Gross Beta by GPC
	HEIS	SRTOT_SEP_PRECIP_GPC	Strontium beta isotopic, GPC

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 # WSCF103275

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 # WSCF103275

Sample # 103275001
SAF# X11-005
Sample ID B27WY0

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICP Prep										**12/08/10**
ICP-AES										
Aluminum	7429-90-5	LA-505-411	B	44.0		ug/L	1	19	95	01/04/11
Iron	7439-89-6	LA-505-411	N	1760		ug/L	1	38	190	01/04/11
Magnesium	7439-95-4	LA-505-411		7450		ug/L	1	14	70	01/04/11
Manganese	7439-96-5	LA-505-411	B	17.0		ug/L	1	6.0	30	01/04/11
Nickel	7440-02-0	LA-505-411	B	16.0		ug/L	1	4.0	20	01/04/11
Potassium	7440-09-7	LA-505-411		5100		ug/L	1	73	360	01/04/11
Silver	7440-22-4	LA-505-411	U	<7.0		ug/L	1	7.0	35	01/04/11
Sodium	7440-23-5	LA-505-411		21800		ug/L	1	11	55	01/04/11
Antimony	7440-36-0	LA-505-411	U	<47		ug/L	1	47	240	01/04/11
Barium	7440-39-3	LA-505-411	B	16.0		ug/L	1	4.0	20	01/04/11
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Chromium	7440-47-3	LA-505-411	N	288		ug/L	1	14	70	01/04/11
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Copper	7440-50-8	LA-505-411	U	<5.0		ug/L	1	5.0	25	01/04/11
Vanadium	7440-62-2	LA-505-411	U	<17		ug/L	1	17	85	01/04/11
Zinc	7440-66-6	LA-505-411	B	8.00		ug/L	1	4.0	20	01/04/11
Calcium	7440-70-2	LA-505-411		24600		ug/L	1	28	140	01/04/11

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 # WSCF103275

Sample # 103275001
SAF# X11-005
Sample ID B27WY0

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Lead	7439-92-1	LA-505-411	U	<42		ug/L	1	42	210	01/04/11
Lithium	7439-93-2	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Molybdenum	7439-98-7	LA-505-411	B	4.00		ug/L	1	4.0	20	01/04/11
Strontium	7440-24-6	LA-505-411		151		ug/L	1	4.0	20	01/04/11
Thallium	7440-28-0	LA-505-411	U	<49		ug/L	1	49	240	01/04/11
Tin	7440-31-5	LA-505-411	U	<49		ug/L	1	49	240	01/04/11
Arsenic	7440-38-2	LA-505-411	U	<50		ug/L	1	50	250	01/04/11
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Boron	7440-42-8	LA-505-411	U	<41		ug/L	1	41	200	01/04/11
Bismuth	7440-69-9	LA-505-411	U	<37		ug/L	1	37	180	01/04/11
Silicon	7440-21-3	LA-505-411		16900		ug/L	1	25	120	01/04/11
Phosphorus	7723-14-0	LA-505-411	U	<72		ug/L	1	72	360	01/04/11
Selenium	7782-49-2	LA-505-411	U	<47		ug/L	1	47	240	01/04/11
ICPMS Prep										**12/20/10**
ICP-MS										
Aluminum	7429-90-5	LA-505-412	UD	<10		ug/L	2	10	200	12/27/10
Silver	7440-22-4	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	12/27/10
Barium	7440-39-3	LA-505-412	D	15.6		ug/L	2	0.40	4.0	12/27/10

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 # WSCF103275

Sample # 103275001
SAF# X11-005
Sample ID B27WY0

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Beryllium	7440-41-7	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Cadmium	7440-43-9	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Chromium	7440-47-3	LA-505-412	UD	<1.0		ug/L	2	1.0	10	12/27/10
Cobalt	7440-48-4	LA-505-412	UD	<0.10		ug/L	2	0.10	0.50	12/27/10
Copper	7440-50-8	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Lead	7439-92-1	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	12/27/10
Molybdenum	7439-98-7	LA-505-412	D	9.38		ug/L	2	0.10	1.0	12/27/10
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Arsenic	7440-38-2	LA-505-412	BD	4.40		ug/L	2	0.80	8.0	12/27/10
Selenium	7782-49-2	LA-505-412	BD	0.955		ug/L	2	0.60	6.0	12/27/10

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 # WSCF103275

Sample # 103275002
SAF# X11-005
Sample ID B27WY8

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICP Prep										**12/08/10**
ICP-AES										
Aluminum	7429-90-5	LA-505-411	U	<19		ug/L	1	19	95	01/04/11
Iron	7439-89-6	LA-505-411	UN	<38		ug/L	1	38	190	01/04/11
Magnesium	7439-95-4	LA-505-411	U	<14		ug/L	1	14	70	01/04/11
Manganese	7439-96-5	LA-505-411	U	<6.0		ug/L	1	6.0	30	01/04/11
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Potassium	7440-09-7	LA-505-411	U	<73		ug/L	1	73	360	01/04/11
Silver	7440-22-4	LA-505-411	U	<7.0		ug/L	1	7.0	35	01/04/11
Sodium	7440-23-5	LA-505-411	BC	11.0		ug/L	1	11	55	01/04/11
Antimony	7440-36-0	LA-505-411	U	<47		ug/L	1	47	240	01/04/11
Barium	7440-39-3	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Chromium	7440-47-3	LA-505-411	UN	<14		ug/L	1	14	70	01/04/11
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Copper	7440-50-8	LA-505-411	U	<5.0		ug/L	1	5.0	25	01/04/11
Vanadium	7440-62-2	LA-505-411	U	<17		ug/L	1	17	85	01/04/11
Zinc	7440-66-6	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Calcium	7440-70-2	LA-505-411	U	<28		ug/L	1	28	140	01/04/11

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 # WSCF103275

Sample # 103275002
SAF# X11-005
Sample ID B27WY8

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Lead	7439-92-1	LA-505-411	U	<42		ug/L	1	42	210	01/04/11
Lithium	7439-93-2	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Molybdenum	7439-98-7	LA-505-411	B	4.00		ug/L	1	4.0	20	01/04/11
Strontium	7440-24-6	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Thallium	7440-28-0	LA-505-411	U	<49		ug/L	1	49	240	01/04/11
Tin	7440-31-5	LA-505-411	U	<49		ug/L	1	49	240	01/04/11
Arsenic	7440-38-2	LA-505-411	U	<50		ug/L	1	50	250	01/04/11
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Boron	7440-42-8	LA-505-411	U	<41		ug/L	1	41	200	01/04/11
Bismuth	7440-69-9	LA-505-411	U	<37		ug/L	1	37	180	01/04/11
Silicon	7440-21-3	LA-505-411	U	<25		ug/L	1	25	120	01/04/11
Phosphorus	7723-14-0	LA-505-411	U	<72		ug/L	1	72	360	01/04/11
Selenium	7782-49-2	LA-505-411	U	<47		ug/L	1	47	240	01/04/11
ICPMS Prep										**12/20/10**
ICP-MS										
Aluminum	7429-90-5	LA-505-412	UD	<10		ug/L	2	10	200	12/27/10
Silver	7440-22-4	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	12/27/10
Barium	7440-39-3	LA-505-412	UD	<0.40		ug/L	2	0.40	4.0	12/27/10

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)
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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 # WSCF103275

Sample # 103275002
SAF# X11-005
Sample ID B27WY8

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Beryllium	7440-41-7	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Cadmium	7440-43-9	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Chromium	7440-47-3	LA-505-412	UD	<1.0		ug/L	2	1.0	10	12/27/10
Cobalt	7440-48-4	LA-505-412	UD	<0.10		ug/L	2	0.10	0.50	12/27/10
Copper	7440-50-8	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Lead	7439-92-1	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	12/27/10
Molybdenum	7439-98-7	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Arsenic	7440-38-2	LA-505-412	UD	<0.80		ug/L	2	0.80	8.0	12/27/10
Selenium	7782-49-2	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	12/27/10

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 # WSCF103275

Sample # 103275003
SAF# X11-005
Sample ID B27WM6

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICP Prep										**12/08/10**
ICP-AES										
Aluminum	7429-90-5	LA-505-411	U	<19		ug/L	1	19	95	01/04/11
Iron	7439-89-6	LA-505-411	UN	<38		ug/L	1	38	190	01/04/11
Magnesium	7439-95-4	LA-505-411		11800		ug/L	1	14	70	01/04/11
Manganese	7439-96-5	LA-505-411	U	<6.0		ug/L	1	6.0	30	01/04/11
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Potassium	7440-09-7	LA-505-411		5710		ug/L	1	73	360	01/04/11
Silver	7440-22-4	LA-505-411	U	<7.0		ug/L	1	7.0	35	01/04/11
Sodium	7440-23-5	LA-505-411		13200		ug/L	1	11	55	01/04/11
Antimony	7440-36-0	LA-505-411	U	<47		ug/L	1	47	240	01/04/11
Barium	7440-39-3	LA-505-411		45.0		ug/L	1	4.0	20	01/04/11
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Chromium	7440-47-3	LA-505-411	UN	<14		ug/L	1	14	70	01/04/11
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Copper	7440-50-8	LA-505-411	U	<5.0		ug/L	1	5.0	25	01/04/11
Vanadium	7440-62-2	LA-505-411	U	<17		ug/L	1	17	85	01/04/11
Zinc	7440-66-6	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Calcium	7440-70-2	LA-505-411		53900		ug/L	1	28	140	01/04/11

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 # WSCF103275

Sample # 103275003
SAF# X11-005
Sample ID B27WM6

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Lead	7439-92-1	LA-505-411	U	<42		ug/L	1	42	210	01/04/11
Lithium	7439-93-2	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Molybdenum	7439-98-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Strontium	7440-24-6	LA-505-411		233		ug/L	1	4.0	20	01/04/11
Thallium	7440-28-0	LA-505-411	U	<49		ug/L	1	49	240	01/04/11
Tin	7440-31-5	LA-505-411	U	<49		ug/L	1	49	240	01/04/11
Arsenic	7440-38-2	LA-505-411	U	<50		ug/L	1	50	250	01/04/11
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Boron	7440-42-8	LA-505-411	U	<41		ug/L	1	41	200	01/04/11
Bismuth	7440-69-9	LA-505-411	U	<37		ug/L	1	37	180	01/04/11
Silicon	7440-21-3	LA-505-411		15800		ug/L	1	25	120	01/04/11
Phosphorus	7723-14-0	LA-505-411	U	<72		ug/L	1	72	360	01/04/11
Selenium	7782-49-2	LA-505-411	U	<47		ug/L	1	47	240	01/04/11
ICPMS Prep										**12/20/10**
ICP-MS										
Aluminum	7429-90-5	LA-505-412	UD	<10		ug/L	2	10	200	12/27/10
Silver	7440-22-4	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	12/27/10
Barium	7440-39-3	LA-505-412	D	44.2		ug/L	2	0.40	4.0	12/27/10

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 # WSCF103275

Sample # 103275003
SAF# X11-005
Sample ID B27WM6

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Beryllium	7440-41-7	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Cadmium	7440-43-9	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Chromium	7440-47-3	LA-505-412	BD	2.29		ug/L	2	1.0	10	12/27/10
Cobalt	7440-48-4	LA-505-412	UD	<0.10		ug/L	2	0.10	0.50	12/27/10
Copper	7440-50-8	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Lead	7439-92-1	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	12/27/10
Molybdenum	7439-98-7	LA-505-412	D	1.46		ug/L	2	0.10	1.0	12/27/10
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Arsenic	7440-38-2	LA-505-412	BD	5.93		ug/L	2	0.80	8.0	12/27/10
Selenium	7782-49-2	LA-505-412	BD	1.46		ug/L	2	0.60	6.0	12/27/10

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 # WSCF103275

Sample # 103275004
SAF# X11-005
Sample ID B27WY1

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICP Prep										**12/08/10**
ICP-AES										
Aluminum	7429-90-5	LA-505-411	U	<19		ug/L	1	19	95	01/04/11
Iron	7439-89-6	LA-505-411	N	547		ug/L	1	38	190	01/04/11
Magnesium	7439-95-4	LA-505-411		7440		ug/L	1	14	70	01/04/11
Manganese	7439-96-5	LA-505-411	B	18.0		ug/L	1	6.0	30	01/04/11
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Potassium	7440-09-7	LA-505-411		5140		ug/L	1	73	360	01/04/11
Silver	7440-22-4	LA-505-411	U	<7.0		ug/L	1	7.0	35	01/04/11
Sodium	7440-23-5	LA-505-411		22000		ug/L	1	11	55	01/04/11
Antimony	7440-36-0	LA-505-411	U	<47		ug/L	1	47	240	01/04/11
Barium	7440-39-3	LA-505-411	B	17.0		ug/L	1	4.0	20	01/04/11
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Chromium	7440-47-3	LA-505-411	UN	<14		ug/L	1	14	70	01/04/11
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Copper	7440-50-8	LA-505-411	U	<5.0		ug/L	1	5.0	25	01/04/11
Vanadium	7440-62-2	LA-505-411	B	22.0		ug/L	1	17	85	01/04/11
Zinc	7440-66-6	LA-505-411	B	7.00		ug/L	1	4.0	20	01/04/11
Calcium	7440-70-2	LA-505-411		25200		ug/L	1	28	140	01/04/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
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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 # WSCF103275

Sample # 103275004
SAF# X11-005
Sample ID B27WY1

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Lead	7439-92-1	LA-505-411	U	<42		ug/L	1	42	210	01/04/11
Lithium	7439-93-2	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Molybdenum	7439-98-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Strontium	7440-24-6	LA-505-411		152		ug/L	1	4.0	20	01/04/11
Thallium	7440-28-0	LA-505-411	U	<49		ug/L	1	49	240	01/04/11
Tin	7440-31-5	LA-505-411	U	<49		ug/L	1	49	240	01/04/11
Arsenic	7440-38-2	LA-505-411	U	<50		ug/L	1	50	250	01/04/11
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Boron	7440-42-8	LA-505-411	U	<41		ug/L	1	41	200	01/04/11
Bismuth	7440-69-9	LA-505-411	U	<37		ug/L	1	37	180	01/04/11
Silicon	7440-21-3	LA-505-411		17800		ug/L	1	25	120	01/04/11
Phosphorus	7723-14-0	LA-505-411	U	<72		ug/L	1	72	360	01/04/11
Selenium	7782-49-2	LA-505-411	U	<47		ug/L	1	47	240	01/04/11
ICPMS Prep										**12/20/10**
ICP-MS										
Aluminum	7429-90-5	LA-505-412	UD	<10		ug/L	2	10	200	12/27/10
Silver	7440-22-4	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	12/27/10
Barium	7440-39-3	LA-505-412	D	16.0		ug/L	2	0.40	4.0	12/27/10

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 # WSCF103275

Sample # 103275004
SAF# X11-005
Sample ID B27WY1

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Beryllium	7440-41-7	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Cadmium	7440-43-9	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Chromium	7440-47-3	LA-505-412	UD	<1.0		ug/L	2	1.0	10	12/27/10
Cobalt	7440-48-4	LA-505-412	UD	<0.10		ug/L	2	0.10	0.50	12/27/10
Copper	7440-50-8	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Lead	7439-92-1	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	12/27/10
Molybdenum	7439-98-7	LA-505-412	D	9.31		ug/L	2	0.10	1.0	12/27/10
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Arsenic	7440-38-2	LA-505-412	BD	4.42		ug/L	2	0.80	8.0	12/27/10
Selenium	7782-49-2	LA-505-412	BD	0.674		ug/L	2	0.60	6.0	12/27/10

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 dilution 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 # WSCF103275

Sample # 103275005
SAF# X11-005
Sample ID B27WY9

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICP Prep										**12/08/10**
ICP-AES										
Aluminum	7429-90-5	LA-505-411	U	<19		ug/L	1	19	95	01/04/11
Iron	7439-89-6	LA-505-411	UN	<38		ug/L	1	38	190	01/04/11
Magnesium	7439-95-4	LA-505-411	U	<14		ug/L	1	14	70	01/04/11
Manganese	7439-96-5	LA-505-411	U	<6.0		ug/L	1	6.0	30	01/04/11
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Potassium	7440-09-7	LA-505-411	U	<73		ug/L	1	73	360	01/04/11
Silver	7440-22-4	LA-505-411	U	<7.0		ug/L	1	7.0	35	01/04/11
Sodium	7440-23-5	LA-505-411	BC	14.0		ug/L	1	11	55	01/04/11
Antimony	7440-36-0	LA-505-411	U	<47		ug/L	1	47	240	01/04/11
Barium	7440-39-3	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Chromium	7440-47-3	LA-505-411	UN	<14		ug/L	1	14	70	01/04/11
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Copper	7440-50-8	LA-505-411	U	<5.0		ug/L	1	5.0	25	01/04/11
Vanadium	7440-62-2	LA-505-411	U	<17		ug/L	1	17	85	01/04/11
Zinc	7440-66-6	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Calcium	7440-70-2	LA-505-411	U	<28		ug/L	1	28	140	01/04/11

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 # WSCF103275

Sample # 103275005
SAF# X11-005
Sample ID B27WY9

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Lead	7439-92-1	LA-505-411	U	<42		ug/L	1	42	210	01/04/11
Lithium	7439-93-2	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Molybdenum	7439-98-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Strontium	7440-24-6	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Thallium	7440-28-0	LA-505-411	U	<49		ug/L	1	49	240	01/04/11
Tin	7440-31-5	LA-505-411	U	<49		ug/L	1	49	240	01/04/11
Arsenic	7440-38-2	LA-505-411	U	<50		ug/L	1	50	250	01/04/11
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Boron	7440-42-8	LA-505-411	U	<41		ug/L	1	41	200	01/04/11
Bismuth	7440-69-9	LA-505-411	U	<37		ug/L	1	37	180	01/04/11
Silicon	7440-21-3	LA-505-411	U	<25		ug/L	1	25	120	01/04/11
Phosphorus	7723-14-0	LA-505-411	U	<72		ug/L	1	72	360	01/04/11
Selenium	7782-49-2	LA-505-411	U	<47		ug/L	1	47	240	01/04/11
ICPMS Prep										**12/20/10**
ICP-MS										
Aluminum	7429-90-5	LA-505-412	UD	<10		ug/L	2	10	200	12/27/10
Silver	7440-22-4	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	12/27/10
Barium	7440-39-3	LA-505-412	UD	<0.40		ug/L	2	0.40	4.0	12/27/10

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 # WSCF103275

Sample # 103275005
SAF# X11-005
Sample ID B27WY9

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Beryllium	7440-41-7	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Cadmium	7440-43-9	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Chromium	7440-47-3	LA-505-412	UD	<1.0		ug/L	2	1.0	10	12/27/10
Cobalt	7440-48-4	LA-505-412	UD	<0.10		ug/L	2	0.10	0.50	12/27/10
Copper	7440-50-8	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Lead	7439-92-1	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	12/27/10
Molybdenum	7439-98-7	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Arsenic	7440-38-2	LA-505-412	UD	<0.80		ug/L	2	0.80	8.0	12/27/10
Selenium	7782-49-2	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	12/27/10

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 # WSCF103275

Sample # 103275006
SAF# X11-005
Sample ID B27WM7

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICP Prep										**12/08/10**
ICP-AES										
Aluminum	7429-90-5	LA-505-411	B	72.0		ug/L	1	19	95	01/04/11
Iron	7439-89-6	LA-505-411	N	539		ug/L	1	38	190	01/04/11
Magnesium	7439-95-4	LA-505-411		11800		ug/L	1	14	70	01/04/11
Manganese	7439-96-5	LA-505-411	B	7.00		ug/L	1	6.0	30	01/04/11
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Potassium	7440-09-7	LA-505-411		5460		ug/L	1	73	360	01/04/11
Silver	7440-22-4	LA-505-411	U	<7.0		ug/L	1	7.0	35	01/04/11
Sodium	7440-23-5	LA-505-411		12700		ug/L	1	11	55	01/04/11
Antimony	7440-36-0	LA-505-411	U	<47		ug/L	1	47	240	01/04/11
Barium	7440-39-3	LA-505-411		46.0		ug/L	1	4.0	20	01/04/11
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Chromium	7440-47-3	LA-505-411	UN	<14		ug/L	1	14	70	01/04/11
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Copper	7440-50-8	LA-505-411	U	<5.0		ug/L	1	5.0	25	01/04/11
Vanadium	7440-62-2	LA-505-411	U	<17		ug/L	1	17	85	01/04/11
Zinc	7440-66-6	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Calcium	7440-70-2	LA-505-411		53300		ug/L	1	28	140	01/04/11

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 # WSCF103275

Sample # 103275006
SAF# X11-005
Sample ID B27WM7

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Lead	7439-92-1	LA-505-411	U	<42		ug/L	1	42	210	01/04/11
Lithium	7439-93-2	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Molybdenum	7439-98-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Strontium	7440-24-6	LA-505-411		231		ug/L	1	4.0	20	01/04/11
Thallium	7440-28-0	LA-505-411	U	<49		ug/L	1	49	240	01/04/11
Tin	7440-31-5	LA-505-411	U	<49		ug/L	1	49	240	01/04/11
Arsenic	7440-38-2	LA-505-411	U	<50		ug/L	1	50	250	01/04/11
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	01/04/11
Boron	7440-42-8	LA-505-411	U	<41		ug/L	1	41	200	01/04/11
Bismuth	7440-69-9	LA-505-411	U	<37		ug/L	1	37	180	01/04/11
Silicon	7440-21-3	LA-505-411		15700		ug/L	1	25	120	01/04/11
Phosphorus	7723-14-0	LA-505-411	U	<72		ug/L	1	72	360	01/04/11
Selenium	7782-49-2	LA-505-411	U	<47		ug/L	1	47	240	01/04/11
ICPMS Prep										**12/20/10**
ICP-MS										
Aluminum	7429-90-5	LA-505-412	BD	46.8		ug/L	2	10	200	12/27/10
Silver	7440-22-4	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	12/27/10
Barium	7440-39-3	LA-505-412	D	43.1		ug/L	2	0.40	4.0	12/27/10

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 # WSCF103275

Sample # 103275006
SAF# X11-005
Sample ID B27WM7

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Beryllium	7440-41-7	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Cadmium	7440-43-9	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Chromium	7440-47-3	LA-505-412	BD	2.82		ug/L	2	1.0	10	12/27/10
Cobalt	7440-48-4	LA-505-412	UD	<0.10		ug/L	2	0.10	0.50	12/27/10
Copper	7440-50-8	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	12/27/10
Lead	7439-92-1	LA-505-412	BD	1.54		ug/L	2	0.20	2.0	12/27/10
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	12/27/10
Molybdenum	7439-98-7	LA-505-412	D	1.26		ug/L	2	0.10	1.0	12/27/10
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/27/10
Arsenic	7440-38-2	LA-505-412	BD	5.72		ug/L	2	0.80	8.0	12/27/10
Selenium	7782-49-2	LA-505-412	BD	2.11		ug/L	2	0.60	6.0	12/27/10

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, Semivolatiles

Group # WSCF103275

Sample # 103275004
SAF# X11-005
Sample ID B27WY1

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Prep for Water										**12/09/10**
TPHDWA										
Diesel	TPHDIESEL	LA-523-493	U	<70		ug/L	1	70	100	12/16/10

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 < lowest calibration but >= 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.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF103275

Sample # 103275005
SAF# X11-005
Sample ID B27WY9

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Prep for Water										**12/09/10**
TPHDWA										
Diesel	TPHDIESEL	LA-523-493	U	<70		ug/L	1	70	100	12/16/10

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 < lowest calibration but >= 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.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF103275

Sample # 103275006
SAF# X11-005
Sample ID B27WM7

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Prep for Water										**12/09/10**
TPHDWA										
Diesel	TPHDIESEL	LA-523-493	U	<70		ug/L	1	70	100	12/16/10

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 < lowest calibration but >= 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.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

Sample # 103275004
SAF# X11-005
Sample ID B27WY1

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										**12/13/10**
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415	U	0.44	1.1	pCi/L	1	2.0		12/20/10
Gross Beta	12587-47-2	LA-508-415		8.6	2.4	pCi/L	1	3.0		12/20/10
H3 EICHROM										**12/14/10**
TRI-CARB LSC										
Tritium	10028-17-8	LA-508-421		8600	1700	pCi/L	1	210		12/22/10
SR-89/90										**12/28/10**
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-2.0	3.7	pCi/L	1	1.7		01/04/11
Tc-99										**12/14/10**
TRI-CARB LSC										
Technetium-99	14133-76-7	LA-508-421	U	4.5	4	pCi/L	1	6.3		12/18/10
Th/Pu/Am/U Teva										**12/30/10**
AEA Am-U-Pu										
Americium-241	14596-10-2	LA-508-471	U	-0.074	.22	pCi/L	1	0.40		01/03/11

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
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.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

Sample # 103275005
SAF# X11-005
Sample ID B27WY9

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										**12/13/10**
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415	U	-0.36	.68	pCi/L	1	1.5		12/20/10
Gross Beta	12587-47-2	LA-508-415	U	-3.0	1.8	pCi/L	1	3.3		12/20/10
H3 EICHROM										**12/14/10**
TRI-CARB LSC										
Tritium	10028-17-8	LA-508-421	U	110	130	pCi/L	1	210		12/22/10
SR-89/90										**12/28/10**
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-1.4	3.6	pCi/L	1	1.4		01/04/11
Tc-99										**12/14/10**
TRI-CARB LSC										
Technetium-99	14133-76-7	LA-508-421	U	-1.7	3.8	pCi/L	1	6.3		12/18/10
Th/Pu/Am/U Teva										**12/30/10**
AEA Am-U-Pu										
Americium-241	14596-10-2	LA-508-471	U	0.14	.2	pCi/L	1	0.32		01/03/11

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
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.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

Sample # 103275006
SAF# X11-005
Sample ID B27WM7

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										**12/13/10**
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		3.2	1.7	pCi/L	1	2.1		12/20/10
Gross Beta	12587-47-2	LA-508-415		4.0	2.4	pCi/L	1	3.7		12/20/10
H3 EICHROM										**12/14/10**
TRI-CARB LSC										
Tritium	10028-17-8	LA-508-421		3900	810	pCi/L	1	210		12/22/10
SR-89/90										**12/28/10**
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-5.4	3.3	pCi/L	1	1.3		01/04/11
Tc-99										**12/14/10**
TRI-CARB LSC										
Technetium-99	14133-76-7	LA-508-421	U	2.4	3.9	pCi/L	1	6.3		12/18/10
Th/Pu/Am/U Teva										**12/30/10**
AEA Am-U-Pu										
Americium-241	14596-10-2	LA-508-471	U	-0.082	.21	pCi/L	1	0.38		01/03/11

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
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.

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF103275

Sample # 103275004
SAF# X11-005
Sample ID B27WY1

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alkalinity										**12/13/10**
Alkalinity										
Total Alkalinity as CaCO3	ALKALINITY	LA-531-411		100		mg/L	1	1	10	12/13/10

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 # WSCF103275

Sample # 103275005
SAF# X11-005
Sample ID B27WY9

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alkalinity										**12/13/10**
Alkalinity										
Total Alkalinity as CaCO3	ALKALINITY	LA-531-411	U	<1		mg/L	1	1	10	12/13/10

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 # WSCF103275

Sample # 103275006
SAF# X11-005
Sample ID B27WM7

Matrix WATER
Sampled 12/07/10
Received 12/07/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alkalinity										**12/15/10**
Alkalinity										
Total Alkalinity as CaCO3	ALKALINITY	LA-531-411		110		mg/L	1	1	10	12/15/10

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 # WSCF103275

QC Batch 170861 **Test** ICP-6010 - All possible metals
Associated Samples 103275001, 103275002, 103275003, 103275004, 103275005, 103275006

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #43572**						
Aluminum	7429-90-5		<19	ug/L				U	01/04/11
Iron	7439-89-6		<38	ug/L				U	01/04/11
Magnesium	7439-95-4		<14	ug/L				U	01/04/11
Manganese	7439-96-5		<6.0	ug/L				U	01/04/11
Nickel	7440-02-0		<4.0	ug/L				U	01/04/11
Potassium	7440-09-7		<73	ug/L				U	01/04/11
Silver	7440-22-4		<7.0	ug/L				U	01/04/11
Sodium	7440-23-5		14.0	ug/L				B	01/04/11
Antimony	7440-36-0		<47	ug/L				U	01/04/11
Barium	7440-39-3		<4.0	ug/L				U	01/04/11
Cadmium	7440-43-9		<4.0	ug/L				U	01/04/11
Chromium	7440-47-3		<14	ug/L				U	01/04/11
Cobalt	7440-48-4		<4.0	ug/L				U	01/04/11
Copper	7440-50-8		<5.0	ug/L				U	01/04/11
Vanadium	7440-62-2		<17	ug/L				U	01/04/11
Zinc	7440-66-6		<4.0	ug/L				U	01/04/11
Calcium	7440-70-2		<28	ug/L				U	01/04/11
Lead	7439-92-1		<42	ug/L				U	01/04/11
Lithium	7439-93-2		<4.0	ug/L				U	01/04/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF103275

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Molybdenum	7439-98-7		<4.0	ug/L					U	01/04/11
Strontium	7440-24-6		<4.0	ug/L					U	01/04/11
Thallium	7440-28-0		<49	ug/L					U	01/04/11
Tin	7440-31-5		<49	ug/L					U	01/04/11
Arsenic	7440-38-2		<50	ug/L					U	01/04/11
Beryllium	7440-41-7		<4.0	ug/L					U	01/04/11
Boron	7440-42-8		<41	ug/L					U	01/04/11
Bismuth	7440-69-9		43.0	ug/L					B	01/04/11
Silicon	7440-21-3		328	ug/L						01/04/11
Phosphorus	7723-14-0		<72	ug/L					U	01/04/11
Selenium	7782-49-2		<47	ug/L					U	01/04/11
LCS			**QC Sample #43573**							
Aluminum	7429-90-5		1010	ug/L	101	80 - 120				01/04/11
Iron	7439-89-6		1010	ug/L	101	80 - 120				01/04/11
Magnesium	7439-95-4		1010	ug/L	101	80 - 120				01/04/11
Manganese	7439-96-5		1030	ug/L	103	80 - 120				01/04/11
Nickel	7440-02-0		1010	ug/L	101	80 - 120				01/04/11
Potassium	7440-09-7		1050	ug/L	105	80 - 120				01/04/11
Silver	7440-22-4		1000	ug/L	100	80 - 120				01/04/11
Sodium	7440-23-5		1040	ug/L	104	80 - 120				01/04/11
Antimony	7440-36-0		1020	ug/L	102	80 - 120				01/04/11
Barium	7440-39-3		523	ug/L	104.6	80 - 120				01/04/11
Cadmium	7440-43-9		1040	ug/L	104	80 - 120				01/04/11
Chromium	7440-47-3		1020	ug/L	102	80 - 120				01/04/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF103275

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Cobalt	7440-48-4		1010	ug/L	101	80 - 120				01/04/11
Copper	7440-50-8		1020	ug/L	102	80 - 120				01/04/11
Vanadium	7440-62-2		1000	ug/L	100	80 - 120				01/04/11
Zinc	7440-66-6		1020	ug/L	102	80 - 120				01/04/11
Calcium	7440-70-2		999	ug/L	99.9	80 - 120				01/04/11
Lead	7439-92-1		1030	ug/L	103	80 - 120				01/04/11
Lithium	7439-93-2		506	ug/L	101.2	80 - 120				01/04/11
Molybdenum	7439-98-7		1010	ug/L	101	80 - 120				01/04/11
Strontium	7440-24-6		531	ug/L	106.2	80 - 120				01/04/11
Thallium	7440-28-0		877	ug/L	87.7	80 - 120				01/04/11
Tin	7440-31-5		1010	ug/L	101	80 - 120				01/04/11
Arsenic	7440-38-2		1020	ug/L	102	80 - 120				01/04/11
Beryllium	7440-41-7		531	ug/L	106.2	80 - 120				01/04/11
Boron	7440-42-8		1030	ug/L	103	80 - 120				01/04/11
Bismuth	7440-69-9		979	ug/L	97.9	80 - 120				01/04/11
Silicon	7440-21-3		1010	ug/L	101	80 - 120				01/04/11
Phosphorus	7723-14-0		999	ug/L	99.9	80 - 120				01/04/11
Selenium	7782-49-2		1020	ug/L	102	80 - 120				01/04/11
MS			**QC Sample #43574**							
			Original 103275001							
Aluminum	7429-90-5	44.0	1010	ug/L	100.6	75 - 125				01/04/11
Iron	7439-89-6	1760	-400	ug/L	-40	75 - 125			N	01/04/11
Magnesium	7439-95-4	7450	1000	ug/L	100	75 - 125			X	01/04/11
Manganese	7439-96-5	17.0	1030	ug/L	103.3	75 - 125				01/04/11
Nickel	7440-02-0	16.0	1000	ug/L	100.4	75 - 125				01/04/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF103275

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Potassium	7440-09-7	5100	970	ug/L	97	75 - 125				01/04/11
Silver	7440-22-4	<7.0	994	ug/L	99.4	75 - 125				01/04/11
Sodium	7440-23-5	21800	800	ug/L	80	75 - 125			X	01/04/11
Antimony	7440-36-0	<47	1040	ug/L	104	75 - 125				01/04/11
Barium	7440-39-3	16.0	516	ug/L	103.2	75 - 125				01/04/11
Cadmium	7440-43-9	<4.0	1060	ug/L	106	75 - 125				01/04/11
Chromium	7440-47-3	288	712	ug/L	71.2	75 - 125			N	01/04/11
Cobalt	7440-48-4	<4.0	1010	ug/L	101	75 - 125				01/04/11
Copper	7440-50-8	<5.0	1010	ug/L	101	75 - 125				01/04/11
Vanadium	7440-62-2	<17	1010	ug/L	101	75 - 125				01/04/11
Zinc	7440-66-6	8.00	1040	ug/L	104.2	75 - 125				01/04/11
Calcium	7440-70-2	24600	1100	ug/L	110	75 - 125			X	01/04/11
Lead	7439-92-1	<42	1050	ug/L	105	75 - 125				01/04/11
Lithium	7439-93-2	<4.0	522	ug/L	104.4	75 - 125				01/04/11
Molybdenum	7439-98-7	4.00	1030	ug/L	102.6	75 - 125				01/04/11
Strontium	7440-24-6	151	531	ug/L	106.2	75 - 125				01/04/11
Thallium	7440-28-0	<49	858	ug/L	85.8	75 - 125				01/04/11
Tin	7440-31-5	<49	1040	ug/L	104	75 - 125				01/04/11
Arsenic	7440-38-2	<50	1060	ug/L	106	75 - 125				01/04/11
Beryllium	7440-41-7	<4.0	529	ug/L	105.8	75 - 125				01/04/11
Boron	7440-42-8	<41	1030	ug/L	103	75 - 125				01/04/11
Bismuth	7440-69-9	<37	960	ug/L	96	75 - 125				01/04/11
Silicon	7440-21-3	16900	1400	ug/L	140	75 - 125			X	01/04/11
Phosphorus	7723-14-0	<72	1070	ug/L	107	75 - 125				01/04/11
Selenium	7782-49-2	<47	1070	ug/L	107	75 - 125				01/04/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF103275

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
MSD			**QC Sample #43575**								
			Original	**103275001**					**Paired**	**43574**	
Aluminum	7429-90-5	44.0	986	ug/L	98.6	75 - 125	2.00	20			01/04/11
Iron	7439-89-6	1760	-390	ug/L	-39	75 - 125	-2.50	20		N	01/04/11
Magnesium	7439-95-4	7450	1000	ug/L	100	75 - 125	0.00	20		X	01/04/11
Manganese	7439-96-5	17.0	1040	ug/L	104.3	75 - 125	1.00	20			01/04/11
Nickel	7440-02-0	16.0	1020	ug/L	102.4	75 - 125	2.00	20			01/04/11
Potassium	7440-09-7	5100	940	ug/L	94	75 - 125	3.10	20			01/04/11
Silver	7440-22-4	<7.0	999	ug/L	99.9	75 - 125	0.50	20			01/04/11
Sodium	7440-23-5	21800	1000	ug/L	100	75 - 125	22.20	20	*	X	01/04/11
Antimony	7440-36-0	<47	1060	ug/L	106	75 - 125	1.90	20			01/04/11
Barium	7440-39-3	16.0	523	ug/L	104.6	75 - 125	1.30	20			01/04/11
Cadmium	7440-43-9	<4.0	1070	ug/L	107	75 - 125	0.90	20			01/04/11
Chromium	7440-47-3	288	732	ug/L	73.2	75 - 125	2.80	20		N	01/04/11
Cobalt	7440-48-4	<4.0	1050	ug/L	105	75 - 125	3.90	20			01/04/11
Copper	7440-50-8	<5.0	1010	ug/L	101	75 - 125	0.00	20			01/04/11
Vanadium	7440-62-2	<17	1020	ug/L	102	75 - 125	1.00	20			01/04/11
Zinc	7440-66-6	8.00	1060	ug/L	106.2	75 - 125	1.90	20			01/04/11
Calcium	7440-70-2	24600	1700	ug/L	170	75 - 125	42.90	20	*	X	01/04/11
Lead	7439-92-1	<42	1070	ug/L	107	75 - 125	1.90	20			01/04/11
Lithium	7439-93-2	<4.0	525	ug/L	105	75 - 125	0.60	20			01/04/11
Molybdenum	7439-98-7	4.00	1050	ug/L	104.6	75 - 125	1.90	20			01/04/11
Strontium	7440-24-6	151	536	ug/L	107.2	75 - 125	0.90	20			01/04/11
Thallium	7440-28-0	<49	883	ug/L	88.3	75 - 125	2.90	20			01/04/11
Tin	7440-31-5	<49	1080	ug/L	108	75 - 125	3.80	20			01/04/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF103275

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Arsenic	7440-38-2	<50	1060	ug/L	106	75 - 125	0.00	20			01/04/11
Beryllium	7440-41-7	<4.0	536	ug/L	107.2	75 - 125	1.30	20			01/04/11
Boron	7440-42-8	<41	1060	ug/L	106	75 - 125	2.90	20			01/04/11
Bismuth	7440-69-9	<37	1030	ug/L	103	75 - 125	7.00	20			01/04/11
Silicon	7440-21-3	16900	2100	ug/L	210	75 - 125	40.00	20	*	X	01/04/11
Phosphorus	7723-14-0	<72	1130	ug/L	113	75 - 125	5.50	20			01/04/11
Selenium	7782-49-2	<47	1060	ug/L	106	75 - 125	0.90	20			01/04/11

Quality Control Report

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF103275

QC Batch 170926
Associated Samples 103275004, 103275005, 103275006

Test Extractable Diesel and Petroleum

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #43768**							
Diesel	TPHDIESEL		<80	ug/L					U	12/16/10
LCS			**QC Sample #43769**							
Diesel	TPHDIESEL		2700	ug/L	106.7	65 - 128				12/16/10
MS			**QC Sample #43770**							
			Original 103264003							
Diesel	TPHDIESEL		2200	ug/L	92.8	73 - 123				12/16/10
MSD			**QC Sample #43771**							
			Original 103264003					**Paired**	**43770**	
Diesel	TPHDIESEL		2700	ug/L	112.4	73 - 123	19.10	20		12/16/10

Quality Control Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF103275

QC Batch 171080
Associated Samples 103275004, 103275005

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 #43936**							
Total Alkalinity as CaCO3	ALKALINITY		100	mg/L	102.4	80 - 120				12/13/10
DUP			**QC Sample #43937**							
			Original 103209028							
Total Alkalinity as CaCO3	ALKALINITY		110	mg/L			0.00	20		12/13/10

Quality Control Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF103275

QC Batch 172524
Associated Samples 103275006

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 #44449**							
Total Alkalinity as CaCO3	ALKALINITY		100	mg/L	100.8	80 - 120				12/15/10
DUP			**QC Sample #44450**							
			Original 103275006							
Total Alkalinity as CaCO3	ALKALINITY	110	110	mg/L			0.00	20		12/15/10

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF103275

QC Batch 172560 **Test** ICP-2008 MS All possible metal
Associated Samples 103275001, 103275002, 103275003, 103275004, 103275005, 103275006

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #44516**							
Aluminum	7429-90-5		<5.0	ug/L					U	12/27/10
Silver	7440-22-4		<0.10	ug/L					U	12/27/10
Antimony	7440-36-0		<0.30	ug/L					U	12/27/10
Barium	7440-39-3		<0.20	ug/L					U	12/27/10
Beryllium	7440-41-7		<0.050	ug/L					U	12/27/10
Cadmium	7440-43-9		<0.10	ug/L					U	12/27/10
Chromium	7440-47-3		<0.50	ug/L					U	12/27/10
Cobalt	7440-48-4		<0.050	ug/L					U	12/27/10
Copper	7440-50-8		<0.10	ug/L					U	12/27/10
Lead	7439-92-1		<0.10	ug/L					U	12/27/10
Mercury	7439-97-6		<0.050	ug/L					U	12/27/10
Molybdenum	7439-98-7		<0.050	ug/L					U	12/27/10
Thallium	7440-28-0		<0.050	ug/L					U	12/27/10
Tin	7440-31-5		<0.050	ug/L					U	12/27/10
Arsenic	7440-38-2		<0.40	ug/L					U	12/27/10
Selenium	7782-49-2		<0.30	ug/L					U	12/27/10
LCS			**QC Sample #44517**							
Aluminum	7429-90-5		394	ug/L	98.4	85 - 115				12/27/10

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF103275

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Silver	7440-22-4		40.6	ug/L	101.5	85 - 115				12/27/10
Antimony	7440-36-0		38.4	ug/L	96.1	85 - 115				12/27/10
Barium	7440-39-3		39.8	ug/L	99.4	85 - 115				12/27/10
Beryllium	7440-41-7		38.9	ug/L	97.3	85 - 115				12/27/10
Cadmium	7440-43-9		38.5	ug/L	96.2	85 - 115				12/27/10
Chromium	7440-47-3		41.0	ug/L	102.4	85 - 115				12/27/10
Cobalt	7440-48-4		41.0	ug/L	102.6	85 - 115				12/27/10
Copper	7440-50-8		39.6	ug/L	99	85 - 115				12/27/10
Lead	7439-92-1		40.2	ug/L	100.4	85 - 115				12/27/10
Mercury	7439-97-6		2.09	ug/L	104.4	85 - 115				12/27/10
Molybdenum	7439-98-7		40.2	ug/L	100.4	85 - 115				12/27/10
Thallium	7440-28-0		39.8	ug/L	99.4	85 - 115				12/27/10
Tin	7440-31-5		39.5	ug/L	98.7	85 - 115				12/27/10
Arsenic	7440-38-2		37.8	ug/L	94.4	85 - 115				12/27/10
Selenium	7782-49-2		36.3	ug/L	90.8	85 - 115				12/27/10
MS			**QC Sample #44518**							
			Original 103258006							
Aluminum	7429-90-5		390	ug/L	97.4	70 - 130				12/27/10
Silver	7440-22-4		38.6	ug/L	96.5	70 - 130				12/27/10
Antimony	7440-36-0		39.3	ug/L	98.2	70 - 130				12/27/10
Barium	7440-39-3		39.6	ug/L	99	70 - 130				12/27/10
Beryllium	7440-41-7		39.5	ug/L	98.8	70 - 130				12/27/10
Cadmium	7440-43-9		38.1	ug/L	95.2	70 - 130				12/27/10
Chromium	7440-47-3		39.8	ug/L	99.6	70 - 130				12/27/10
Cobalt	7440-48-4		38.5	ug/L	96.2	70 - 130				12/27/10

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF103275

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Copper	7440-50-8		36.8	ug/L	92	70 - 130				12/27/10
Lead	7439-92-1		40.6	ug/L	101.5	70 - 130				12/27/10
Mercury	7439-97-6		2.14	ug/L	107	70 - 130				12/27/10
Molybdenum	7439-98-7		41.8	ug/L	104.4	70 - 130				12/27/10
Thallium	7440-28-0		41.0	ug/L	102.5	70 - 130				12/27/10
Tin	7440-31-5		40.3	ug/L	100.8	70 - 130				12/27/10
Arsenic	7440-38-2		38.4	ug/L	96.1	70 - 130				12/27/10
Selenium	7782-49-2		35.6	ug/L	89.1	70 - 130				12/27/10
MSD			**QC Sample #44519**							
			Original 103258006						**Paired 44518**	
Aluminum	7429-90-5		383	ug/L	95.8	70 - 130	1.70	20		12/27/10
Silver	7440-22-4		39.1	ug/L	97.7	70 - 130	1.20	20		12/27/10
Antimony	7440-36-0		39.7	ug/L	99.3	70 - 130	1.10	20		12/27/10
Barium	7440-39-3		39.4	ug/L	98.5	70 - 130	0.50	20		12/27/10
Beryllium	7440-41-7		39.3	ug/L	98.2	70 - 130	0.60	20		12/27/10
Cadmium	7440-43-9		38.5	ug/L	96.2	70 - 130	1.00	20		12/27/10
Chromium	7440-47-3		40.0	ug/L	99.9	70 - 130	0.30	20		12/27/10
Cobalt	7440-48-4		38.8	ug/L	96.9	70 - 130	0.70	20		12/27/10
Copper	7440-50-8		36.4	ug/L	91	70 - 130	1.10	20		12/27/10
Lead	7439-92-1		40.5	ug/L	101.2	70 - 130	0.30	20		12/27/10
Mercury	7439-97-6		2.17	ug/L	108.6	70 - 130	1.50	20		12/27/10
Molybdenum	7439-98-7		41.7	ug/L	104.3	70 - 130	0.10	20		12/27/10
Thallium	7440-28-0		40.4	ug/L	101.1	70 - 130	1.40	20		12/27/10
Tin	7440-31-5		40.1	ug/L	100.4	70 - 130	0.40	20		12/27/10
Arsenic	7440-38-2		38.6	ug/L	96.6	70 - 130	0.50	20		12/27/10

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF103275

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Selenium	7782-49-2		33.8	ug/L	84.6	70 - 130	5.20	20		12/27/10

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

QC Batch 170857
Associated Samples 103275004

Test Gross Alpha/Gross Beta

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #43582**							
Gross Alpha	12587-46-1		-0.088	pCi/L					U	12/20/10
Gross Beta	12587-47-2		1.1	pCi/L					U	12/20/10
LCS			**QC Sample #43583**							
Gross Alpha	12587-46-1		92	pCi/L	113.5	80 - 120				12/20/10
Gross Beta	12587-47-2		250	pCi/L	113.3	80 - 120				12/20/10
DUP			**QC Sample #43584**							
			Original 103249005							
Gross Alpha	12587-46-1		2.8	pCi/L			3.60	20		12/20/10
Gross Beta	12587-47-2		59	pCi/L			3.30	20		12/20/10

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

QC Batch 170858
Associated Samples 103275005, 103275006

Test Gross Alpha/Gross Beta

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #43562**								
Gross Alpha	12587-46-1		0.64	pCi/L						U	12/20/10
Gross Beta	12587-47-2		-2.0	pCi/L						U	12/20/10
LCS			**QC Sample #43563**								
Gross Alpha	12587-46-1		79	pCi/L	96.8	80 - 120					12/20/10
Gross Beta	12587-47-2		250	pCi/L	114.3	80 - 120					12/20/10
DUP			**QC Sample #43564**								
			Original 103275005								
Gross Alpha	12587-46-1	-0.36	-0.55	pCi/L			-41.80	20	*	U	12/20/10
Gross Beta	12587-47-2	-3.0	-0.84	pCi/L			-112.50	20	*	U	12/20/10

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

QC Batch 171045
Associated Samples 103275004, 103275005, 103275006

Test TC99 by Liquid Scintillation

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #43878**								
Technetium-99	14133-76-7		-3.3	pCi/L						U	12/18/10
LCS			**QC Sample #43879**								
Technetium-99	14133-76-7		290	pCi/L	115.8	80 - 120					12/18/10
DUP			**QC Sample #43880**								
			Original 103275004								
Technetium-99	14133-76-7	4.5	7.6	pCi/L			51.20	20	*	X	12/18/10
MS			**QC Sample #43881**								
			Original 103275004								
Technetium-99	14133-76-7	4.5	1000	pCi/L	102	75 - 125					12/18/10

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

QC Batch 171070
Associated Samples 103275004, 103275005, 103275006

Test Tritium by LSC

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #43920**							
Tritium	10028-17-8		-80	pCi/L					U	12/22/10
LCS			**QC Sample #43921**							
Tritium	10028-17-8		2900	pCi/L	91.5	80 - 120				12/22/10
DUP			**QC Sample #43922**							
			Original 103275004							
Tritium	10028-17-8	8600	8700	pCi/L			1.20	20		12/22/10
MS			**QC Sample #43923**							
			Original 103275004							
Tritium	10028-17-8	8600	20000	pCi/L	96.1	75 - 125				12/22/10

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

QC Batch 172472
Associated Samples 103275004

Test Strontium 89/90 (GPC/GEA)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #44212**								
Strontium-89/90	SR-RAD		-5.3	pCi/L						U	01/04/11
LCS			**QC Sample #44213**								
Strontium-89/90	SR-RAD		98	pCi/L	105.2	80 - 120					01/04/11
DUP			**QC Sample #44214**								
			Original 103250003								
Strontium-89/90	SR-RAD		-5.7	pCi/L			-59.10	20	*	U	01/04/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

QC Batch 172473
Associated Samples 103275005, 103275006

Test Strontium 89/90 (GPC/GEA)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #44215**								
Strontium-89/90	SR-RAD		-2.5	pCi/L						U	01/04/11
LCS			**QC Sample #44216**								
Strontium-89/90	SR-RAD		95	pCi/L	101.7	80 - 120					01/04/11
DUP			**QC Sample #44217**								
			Original 103275005								
Strontium-89/90	SR-RAD	-1.4	0.056	pCi/L			-216.70	20	*	U	01/04/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

QC Batch 172532
Associated Samples 103275004, 103275005, 103275006

Test Americium/Curium (AEA)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #44471**								
Americium-241	14596-10-2		0.30	pCi/L						U	01/03/11
LCS			**QC Sample #44472**								
Americium-241	14596-10-2		5.2	pCi/sample	94.4	80 - 120					01/03/11
DUP			**QC Sample #44473**								
			Original 103275004								
Americium-241	14596-10-2	-0.074	-0.18	pCi/L			-83.50	20	*	U	01/03/11

Quality Control Report

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF103275

QC Batch 170926
Associated Samples 103275004, 103275005, 103275006

Test Extractable Diesel and Petroleum

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #103275004**							
o-Terphenyl	84-15-1				107.8	70 - 130				12/16/10
SAMPLE			**Sample #103275005**							
o-Terphenyl	84-15-1				100.1	70 - 130				12/16/10
SAMPLE			**Sample #103275006**							
o-Terphenyl	84-15-1				105.9	70 - 130				12/16/10
BLANK			**QC Sample #43768**							
o-Terphenyl	84-15-1				87	70 - 130				12/16/10
LCS			**QC Sample #43769**							
o-Terphenyl	84-15-1				117.4	70 - 130				12/16/10
MS			**QC Sample #43770**							
			Original	**103264003**						
o-Terphenyl	84-15-1				96.9	70 - 130				12/16/10
MSD			**QC Sample #43771**							
			Original	**103264003**					**Paired**	**43770**
o-Terphenyl	84-15-1				119.4	70 - 130	20.80	20	*	12/16/10

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

QC Batch 172472
Associated Samples 103275004

Test Strontium 89/90 (GPC/GEA)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #103275004**							
Strontium-85	13967-73-2				79.6	25 - 105				01/04/11
BLANK			**QC Sample #44212**							
Strontium-85	13967-73-2				92.1	25 - 105				01/04/11
LCS			**QC Sample #44213**							
Strontium-85	13967-73-2				91.7	25 - 105				01/04/11
DUP			**QC Sample #44214**							
			Original 103250003							
Strontium-85	13967-73-2				90.7	25 - 105	4.40			01/04/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

QC Batch 172473
Associated Samples 103275005, 103275006

Test Strontium 89/90 (GPC/GEA)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #103275005**							
Strontium-85	13967-73-2				88.9	25 - 105				01/04/11
SAMPLE			**Sample #103275006**							
Strontium-85	13967-73-2				94.2	25 - 105				01/04/11
BLANK			**QC Sample #44215**							
Strontium-85	13967-73-2				93.6	25 - 105				01/04/11
LCS			**QC Sample #44216**							
Strontium-85	13967-73-2				94.1	25 - 105				01/04/11
DUP			**QC Sample #44217**							
			Original 103275005							
Strontium-85	13967-73-2				83.6	25 - 105	9.10			01/04/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF103275

QC Batch 172532
Associated Samples 103275004, 103275005, 103275006

Test Americium/Curium (AEA)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #103275004**							
Americium-243 Tracer	14993-75-0				89.2	25 - 105				01/03/11
SAMPLE			**Sample #103275005**							
Americium-243 Tracer	14993-75-0				87.2	25 - 105				01/03/11
SAMPLE			**Sample #103275006**							
Americium-243 Tracer	14993-75-0				82.8	25 - 105				01/03/11
BLANK			**QC Sample #44471**							
Americium-243 Tracer	14993-75-0				84.5	25 - 105				01/03/11
LCS			**QC Sample #44472**							
Americium-243 Tracer	14993-75-0				81.4	25 - 105				01/03/11
DUP			**QC Sample #44473**							
			Original 103275004							
Americium-243 Tracer	14993-75-0				85.4	25 - 105	0.00			01/03/11

Analytical Comment Report

Attention: Michael Neely **Group #** WSCF103275

Quality Control Comments

Department Inorganic

43574 B27WY0(103275001MS)

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 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.

43575 B27WY0(103275001MSD)

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 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.

Analytical Comment Report

Attention: Michael Neely

Group # WSCF103275

Quality Control Comments

Department Radiochemistry

43880 B27WY1(103275004DUP)

Analyte Technetium-99 - TC99 by Liquid Scintillation

[1] Duplicate RPD out-of-limits. RPD limit does not apply to results near the Minimum Detectable Concentration.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 6 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 #: 401922
Work Order #: 103275
Profile #: X11-005-93
Proj. Mgr.:
Phone:

The following samples were received from you on 12/7/2010 2:00:00 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		
103275001	B27WY0	WATER	12/7/2010 10:02	12/7/2010 14:00
		2008-W, 6010-W		
103275002	B27WY8	WATER	12/7/2010 07:30	12/7/2010 14:00
		2008-W, 6010-W		
103275003	B27WM6	WATER	12/7/2010 12:57	12/7/2010 14:00
		2008-W, 6010-W		
103275004	B27WY1	WATER	12/7/2010 10:02	12/7/2010 14:00
		2008-W, 6010-W, AEA-AM-W, ALK-W, GAB-AO-W, GAB-BO-W, H3-COL-W, SR89/90-W, TC99-W, TPHDWA-W		
103275005	B27WY9	WATER	12/7/2010 07:30	12/7/2010 14:00
		2008-W, 6010-W, AEA-AM-W, ALK-W, GAB-AO-W, GAB-BO-W, H3-COL-W, SR89/90-W, TC99-W, TPHDWA-W		
103275006	B27WM7	WATER	12/7/2010 12:57	12/7/2010 14:00
		2008-W, 6010-W, AEA-AM-W, ALK-W, GAB-AO-W, GAB-BO-W, H3-COL-W, SR89/90-W, TC99-W, TPHDWA-W		

Test Acronym Description

Test Acronym	Description
2008-W	ICP-MS (W)
6010-W	ICP-AES (W)
AEA-AM-W	Americium (AEA) (W)
ALK-W	Total Alkalinity (W)
GAB-AO-W	Gross Alpha/Beta (A only)(W)

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

GAB-BO-W	Gross Alpha/Beta (B only)(W)
H3-COL-W	Tritium by EICHROM Column (W)
SR89/90-W	Strontium 89/90 (GPC) (W)
TC99-W	Technetium-99 (W)
TPHDWA-W	TPHD-WA (W)

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.# X11-005-93

Page 1 of 1

Collector: [illegible] CHPRC	Contact/Phone/Pager: Karen Watson/[illegible]	Telephone No.: [illegible]
SAF No.: X11-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code: [illegible]
Project Title: [illegible]	Logbook No.: HNF-N-306 341 89	Ice Chest No.: NA
Shipped To/Lab: Waste Sampling & Characterization	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 30 Days **PRIORITY**	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS: [illegible]

SPECIAL INSTRUCTIONS: Hold Time [illegible] Total Activity Exemption: Yes [illegible] No

103275

Sample No.	Filter	#		Date	Time	Type/Container	Sample Analysis	Holding Time	Preservative
B27WY0	Y		W	12-7-10	16:06	1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
B27WY0	Y		W			1x500-mL GP	200.8_METALS_ICPMS: DURA LIST (19)	6 Months	HNO3 to pH <2
B27WY0	Y		W			1x500-mL GP	6010_METALS_ICP: DURA LIST (28)	6 Months	HNO3 to pH <2
B27WY1	N		W			1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
B27WY1	N		W			1x500-mL GP	200.8_METALS_ICPMS: DURA LIST (19)	6 Months	HNO3 to pH <2
B27WY1	N		W			1x500-mL GP	6010_METALS_ICP: DURA LIST (28)	6 Months	HNO3 to pH <2
B27WY1	N		W			1x250-mL GP	2320_ALKALINITY: Alkalinity (1)	14 Days	Cool-4C
B27WY1	N		W			1x500-mL GP	ALPHABETA_GPC: Alpha discrete + Beta (2) ALPHABETA_GPC: Alpha discrete + Beta (2)	6 Months	HNO3 to pH <2
B27WY1	N		W			1x1000 mL GP	AMCMISC_IE_PREG_AEA: Am-241 (1)	180 Days	HNO3 to pH <2
B27WY1	N		W			1x1-L GP	Strontium-89,90 – Total Sr	6 Months	HNO3 to pH <2
B27WY1	N		W			1x1000 mL GP	TC99_3MDSK_LSC: Tc-99 (1)	6 Months	HCl to pH <2
B27WY1	N		W			1x250-mL G	TRITIUM_SE_LSC: Tritium (1)	6 Months	None
B27WY1	N		W			2x1000 mL G	TPH-Diesel Range - WTPH-D	1440 Days	HCl to pH <2 Cool-4C

Relinquished By: CHPRC [signature] 1400 DEC 07 2010	Received By: M Nelson [signature] 1400 DEC 07 2010	Matrix: A = Air, B = Biota, C = Charcoal, DW = Drum Water, G = Gas, DG = Drum Gas, S = Solid, T = Tissue, SL = Sludge, WC = Wipe Cake, W = Water, L = Liquid, O = Oil, V = Vegetation, A = Air, X = Other	
Relinquished By: Date/Time	Received By: Date/Time		
Relinquished By: Date/Time	Received By: Date/Time		
FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return, transport, etc. [or 30 periods, used in process])	Disposed By:	Date/Time	

A-6064-840 (REV 2)

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.# XH-005-94

Page 1 of 1

Collector: JOSH ARTZER	Contact/Requester: Yaron Shoshani	Telebooc No. 176-0150
SAF No. XH-005	Sampling Organ: Hanford Site	Purchase Order/Charge Code
Project Title: 222-S RESIDUE, OCTOBER 2010	Logbook No: HNF-N-506 39 / 87	Ice Chest No. N/A
Shipped To (Lab): Waste Sampling & Characterization	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No. N/A
Protocol: 200.8/CLP	Priority: 30 Days **PRIORITY**	Bottle Properties No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** Class of Radioactive Material at concentrations that are not sign not for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1991)

SPECIAL INSTRUCTIONS: Hold Time. Total Activity Determined: Yes No
Use With Area Dosimeter knowledge information if one applies.
The CAS No for all enclosed samples is WSCF to 0.0?
Please report all TICs.

Sample No.	Filter	*	Date	Time	Bot Type Container	Sample Analysis	Holding Time	Preservation
B27WY9	N	W	12-7-10	0930	1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
B27WY9	N	W			1x500-mL G/P	200.8_METALS_ICPMS_DURA LIST (10)	6 Months	HNO3 to pH <2
B27WY9	N	W			1x500-mL G/P	6010_METALS_ICP_DURA LIST (29)	6 Months	HNO3 to pH <2
B27WY9	N	W			1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
B27WY9	N	W			1x500-mL G/P	200.8_METALS_ICPMS_DURA LIST (10)	6 Months	HNO3 to pH <2
B27WY9	N	W			1x500-mL G/P	6010_METALS_ICP_DURA LIST (29)	6 Months	HNO3 to pH <2
B27WY9	N	W			1x250-mL G/P	2320_ALKALINITY_Alkalinity (1)	14 Days	Cool<4C
B27WY9	N	W			1x500-mL G/P	ALPHAUETA_GPC: Alpha discrete + Beta (2) ALPHABETA_GPC: Alpha discrete + Beta (2)	6 Months	HNO3 to pH <2
B27WY9	N	W			1x1000-mL G/P	AMCMISO_IE_PREC_AEA: Am-241 (1)	180 Days	HNO3 to pH <2
B27WY9	N	W			1x1-L G/P	Strontium-89,90 - Total Sr	6 Months	HNO3 to pH <2
B27WY9	N	W			1x500-mL G/P	TC99_3MDSK_LSC: Tc-99 (1)	6 Months	HCl to pH <2
B27WY9	N	W			1x250-mL G	TRITIUM_SB_LSC: Tritium (1)	6 Months	None
B27WY9	N	W			3x1000-mL aG	TPH-Diesel Range - WTPH-D	14/40 Days	HCl to pH <2 Cool<4C

Relinquished By: [signature] 1400 DEC 07 2010	Received By: M Nelson [signature] 1400 DEC 07 2010	Matrix*
Relinquished By: Date/Time	Received By: Date/Time	S = Soil; SL = Sediment; SS = Solid; W = Water; WI = Wipe; O = Oil; A = Air; DW = Drum Waste; GW = Grab Water; L = Liquid; V = Vegetation; X = Other
Relinquished By: Date/Time	Received By: Date/Time	
Relinquished By: Date/Time	Received By: Date/Time	
FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, total expense)	Disposed By:	Date/Time

A-6004-842 (REV 2)

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.# X11-005-15

Page 1 of 1

Collector [illegible]	Custody Receiver Karen Worm/Hand	Telephone No. [illegible]
SAF No. X11-005	Sampling Origin Hanford	Purchase Order/Charge Code [illegible]
Project Title [illegible]	Logbook No. UNF-N-506 3H 187	Ice Chest No. N/A
Shipped To (Lab) Chase Sampling & Characterization	Method of Shipment Government Vehicle	Bill of Lading/Air Bill No. N/A
Protocol [illegible]	Priority 30 Days PRIORITY	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
[illegible]

SPECIAL INSTRUCTIONS Hold Time Total Activity Exceedance Yes ☐ No ☐
Site Wide Area Generator Knowledge Information Sheet applies.
[illegible]
Please report all TICs.

Sample No.	Filter	Preserv.	Date	Time	Size/Type/Container	Sample Analysis	Holding Time	Preservative
327A9M2 3	N	W	12-7-10	1257	1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
327A9M6	N	W			1x500-mL G/P	200.8_METALS_ICPMS: DURA LIST (10)	6 Months	HNO3 to pH <2
327A9M8	N	W			1x500-mL G/P	6010_METALS_ICP: DURA LIST (23)	6 Months	HNO3 to pH <2
327A9M7 10	N	W			1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
327A9M7	N	W			1x500-mL G/P	200.8_METALS_ICPMS: DURA LIST (10)	6 Months	HNO3 to pH <2
327A9M7	N	W			1x500-mL G/P	6010_METALS_ICP: DURA LIST (23)	6 Months	HNO3 to pH <2
327A9M7	N	W			1x250-mL G/P	2320_ALKALINITY: Alkalinity (1)	14 Days	Cool<4C
327A9M7	N	W			1x500-mL G/P	ALPHABETA_GPC: Alpha discrete + Beta (2) ALPHABETA_GPC: Alpha discrete + Beta (2)	6 Months	HNO3 to pH <2
327A9M7	N	W			1x1000-mL G/P	AMCMISO_IE_PREC_AEA: Am-241 (1)	180 Days	HNO3 to pH <2
327A9M7	N	W			1x1-L G/P	Strontium-89,90 – Total Sr	6 Months	HNO3 to pH <2
327A9M7	N	W			1x1000-mL G/P	TC99_3MOSK_LSC: Tc-99 (1)	6 Months	HCl to pH <2
327A9M7	N	W			1x250-mL G	TRITIUM_EIE_LSC: Tritium (1)	6 Months	None
327A9M7	N	W			3x1000-mL aG	TPH-Diesel Range - NWTPH-D	14/40 Days	HCl to pH <2 Cool<4C

Relinquished By	Date/Time	Received By	Date/Time
[illegible]	1430 DEC 17 2010	M. Nelson M Nelson	1430 DEC 17 2010

Matrix*
S = Soil; SD = Sediment; SL = Sludge; P = Paint; SO = Solid; W = Water; WW = Wastewater; DW = Drinking Water; L = Liquid; O = Oil; V = Vegetation; A = Air; X = Other

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

A-6001-542 (REV 2)