



PNNL-19179

Prepared for the U.S. Department of Energy  
under Contract DE-AC05-76RL01830

# Analytical Data Report of Grab Samples Collected From 200-ZP-1 Remedial Action Wells

Michael Lindberg

February 2010



## DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor Battelle Memorial Institute, nor any of their employees, makes **any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.** Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof, or Battelle Memorial Institute. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

PACIFIC NORTHWEST NATIONAL LABORATORY

*operated by*

BATTELLE

*for the*

UNITED STATES DEPARTMENT OF ENERGY

*under Contract DE-AC05-76RL01830*

Printed in the United States of America

Available to DOE and DOE contractors from the  
Office of Scientific and Technical Information,  
P.O. Box 62, Oak Ridge, TN 37831-0062;  
ph: (865) 576-8401  
fax: (865) 576-5728  
email: [reports@adonis.osti.gov](mailto:reports@adonis.osti.gov)

Available to the public from the National Technical Information Service,  
U.S. Department of Commerce, 5285 Port Royal Rd., Springfield, VA 22161  
ph: (800) 553-6847  
fax: (703) 605-6900  
email: [orders@ntis.fedworld.gov](mailto:orders@ntis.fedworld.gov)  
online ordering: <http://www.ntis.gov/ordering.htm>



This document was printed on recycled paper.

(9/2003)

# **Analytical Data Report of Grab Samples Collected From 200-ZP-1 Remedial Action Wells**

M Lindberg

February 2010

Prepared for the U.S. Department of Energy  
under Contract DE-AC05-76RL01830

Pacific Northwest National Laboratory  
Richland, Washington 99352

02/19/10 13:30

To: Dale Dyekman

From: Michael J. Lindberg

A handwritten signature in black ink, appearing to read 'MJL', is centered below the 'From' field.

Environmental Sciences Laboratory  
Energy and Environment Directorate, Pacific Northwest National Laboratory

Subject: Analytical Data Report for Sediment Samples Collected From 200-ZP-1 Remedial Action Wells, Sample Delivery Group ESL090002, SAF Number F09-012

This letter contains the following information for sample delivery group ESL090002

- Cover Sheet
- Narrative
- Analytical Results
- Quality Control
- Chain of Custodies



**Introduction**

Between February 12, 2009 and August 3, 2009 sediment samples were received from 200-ZP-1 Remedial Action Wells for geochemical studies.

**Analytical Results/Methodology**

The analyses for this project were performed at the 325 building located in the 300 Area of the Hanford Site. The analyses were performed according to Pacific Northwest National Laboratory (PNNL) approved procedures and/or nationally recognized test procedures. The data sets include the sample identification numbers, analytical results, estimated quantification limits (EQL), and quality control data.

**Quality Control**

The preparatory and analytical quality control requirements, calibration requirements, acceptance criteria, and failure actions are defined in the on-line QA plan “Conducting Analytical Work in Support of Regulatory Programs” (CAW). This QA plan implements the Hanford Analytical Services Quality Assurance Requirements Documents (HASQARD) for PNNL.

**Definitions**

Dup	Duplicate
RPD	Relative Percent Difference
NR	No Recovery (percent recovery less than zero)
ND	Non-Detectable
%REC	Percent Recovery

**Sample Receipt**

Samples were received with a chain of custody (COC) and were analyzed according to the sample identification numbers supplied by the client. All Samples were refrigerated upon receipt until prepared for analysis.

All samples were received with custody seals intact unless noted in the Case Narrative.

**Holding Times**

Holding time is defined as the time from sample preparation to the time of analyses. The prescribed holding times were met for all analytes unless noted in the Case Narrative.

**Analytical Results**

All reported analytical results meet the requirements of the CAW or client specified SOW unless noted in the case narrative.

## Case Narrative Report

### Hold Time:

Sample 0902002-01 failed hold criteria for Total Carbon-NP.

Sampled = 02/09/09 12:57

Prepared = 03/10/09 14:04

Analyzed = 03/10/09 15:40

Sampled->Analyzed > 28.00 days

Sample 0902002-01 failed hold criteria for Total Inorganic Carbon-NP.

Sampled = 02/09/09 12:57

Prepared = 03/11/09 08:19

Analyzed = 03/11/09 10:22

Sampled->Analyzed > 28.00 days

Sample 0902002-05 failed hold criteria for Total Carbon-NP.

Sampled = 03/03/09 13:07

Prepared = 04/15/09 09:55

Analyzed = 04/16/09 11:04

Sampled->Analyzed > 28.00 days

Sample 0902002-05 failed hold criteria for Total Inorganic Carbon-NP.

Sampled = 03/03/09 13:07

Prepared = 04/16/09 14:58

Analyzed = 04/21/09 14:43

Sampled->Analyzed > 28.00 days

Sample 0902002-26 failed hold criteria for Total Carbon-NP.

Sampled = 04/22/09 08:55

Prepared = 06/02/09 08:25

Analyzed = 06/02/09 10:37

Sampled->Analyzed > 28.00 days

Sample 0902002-26 failed hold criteria for Total Inorganic Carbon-NP.

Sampled = 04/22/09 08:55

Prepared = 06/02/09 08:49

Analyzed = 06/02/09 13:40

Sampled->Analyzed > 28.00 days

Sample 0902002-27 failed hold criteria for Total Carbon-NP.

Sampled = 04/27/09 10:46

Prepared = 06/02/09 08:25

Analyzed = 06/02/09 10:48

Sampled->Analyzed > 28.00 days

Sample 0902002-27 failed hold criteria for Total Inorganic Carbon-NP.

Sampled = 04/27/09 10:46

Prepared = 06/02/09 08:49

Analyzed = 06/02/09 13:50

Sampled->Analyzed > 28.00 days

## Case Narrative Report

### Hold Time:

Sample 0902002-28 failed hold criteria for Total Carbon-NP.

Sampled = 04/29/09 08:15

Prepared = 06/02/09 08:25

Analyzed = 06/02/09 10:58

Sampled->Analyzed > 28.00 days

Sample 0902002-28 failed hold criteria for Total Inorganic Carbon-NP.

Sampled = 04/29/09 08:15

Prepared = 06/02/09 08:49

Analyzed = 06/02/09 14:02

Sampled->Analyzed > 28.00 days

Sample 0902002-29 failed hold criteria for Total Carbon-NP.

Sampled = 05/01/09 11:40

Prepared = 06/02/09 08:25

Analyzed = 06/02/09 11:09

Sampled->Analyzed > 28.00 days

Sample 0902002-29 failed hold criteria for Total Inorganic Carbon-NP.

Sampled = 05/01/09 11:40

Prepared = 06/02/09 08:49

Analyzed = 06/02/09 14:12

Sampled->Analyzed > 28.00 days

Sample 0902002-31 failed hold criteria for Total Carbon-NP.

Sampled = 05/05/09 08:25

Prepared = 06/02/09 08:25

Analyzed = 06/02/09 11:33

Sampled->Analyzed > 28.00 days

Sample 0902002-31 failed hold criteria for Total Inorganic Carbon-NP.

Sampled = 05/05/09 08:25

Prepared = 06/02/09 08:49

Analyzed = 06/02/09 14:30

Sampled->Analyzed > 28.00 days

Sample 0902002-37 failed hold criteria for Total Carbon-NP.

Sampled = 06/26/09 08:45

Prepared = 10/05/09 10:19

Analyzed = 10/05/09 11:34

Sampled->Analyzed > 28.00 days

Sample 0902002-37 failed hold criteria for Total Inorganic Carbon-NP.

Sampled = 06/26/09 08:45

Prepared = 10/05/09 10:19

Analyzed = 10/05/09 14:03

Sampled->Analyzed > 28.00 days

## Case Narrative Report

### **Preparation Blank (PB):**

QC Sample 9E07004-BLK1 failed criteria for Antimony 121 in ICPMS-RCRA-WE.

MDL = 0.000658 ug/g

MRL = 0.000658 ug/g

Result = 0.0140 ug/g

Criterion = 1 x MRL

Sample results associated with this batch were less than the EQL. There should be no impact to the data as reported.

### **Duplicate (DUP):**

Duplicate RPD for Chloride (47.7%) was above the acceptance limit (35) in 9C10004-DUP1 for Anions by IC-WE

All other duplicates and QC associated with the batch were in limits. Duplicate failure may be due to sample heterogeneity. There should be no impact to sample data as reported.

Duplicate RPD for Antimony 121 (44.5%) was above the acceptance limit (35) in 9E07002-DUP1 for ICPMS-RCRA-WE

The sample and duplicate values were less than 10 times the EQL. The 35% criterion does not apply.

### **Laboratory Control Samples (LCS):**

Bismuth, Lithium, Phosphorus, Strontium, and Zirconium are not present in the LCS. All analytes present in the LCS were in limits. There should be no impact to data as reported.

### **Post Spike (PS):**

Post-Spike Recovery for Lead 208 (65.4%) was outside acceptance limits (75-125) in 9E07006-PS1 for ICPMS-RCRA-AE

The native sample concentration was greater than 5 times the spike concentration. There should be not impact to data as reported.

Post-Spike Recovery for Aluminum (407%) was outside acceptance limits (75-125) in 9E12001-PS1 for ICP-OES Vadose-AE

The native sample concentration was greater than 5 times the spike concentration. There should be not impact to data as reported.

Post-Spike Recovery for Calcium (386%) was outside acceptance limits (75-125) in 9E12001-PS1 for ICP-OES Vadose-AE

The native sample concentration was greater than 5 times the spike concentration. There should be not impact to data as reported.

Post-Spike Recovery for Iron (538%) was outside acceptance limits (75-125) in 9E12001-PS1 for ICP-OES Vadose-AE

The native sample concentration was greater than 5 times the spike concentration. There should be not impact to data as reported.

Post-Spike Recovery for Manganese (126%) was outside acceptance limits (75-125) in 9E12001-PS1 for ICP-OES Vadose-AE

The native sample concentration was greater than 5 times the spike concentration. There should be not impact to data as reported.

Post-Spike Recovery for Sodium (127%) was outside acceptance limits (75-125) in 9E12002-PS1 for ICP-OES Vadose-WE

The native sample concentration was greater than 5 times the spike concentration. There should be not impact to data as reported.

Post-Spike Recovery for Sodium (136%) was outside acceptance limits (75-125) in 9E12003-PS1 for ICP-OES Vadose-WE

The native sample concentration was greater than 5 times the spike concentration. There should be not impact to data as reported.

Post-Spike Recovery for Sodium (132%) was outside acceptance limits (75-125) in 9E12005-PS1 for ICP-OES Vadose-WE

The native sample concentration was greater than 5 times the spike concentration. There should be not impact to data as reported.

### **Matrix Spike (MS):**

No Discrepancies Noted.

### **Other QC Criteria:**

No Discrepancies Noted.

## DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor Battelle Memorial Institute, nor any of their employees, makes **any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.** Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof, or Battelle Memorial Institute. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

The following analyses were performed on the following samples included in this report:

---

Metals 1:1 DI Water Extract by ICPMS

Metals Acid Extract by ICPMS

1:1 DI Water Extract

AGG-TOC-001

Anions By Ion Chromatography

Carbon, Total, Combustion or Oxidation

GEA No Preparation

Inorganic Carbon, Total, Combustion or Oxidation

Metals 1:1 Water Extract by ICPOES

Metals Acid Extract by ICPOES

Moisture Content

Nitric Acid Digestion

Percent Solids

## SAMPLES ANALYZED IN THIS REPORT

<b>HEIS No.</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
B1YD07	0902002-01	SOIL	2/9/09 12:57	2/12/09 13:50
B1YD08	0902002-02	SOIL	3/2/09 10:00	3/12/09 10:30
B1YD09	0902002-03	SOIL	3/3/09 09:00	3/12/09 10:30
B1YD74	0902002-04	SOIL	3/4/09 15:08	3/12/09 10:30
B1YND4	0902002-05	SOIL	3/3/09 13:07	4/1/09 13:00
B1YND5	0902002-06	SOIL	4/1/09 09:05	4/1/09 13:00
B1YND7	0902002-07	SOIL	3/27/09 09:30	4/1/09 13:00
B1YM90	0902002-08	SOIL	3/26/09 12:56	4/1/09 13:00
B1YM91	0902002-09	SOIL	4/6/09 08:02	4/9/09 14:15
B1YND6	0902002-10	SOIL	4/3/09 12:00	4/9/09 14:15
B1YD75	0902002-11	SOIL	3/28/09 13:45	4/9/09 14:15
B1YM92	0902002-12	SOIL	4/10/09 12:10	4/16/09 12:00
B1YM93	0902002-13	SOIL	4/15/09 08:05	4/16/09 12:00
B1YNV5	0902002-14	SOIL	4/15/09 07:30	4/16/09 12:00
B1YD76	0902002-15	SOIL	4/20/09 08:48	4/27/09 13:10
B1YD88	0902002-16	SOIL	4/21/09 08:48	4/27/09 13:10
B1YD77	0902002-17	SOIL	4/22/09 07:06	4/27/09 13:10
B1YD78	0902002-18	SOIL	4/22/09 16:23	4/27/09 13:10
B1YD79	0902002-19	SOIL	4/24/09 07:50	4/27/09 13:10
B1YND9	0902002-20	SOIL	4/9/09 15:25	4/30/09 13:00
B1YNF0	0902002-21	SOIL	4/9/09 15:25	4/30/09 13:00
B1YNF1	0902002-22	SOIL	4/20/09 08:25	4/30/09 13:00
B1YD80	0902002-23	SOIL	4/24/09 08:30	4/30/09 13:00
B1YD81	0902002-24	SOIL	4/28/09 09:00	4/30/09 13:00
B1YD82	0902002-25	SOIL	4/29/09 08:54	4/30/09 13:00
B1YNF2	0902002-26	SOIL	4/22/09 08:55	5/13/09 13:00
B1YNF3	0902002-27	SOIL	4/27/09 10:46	5/13/09 13:00
B1YNF4	0902002-28	SOIL	4/29/09 08:15	5/13/09 13:00
B1YNF5	0902002-29	SOIL	5/1/09 11:40	5/13/09 13:00
B1YNF6	0902002-30	SOIL	5/6/09 15:22	5/13/09 13:00
B1YD83	0902002-31	SOIL	5/5/09 08:25	5/13/09 13:00
B1YM97	0902002-37	SOIL	6/26/09 08:45	8/3/09 13:00

## Wet Chemistry

### Moisture Content (% by Weight) by AGG-WC-001

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0902002-01	B1YD07	3.94E0	N/A	3/16/09	9C09001
0902002-02	B1YD08	4.66E0	N/A	3/26/09	9C23002
0902002-03	B1YD09	5.30E0	N/A	3/26/09	9C23002
0902002-04	B1YD74	9.40E0	N/A	3/26/09	9C23002
0902002-05	B1YND4	6.57E-1	N/A	4/08/09	9D06001
0902002-06	B1YND5	6.23E0	N/A	4/08/09	9D06001
0902002-07	B1YND7	4.46E0	N/A	4/08/09	9D06001
0902002-08	B1YM90	1.65E1	N/A	4/08/09	9D06001
0902002-09	B1YM91	1.00E1	N/A	4/16/09	9D06001
0902002-10	B1YND6	1.44E1	N/A	4/22/09	9D06001
0902002-11	B1YD75	9.98E0	N/A	4/22/09	9D06001
0902002-12	B1YM92	6.59E0	N/A	4/22/09	9D06001
0902002-13	B1YM93	1.56E1	N/A	4/22/09	9D06001
0902002-14	B1YNV5	8.52E0	N/A	4/22/09	9D06001
0902002-15	B1YD76	1.25E1	N/A	6/22/09	9E29002
0902002-16	B1YD88	1.31E1	N/A	6/22/09	9E29002
0902002-17	B1YD77	1.77E1	N/A	6/22/09	9E29002
0902002-18	B1YD78	2.74E1	N/A	6/22/09	9E29002
0902002-19	B1YD79	2.99E1	N/A	6/22/09	9E29002
0902002-20	B1YND9	7.95E0	N/A	6/22/09	9E29002
0902002-21	B1YNF0	7.50E0	N/A	6/22/09	9E29002
0902002-22	B1YNF1	7.49E0	N/A	6/22/09	9E29002
0902002-23	B1YD80	3.83E1	N/A	6/22/09	9E29002
0902002-24	B1YD81	9.88E0	N/A	6/22/09	9E29002
0902002-25	B1YD82	8.03E1	N/A	6/22/09	9E29002
0902002-26	B1YNF2	1.92E1	N/A	6/22/09	9E29002
0902002-27	B1YNF3	1.01E1	N/A	6/22/09	9E29002
0902002-28	B1YNF4	1.87E1	N/A	6/22/09	9E29002
0902002-29	B1YNF5	2.60E1	N/A	6/22/09	9E29002
0902002-30	B1YNF6	9.16E0	N/A	6/22/09	9E29002
0902002-31	B1YD83	1.82E1	N/A	6/22/09	9E29002
0902002-37	B1YM97	1.25E1	N/A	2/10/10	0B08009



## Anions by Ion Chromatography

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YD07</b>	<b>Lab ID: 0902002-01</b>					
16984-48-8	Fluoride	5.50E-1	ug/g dry	2.16E-1	3/10/09	9C10004	AGG-IC-001
16887-00-6	Chloride	3.83E0	ug/g dry	5.39E-1	3/10/09	9C10004	AGG-IC-001
14797-65-0	Nitrite	<1.08E0	ug/g dry	1.08E0	3/10/09	9C10004	AGG-IC-001
14797-55-8	Nitrate	2.92E0	ug/g dry	1.08E0	3/10/09	9C10004	AGG-IC-001
14808-79-8	Sulfate	1.51E1	ug/g dry	1.62E0	3/10/09	9C10004	AGG-IC-001
14265-44-2	Phosphate	<1.62E0	ug/g dry	1.62E0	3/10/09	9C10004	AGG-IC-001
<b>HEIS No.</b>	<b>B1YD08</b>	<b>Lab ID: 0902002-02</b>					
16984-48-8	Fluoride	2.06E0	ug/g dry	2.20E-1	3/24/09	9C25004	AGG-IC-001
16887-00-6	Chloride	2.55E0	ug/g dry	5.51E-1	3/24/09	9C25004	AGG-IC-001
14797-65-0	Nitrite	<1.10E0	ug/g dry	1.10E0	3/24/09	9C25004	AGG-IC-001
14797-55-8	Nitrate	<1.10E0	ug/g dry	1.10E0	3/24/09	9C25004	AGG-IC-001
14808-79-8	Sulfate	7.97E0	ug/g dry	1.65E0	3/24/09	9C25004	AGG-IC-001
14265-44-2	Phosphate	<1.65E0	ug/g dry	1.65E0	3/24/09	9C25004	AGG-IC-001
<b>HEIS No.</b>	<b>B1YD09</b>	<b>Lab ID: 0902002-03</b>					
16984-48-8	Fluoride	7.05E-1	ug/g dry	2.22E-1	3/24/09	9C25004	AGG-IC-001
16887-00-6	Chloride	2.65E0	ug/g dry	5.55E-1	3/24/09	9C25004	AGG-IC-001
14797-65-0	Nitrite	<1.11E0	ug/g dry	1.11E0	3/24/09	9C25004	AGG-IC-001
14797-55-8	Nitrate	8.70E0	ug/g dry	1.11E0	3/24/09	9C25004	AGG-IC-001
14808-79-8	Sulfate	4.96E0	ug/g dry	1.66E0	3/24/09	9C25004	AGG-IC-001
14265-44-2	Phosphate	<1.66E0	ug/g dry	1.66E0	3/24/09	9C25004	AGG-IC-001
<b>HEIS No.</b>	<b>B1YND4</b>	<b>Lab ID: 0902002-05</b>					
16984-48-8	Fluoride	3.21E-1	ug/g dry	2.00E-1	4/14/09	9D14001	AGG-IC-001
16887-00-6	Chloride	8.96E-1	ug/g dry	5.01E-1	4/14/09	9D14001	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	4/14/09	9D14001	AGG-IC-001
14797-55-8	Nitrate	2.01E0	ug/g dry	1.00E0	4/14/09	9D14001	AGG-IC-001
14808-79-8	Sulfate	1.41E1	ug/g dry	1.50E0	4/14/09	9D14001	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	4/14/09	9D14001	AGG-IC-001
<b>HEIS No.</b>	<b>B1YND5</b>	<b>Lab ID: 0902002-06</b>					
16984-48-8	Fluoride	5.67E-1	ug/g dry	2.00E-1	4/14/09	9D14001	AGG-IC-001
16887-00-6	Chloride	4.10E0	ug/g dry	5.00E-1	4/14/09	9D14001	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	4/14/09	9D14001	AGG-IC-001
14797-55-8	Nitrate	<1.00E0	ug/g dry	1.00E0	4/14/09	9D14001	AGG-IC-001
14808-79-8	Sulfate	5.97E0	ug/g dry	1.50E0	4/14/09	9D14001	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	4/14/09	9D14001	AGG-IC-001
<b>HEIS No.</b>	<b>B1YND7</b>	<b>Lab ID: 0902002-07</b>					
16984-48-8	Fluoride	1.28E0	ug/g dry	1.99E-1	4/14/09	9D14001	AGG-IC-001
16887-00-6	Chloride	6.90E0	ug/g dry	4.98E-1	4/14/09	9D14001	AGG-IC-001
14797-65-0	Nitrite	<9.96E-1	ug/g dry	9.96E-1	4/14/09	9D14001	AGG-IC-001
14797-55-8	Nitrate	1.44E0	ug/g dry	9.96E-1	4/14/09	9D14001	AGG-IC-001
14808-79-8	Sulfate	1.66E1	ug/g dry	1.49E0	4/14/09	9D14001	AGG-IC-001
14265-44-2	Phosphate	<1.49E0	ug/g dry	1.49E0	4/14/09	9D14001	AGG-IC-001
<b>HEIS No.</b>	<b>B1YM90</b>	<b>Lab ID: 0902002-08</b>					
16984-48-8	Fluoride	3.88E-1	ug/g dry	2.00E-1	4/14/09	9D14001	AGG-IC-001
16887-00-6	Chloride	2.72E1	ug/g dry	5.00E-1	4/14/09	9D14001	AGG-IC-001
14797-65-0	Nitrite	1.49E0	ug/g dry	1.00E0	4/14/09	9D14001	AGG-IC-001
14797-55-8	Nitrate	5.54E1	ug/g dry	1.00E0	4/14/09	9D14001	AGG-IC-001
14808-79-8	Sulfate	5.39E1	ug/g dry	1.50E0	4/14/09	9D14001	AGG-IC-001
14265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	4/14/09	9D14001	AGG-IC-001

## Anions by Ion Chromatography

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YM91</b>	<b>Lab ID: 0902002-09</b>					
16984-48-8	Fluoride	5.31E-1	ug/g dry	2.15E-1	4/14/09	9D14001	AGG-IC-001
16887-00-6	Chloride	1.74E0	ug/g dry	5.36E-1	4/14/09	9D14001	AGG-IC-001
14797-65-0	Nitrite	<1.07E0	ug/g dry	1.07E0	4/14/09	9D14001	AGG-IC-001
14797-55-8	Nitrate	2.51E0	ug/g dry	1.07E0	4/14/09	9D14001	AGG-IC-001
14808-79-8	Sulfate	6.17E0	ug/g dry	1.61E0	4/14/09	9D14001	AGG-IC-001
14265-44-2	Phosphate	<1.61E0	ug/g dry	1.61E0	4/14/09	9D14001	AGG-IC-001
<b>HEIS No.</b>	<b>B1YM92</b>	<b>Lab ID: 0902002-12</b>					
16984-48-8	Fluoride	5.59E-1	ug/g dry	2.01E-1	4/21/09	9D21001	AGG-IC-001
16887-00-6	Chloride	1.36E1	ug/g dry	5.03E-1	4/21/09	9D21001	AGG-IC-001
14797-65-0	Nitrite	<1.01E0	ug/g dry	1.01E0	4/21/09	9D21001	AGG-IC-001
14797-55-8	Nitrate	3.91E1	ug/g dry	1.01E0	4/21/09	9D21001	AGG-IC-001
14808-79-8	Sulfate	2.23E1	ug/g dry	1.51E0	4/21/09	9D21001	AGG-IC-001
14265-44-2	Phosphate	<1.51E0	ug/g dry	1.51E0	4/21/09	9D21001	AGG-IC-001

## Total Metals by PNNL-AGG-ICP-AES/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YD07</b>	<b>Lab ID: 0902002-01</b>					
7429-90-5	Aluminum	1.10E-1	ug/g dry	1.01E-1	5/13/09	9E12002	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.48E0	ug/g dry	1.48E0	5/13/09	9E12002	PNNL-AGG-ICP-AES
7440-39-3	Barium	<1.34E-1	ug/g dry	1.34E-1	5/13/09	9E12002	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<1.42E-2	ug/g dry	1.42E-2	5/13/09	9E12002	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<3.29E-1	ug/g dry	3.29E-1	5/13/09	9E12002	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.11E1	ug/g dry	4.89E-1	5/13/09	9E12002	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	<1.41E-1	ug/g dry	1.41E-1	5/13/09	9E12002	PNNL-AGG-ICP-AES
7440-50-8	Copper	<9.49E-2	ug/g dry	9.49E-2	5/13/09	9E12002	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.13E-1	ug/g dry	1.13E-1	5/13/09	9E12002	PNNL-AGG-ICP-AES
7440-09-7	Potassium	4.40E0	ug/g dry	1.39E0	5/13/09	9E12002	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<8.07E-1	ug/g dry	8.07E-1	5/13/09	9E12002	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.40E0	ug/g dry	5.28E-2	5/13/09	9E12002	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<6.75E-2	ug/g dry	6.75E-2	5/13/09	9E12002	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<1.52E-1	ug/g dry	1.52E-1	5/13/09	9E12002	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	<6.51E-1	ug/g dry	6.51E-1	5/13/09	9E12002	PNNL-AGG-ICP-AES
7440-24-6	Strontium	<8.66E-2	ug/g dry	8.66E-2	5/13/09	9E12002	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	<1.44E-1	ug/g dry	1.44E-1	5/13/09	9E12002	PNNL-AGG-ICP-AES
7440-66-6	Zinc	<1.06E-1	ug/g dry	1.06E-1	5/13/09	9E12002	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.26E1	ug/g dry	8.61E-1	5/13/09	9E12002	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	<1.39E-1	ug/g dry	1.39E-1	5/13/09	9E12002	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YD08</b>	<b>Lab ID: 0902002-02</b>					
7429-90-5	Aluminum	3.13E-1	ug/g dry	1.03E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.51E0	ug/g dry	1.51E0	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-39-3	Barium	<1.36E-1	ug/g dry	1.36E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<1.44E-2	ug/g dry	1.44E-2	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<3.35E-1	ug/g dry	3.35E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	4.66E0	ug/g dry	4.98E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	<1.44E-1	ug/g dry	1.44E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-50-8	Copper	<9.67E-2	ug/g dry	9.67E-2	5/13/09	9E12003	PNNL-AGG-ICP-AES
7439-89-6	Iron	3.91E-1	ug/g dry	1.15E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	3.44E0	ug/g dry	1.42E0	5/13/09	9E12003	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<8.23E-1	ug/g dry	8.23E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.47E0	ug/g dry	5.38E-2	5/13/09	9E12003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<6.88E-2	ug/g dry	6.88E-2	5/13/09	9E12003	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<1.55E-1	ug/g dry	1.55E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	<6.64E-1	ug/g dry	6.64E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-24-6	Strontium	<8.83E-2	ug/g dry	8.83E-2	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	<1.47E-1	ug/g dry	1.47E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-66-6	Zinc	<1.08E-1	ug/g dry	1.08E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.19E1	ug/g dry	8.78E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	<1.42E-1	ug/g dry	1.42E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YD09</b>	<b>Lab ID: 0902002-03</b>					
7429-90-5	Aluminum	5.90E-1	ug/g dry	1.04E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.52E0	ug/g dry	1.52E0	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-39-3	Barium	<1.37E-1	ug/g dry	1.37E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<1.45E-2	ug/g dry	1.45E-2	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<3.38E-1	ug/g dry	3.38E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	2.39E0	ug/g dry	5.02E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES

## Total Metals by PNNL-AGG-ICP-AES/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YD09</b>	<b>Lab ID: 0902002-03</b>					
7440-48-4	Cobalt	<1.45E-1	ug/g dry	1.45E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-50-8	Copper	<9.74E-2	ug/g dry	9.74E-2	5/13/09	9E12003	PNNL-AGG-ICP-AES
7439-89-6	Iron	7.38E-1	ug/g dry	1.16E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	2.18E0	ug/g dry	1.43E0	5/13/09	9E12003	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<8.28E-1	ug/g dry	8.28E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	8.08E-1	ug/g dry	5.42E-2	5/13/09	9E12003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<6.93E-2	ug/g dry	6.93E-2	5/13/09	9E12003	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<1.56E-1	ug/g dry	1.56E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	<6.69E-1	ug/g dry	6.69E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-24-6	Strontium	<8.89E-2	ug/g dry	8.89E-2	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	<1.48E-1	ug/g dry	1.48E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-66-6	Zinc	<1.08E-1	ug/g dry	1.08E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.13E1	ug/g dry	8.84E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	<1.43E-1	ug/g dry	1.43E-1	5/13/09	9E12003	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YND4</b>	<b>Lab ID: 0902002-05</b>					
7429-90-5	Aluminum	<9.38E-2	ug/g dry	9.38E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.37E0	ug/g dry	1.37E0	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-39-3	Barium	<1.24E-1	ug/g dry	1.24E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<1.31E-2	ug/g dry	1.31E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<3.05E-1	ug/g dry	3.05E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-70-2	Calcium	9.02E0	ug/g dry	4.53E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	<1.31E-1	ug/g dry	1.31E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-50-8	Copper	<8.79E-2	ug/g dry	8.79E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.05E-1	ug/g dry	1.05E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-09-7	Potassium	2.82E0	ug/g dry	1.29E0	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<7.48E-1	ug/g dry	7.48E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.48E0	ug/g dry	4.89E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<6.25E-2	ug/g dry	6.25E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<1.41E-1	ug/g dry	1.41E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	1.74E0	ug/g dry	6.04E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-24-6	Strontium	<8.03E-2	ug/g dry	8.03E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	<1.33E-1	ug/g dry	1.33E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-66-6	Zinc	<9.79E-2	ug/g dry	9.79E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-23-5	Sodium	8.18E0	ug/g dry	7.98E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	<1.29E-1	ug/g dry	1.29E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YND5</b>	<b>Lab ID: 0902002-06</b>					
7429-90-5	Aluminum	5.26E-1	ug/g dry	9.37E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.37E0	ug/g dry	1.37E0	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-39-3	Barium	<1.24E-1	ug/g dry	1.24E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<1.31E-2	ug/g dry	1.31E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<3.04E-1	ug/g dry	3.04E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-70-2	Calcium	8.14E0	ug/g dry	4.52E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	<1.31E-1	ug/g dry	1.31E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-50-8	Copper	<8.79E-2	ug/g dry	8.79E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-89-6	Iron	4.80E-1	ug/g dry	1.05E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-09-7	Potassium	3.51E0	ug/g dry	1.29E0	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<7.47E-1	ug/g dry	7.47E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.03E0	ug/g dry	4.89E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES

## Total Metals by PNNL-AGG-ICP-AES/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YND5</b>	<b>Lab ID: 0902002-06</b>					
7439-96-5	Manganese	<6.25E-2	ug/g dry	6.25E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<1.41E-1	ug/g dry	1.41E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	<6.03E-1	ug/g dry	6.03E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-24-6	Strontium	<8.02E-2	ug/g dry	8.02E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	<1.33E-1	ug/g dry	1.33E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-66-6	Zinc	<9.78E-2	ug/g dry	9.78E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.22E1	ug/g dry	7.97E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	<1.29E-1	ug/g dry	1.29E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YND7</b>	<b>Lab ID: 0902002-07</b>					
7429-90-5	Aluminum	3.29E-1	ug/g dry	9.34E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.36E0	ug/g dry	1.36E0	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-39-3	Barium	<1.23E-1	ug/g dry	1.23E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<1.31E-2	ug/g dry	1.31E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<3.03E-1	ug/g dry	3.03E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.42E0	ug/g dry	4.51E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	<1.30E-1	ug/g dry	1.30E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-50-8	Copper	<8.75E-2	ug/g dry	8.75E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-89-6	Iron	3.08E-1	ug/g dry	1.04E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-09-7	Potassium	4.62E0	ug/g dry	1.29E0	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<7.44E-1	ug/g dry	7.44E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.19E0	ug/g dry	4.87E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<6.22E-2	ug/g dry	6.22E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<1.40E-1	ug/g dry	1.40E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	<6.01E-1	ug/g dry	6.01E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-24-6	Strontium	<7.99E-2	ug/g dry	7.99E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	<1.33E-1	ug/g dry	1.33E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-66-6	Zinc	<9.74E-2	ug/g dry	9.74E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.23E1	ug/g dry	7.94E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	<1.28E-1	ug/g dry	1.28E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YM90</b>	<b>Lab ID: 0902002-08</b>					
7429-90-5	Aluminum	<9.38E-2	ug/g dry	9.38E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.37E0	ug/g dry	1.37E0	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-39-3	Barium	<1.24E-1	ug/g dry	1.24E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<1.31E-2	ug/g dry	1.31E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<3.04E-1	ug/g dry	3.04E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-70-2	Calcium	5.45E1	ug/g dry	4.52E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	<1.31E-1	ug/g dry	1.31E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-50-8	Copper	<8.79E-2	ug/g dry	8.79E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.05E-1	ug/g dry	1.05E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-09-7	Potassium	6.38E0	ug/g dry	1.29E0	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<7.47E-1	ug/g dry	7.47E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.17E1	ug/g dry	4.89E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<6.25E-2	ug/g dry	6.25E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<1.41E-1	ug/g dry	1.41E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	1.47E1	ug/g dry	6.03E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-24-6	Strontium	2.54E-1	ug/g dry	8.02E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	<1.33E-1	ug/g dry	1.33E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-66-6	Zinc	<9.78E-2	ug/g dry	9.78E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES

## Total Metals by PNNL-AGG-ICP-AES/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YM90</b>	<b>Lab ID: 0902002-08</b>					
7440-23-5	Sodium	2.84E1	ug/g dry	7.98E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	<1.29E-1	ug/g dry	1.29E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YM91</b>	<b>Lab ID: 0902002-09</b>					
7429-90-5	Aluminum	3.83E-1	ug/g dry	1.01E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.47E0	ug/g dry	1.47E0	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-39-3	Barium	<1.33E-1	ug/g dry	1.33E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<1.41E-2	ug/g dry	1.41E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<3.26E-1	ug/g dry	3.26E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-70-2	Calcium	8.33E0	ug/g dry	4.85E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	<1.40E-1	ug/g dry	1.40E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-50-8	Copper	<9.42E-2	ug/g dry	9.42E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-89-6	Iron	3.68E-1	ug/g dry	1.12E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-09-7	Potassium	3.32E0	ug/g dry	1.39E0	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<8.01E-1	ug/g dry	8.01E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.73E0	ug/g dry	5.24E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<6.70E-2	ug/g dry	6.70E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<1.51E-1	ug/g dry	1.51E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	<6.47E-1	ug/g dry	6.47E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-24-6	Strontium	<8.60E-2	ug/g dry	8.60E-2	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	<1.43E-1	ug/g dry	1.43E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-66-6	Zinc	<1.05E-1	ug/g dry	1.05E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-23-5	Sodium	9.43E0	ug/g dry	8.55E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	<1.38E-1	ug/g dry	1.38E-1	5/13/09	9E12004	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YM92</b>	<b>Lab ID: 0902002-12</b>					
7429-90-5	Aluminum	3.10E-1	ug/g dry	9.43E-2	5/13/09	9E12005	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.38E0	ug/g dry	1.38E0	5/13/09	9E12005	PNNL-AGG-ICP-AES
7440-39-3	Barium	<1.25E-1	ug/g dry	1.25E-1	5/13/09	9E12005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<1.32E-2	ug/g dry	1.32E-2	5/13/09	9E12005	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<3.06E-1	ug/g dry	3.06E-1	5/13/09	9E12005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.98E1	ug/g dry	4.55E-1	5/13/09	9E12005	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	<1.32E-1	ug/g dry	1.32E-1	5/13/09	9E12005	PNNL-AGG-ICP-AES
7440-50-8	Copper	<8.84E-2	ug/g dry	8.84E-2	5/13/09	9E12005	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.06E-1	ug/g dry	1.06E-1	5/13/09	9E12005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	5.99E0	ug/g dry	1.30E0	5/13/09	9E12005	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<7.52E-1	ug/g dry	7.52E-1	5/13/09	9E12005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	5.99E0	ug/g dry	4.92E-2	5/13/09	9E12005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<6.29E-2	ug/g dry	6.29E-2	5/13/09	9E12005	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<1.41E-1	ug/g dry	1.41E-1	5/13/09	9E12005	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	<6.07E-1	ug/g dry	6.07E-1	5/13/09	9E12005	PNNL-AGG-ICP-AES
7440-24-6	Strontium	9.00E-2	ug/g dry	8.07E-2	5/13/09	9E12005	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	<1.34E-1	ug/g dry	1.34E-1	5/13/09	9E12005	PNNL-AGG-ICP-AES
7440-66-6	Zinc	<9.84E-2	ug/g dry	9.84E-2	5/13/09	9E12005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.67E1	ug/g dry	8.02E-1	5/13/09	9E12005	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	<1.29E-1	ug/g dry	1.29E-1	5/13/09	9E12005	PNNL-AGG-ICP-AES

## Total Metals by PNNL-AGG-ICP-AES/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YD07</b>	<b>Lab ID: 0902002-01</b>					
7429-90-5	Aluminum	5.29E3	ug/g dry	2.32E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-42-8	Boron	<9.93E1	ug/g dry	9.93E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.29E1	ug/g dry	1.41E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<7.92E-1	ug/g dry	7.92E-1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<9.76E0	ug/g dry	9.76E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-70-2	Calcium	2.72E3	ug/g dry	2.41E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	6.30E0	ug/g dry	4.95E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-50-8	Copper	7.91E0	ug/g dry	6.63E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.61E4	ug/g dry	6.23E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-09-7	Potassium	6.36E2	ug/g dry	8.87E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<2.15E1	ug/g dry	2.15E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.03E3	ug/g dry	6.60E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.02E2	ug/g dry	2.07E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<7.87E0	ug/g dry	7.87E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	2.85E2	ug/g dry	3.06E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-24-6	Strontium	1.60E1	ug/g dry	1.51E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	2.18E1	ug/g dry	4.14E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-66-6	Zinc	2.86E1	ug/g dry	3.78E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.87E2	ug/g dry	6.53E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	6.02E0	ug/g dry	2.77E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YD08</b>	<b>Lab ID: 0902002-02</b>					
7429-90-5	Aluminum	9.25E3	ug/g dry	2.40E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.03E2	ug/g dry	1.03E2	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-39-3	Barium	8.50E1	ug/g dry	1.46E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<8.21E-1	ug/g dry	8.21E-1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	1.78E1	ug/g dry	1.01E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.18E4	ug/g dry	2.49E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	9.08E0	ug/g dry	5.13E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-50-8	Copper	9.28E0	ug/g dry	6.87E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.98E4	ug/g dry	6.46E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.78E3	ug/g dry	9.19E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<2.23E1	ug/g dry	2.23E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	5.52E3	ug/g dry	6.84E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-96-5	Manganese	3.48E2	ug/g dry	2.15E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<8.15E0	ug/g dry	8.15E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	6.05E2	ug/g dry	3.17E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-24-6	Strontium	4.26E1	ug/g dry	1.56E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	3.02E1	ug/g dry	4.30E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-66-6	Zinc	4.16E1	ug/g dry	3.92E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.29E2	ug/g dry	6.77E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	1.38E1	ug/g dry	2.88E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YD09</b>	<b>Lab ID: 0902002-03</b>					
7429-90-5	Aluminum	7.12E3	ug/g dry	2.38E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.02E2	ug/g dry	1.02E2	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-39-3	Barium	7.89E1	ug/g dry	1.45E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<8.14E-1	ug/g dry	8.14E-1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<1.00E1	ug/g dry	1.00E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-70-2	Calcium	3.08E3	ug/g dry	2.47E1	5/12/09	9E12001	PNNL-AGG-ICP-AES

## Total Metals by PNNL-AGG-ICP-AES/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YD09</b>	<b>Lab ID: 0902002-03</b>					
7440-48-4	Cobalt	7.31E0	ug/g dry	5.09E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-50-8	Copper	<6.81E0	ug/g dry	6.81E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.85E4	ug/g dry	6.41E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.73E3	ug/g dry	9.12E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<2.21E1	ug/g dry	2.21E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.50E3	ug/g dry	6.78E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-96-5	Manganese	6.80E2	ug/g dry	2.13E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<8.09E0	ug/g dry	8.09E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	3.42E2	ug/g dry	3.15E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-24-6	Strontium	1.91E1	ug/g dry	1.55E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	2.25E1	ug/g dry	4.26E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-66-6	Zinc	5.25E1	ug/g dry	3.88E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.37E2	ug/g dry	6.71E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	8.69E0	ug/g dry	2.85E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YND4</b>	<b>Lab ID: 0902002-05</b>					
7429-90-5	Aluminum	7.57E3	ug/g dry	2.29E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-42-8	Boron	<9.84E1	ug/g dry	9.84E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.60E1	ug/g dry	1.40E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<7.84E-1	ug/g dry	7.84E-1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	1.74E1	ug/g dry	9.67E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-70-2	Calcium	8.45E3	ug/g dry	2.38E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	6.92E0	ug/g dry	4.90E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-50-8	Copper	7.69E0	ug/g dry	6.56E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.75E4	ug/g dry	6.17E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.30E3	ug/g dry	8.78E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<2.13E1	ug/g dry	2.13E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	5.30E3	ug/g dry	6.53E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.81E2	ug/g dry	2.05E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<7.79E0	ug/g dry	7.79E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	4.52E2	ug/g dry	3.03E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-24-6	Strontium	3.40E1	ug/g dry	1.50E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	2.48E1	ug/g dry	4.10E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-66-6	Zinc	3.34E1	ug/g dry	3.74E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.74E2	ug/g dry	6.46E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	4.76E0	ug/g dry	2.75E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YND5</b>	<b>Lab ID: 0902002-06</b>					
7429-90-5	Aluminum	6.40E3	ug/g dry	2.43E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.04E2	ug/g dry	1.04E2	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.91E1	ug/g dry	1.48E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<8.30E-1	ug/g dry	8.30E-1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	1.03E1	ug/g dry	1.02E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-70-2	Calcium	3.89E3	ug/g dry	2.52E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	8.69E0	ug/g dry	5.19E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-50-8	Copper	9.19E0	ug/g dry	6.95E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.80E4	ug/g dry	6.53E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-09-7	Potassium	5.87E2	ug/g dry	9.30E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<2.26E1	ug/g dry	2.26E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.86E3	ug/g dry	6.92E0	5/12/09	9E12001	PNNL-AGG-ICP-AES



## Total Metals by PNNL-AGG-ICP-AES/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YND5</b>	<b>Lab ID: 0902002-06</b>					
7439-96-5	Manganese	2.29E2	ug/g dry	2.17E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<8.25E0	ug/g dry	8.25E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	3.88E2	ug/g dry	3.21E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-24-6	Strontium	1.94E1	ug/g dry	1.58E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	2.99E1	ug/g dry	4.35E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-66-6	Zinc	3.27E1	ug/g dry	3.96E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.85E2	ug/g dry	6.84E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	8.67E0	ug/g dry	2.91E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YND7</b>	<b>Lab ID: 0902002-07</b>					
7429-90-5	Aluminum	8.72E3	ug/g dry	2.39E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.02E2	ug/g dry	1.02E2	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.23E2	ug/g dry	1.45E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<8.16E-1	ug/g dry	8.16E-1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<1.01E1	ug/g dry	1.01E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-70-2	Calcium	4.62E3	ug/g dry	2.48E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	8.75E0	ug/g dry	5.10E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-50-8	Copper	2.30E1	ug/g dry	6.83E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-89-6	Iron	2.04E4	ug/g dry	6.42E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.09E3	ug/g dry	9.14E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<2.22E1	ug/g dry	2.22E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.48E3	ug/g dry	6.80E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-96-5	Manganese	4.30E2	ug/g dry	2.13E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<8.10E0	ug/g dry	8.10E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	4.28E2	ug/g dry	3.15E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-24-6	Strontium	2.84E1	ug/g dry	1.56E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	3.41E1	ug/g dry	4.27E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-66-6	Zinc	4.28E1	ug/g dry	3.89E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-23-5	Sodium	6.61E2	ug/g dry	6.72E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	9.92E0	ug/g dry	2.86E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YM90</b>	<b>Lab ID: 0902002-08</b>					
7429-90-5	Aluminum	1.22E4	ug/g dry	2.65E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.14E2	ug/g dry	1.14E2	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.07E2	ug/g dry	1.61E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<9.05E-1	ug/g dry	9.05E-1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	1.14E1	ug/g dry	1.12E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.15E4	ug/g dry	2.75E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	9.12E0	ug/g dry	5.66E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-50-8	Copper	1.43E1	ug/g dry	7.57E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.94E4	ug/g dry	7.12E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-09-7	Potassium	2.23E3	ug/g dry	1.01E2	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<2.46E1	ug/g dry	2.46E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	7.24E3	ug/g dry	7.54E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-96-5	Manganese	3.98E2	ug/g dry	2.37E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<8.99E0	ug/g dry	8.99E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	6.44E2	ug/g dry	3.50E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-24-6	Strontium	3.62E1	ug/g dry	1.73E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	2.10E1	ug/g dry	4.74E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-66-6	Zinc	4.60E1	ug/g dry	4.32E0	5/12/09	9E12001	PNNL-AGG-ICP-AES

## Total Metals by PNNL-AGG-ICP-AES/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YM90</b>	<b>Lab ID: 0902002-08</b>					
7440-23-5	Sodium	2.21E2	ug/g dry	7.46E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	8.13E0	ug/g dry	3.17E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YM91</b>	<b>Lab ID: 0902002-09</b>					
7429-90-5	Aluminum	6.98E3	ug/g dry	2.47E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.06E2	ug/g dry	1.06E2	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.02E2	ug/g dry	1.51E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<8.45E-1	ug/g dry	8.45E-1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<1.04E1	ug/g dry	1.04E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-70-2	Calcium	3.33E3	ug/g dry	2.57E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	9.73E0	ug/g dry	5.29E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-50-8	Copper	7.54E0	ug/g dry	7.07E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.98E4	ug/g dry	6.65E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.79E2	ug/g dry	9.46E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<2.30E1	ug/g dry	2.30E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.48E3	ug/g dry	7.04E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-96-5	Manganese	5.00E2	ug/g dry	2.21E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<8.39E0	ug/g dry	8.39E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	4.34E2	ug/g dry	3.27E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-24-6	Strontium	1.91E1	ug/g dry	1.61E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	2.29E1	ug/g dry	4.42E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-66-6	Zinc	3.50E1	ug/g dry	4.03E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.99E2	ug/g dry	6.97E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	8.44E0	ug/g dry	2.96E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
<b>HEIS No.</b>	<b>B1YM92</b>	<b>Lab ID: 0902002-12</b>					
7429-90-5	Aluminum	6.73E3	ug/g dry	2.43E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-42-8	Boron	<1.04E2	ug/g dry	1.04E2	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.87E1	ug/g dry	1.48E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<8.31E-1	ug/g dry	8.31E-1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-69-9	Bismuth	<1.03E1	ug/g dry	1.03E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-70-2	Calcium	5.34E3	ug/g dry	2.53E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-48-4	Cobalt	8.31E0	ug/g dry	5.20E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-50-8	Copper	7.95E0	ug/g dry	6.96E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.81E4	ug/g dry	6.54E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-09-7	Potassium	6.28E2	ug/g dry	9.31E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-93-2	Lithium	<2.26E1	ug/g dry	2.26E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.93E3	ug/g dry	6.93E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-96-5	Manganese	4.57E2	ug/g dry	2.17E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7439-98-7	Molybdenum	<8.26E0	ug/g dry	8.26E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7723-14-0	Phosphorus	3.75E2	ug/g dry	3.21E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-24-6	Strontium	1.84E1	ug/g dry	1.59E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-62-2	Vanadium	2.67E1	ug/g dry	4.35E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-66-6	Zinc	3.17E1	ug/g dry	3.97E0	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.76E2	ug/g dry	6.85E1	5/12/09	9E12001	PNNL-AGG-ICP-AES
7440-67-7	Zirconium	7.61E0	ug/g dry	2.91E0	5/12/09	9E12001	PNNL-AGG-ICP-AES

## RCRA Metals By PNNL-AGG-415/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YD07</b>	<b>Lab ID: 0902002-01</b>					
14092-98-9	Chromium	<3.72E-3	ug/g dry	3.72E-3	5/07/09	9E07001	PNNL-AGG-415
7440-38-2	Arsenic	1.32E-2	ug/g dry	3.06E-3	5/07/09	9E07001	PNNL-AGG-415
14687-58-2	Selenium	<8.55E-3	ug/g dry	8.55E-3	5/07/09	9E07001	PNNL-AGG-415
14378-37-1	Silver	<3.38E-3	ug/g dry	3.38E-3	5/07/09	9E07001	PNNL-AGG-415
14336-64-2	Cadmium	<6.19E-4	ug/g dry	6.19E-4	5/07/09	9E07001	PNNL-AGG-415
14265-72-6	Antimony	<7.11E-4	ug/g dry	7.11E-4	5/07/09	9E07001	PNNL-AGG-415
13966-28-4	Lead	<1.26E-3	ug/g dry	1.26E-3	5/07/09	9E07001	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YD08</b>	<b>Lab ID: 0902002-02</b>					
14092-98-9	Chromium	<3.79E-3	ug/g dry	3.79E-3	5/07/09	9E07002	PNNL-AGG-415
7440-38-2	Arsenic	<3.12E-3	ug/g dry	3.12E-3	5/07/09	9E07002	PNNL-AGG-415
14687-58-2	Selenium	<8.72E-3	ug/g dry	8.72E-3	5/07/09	9E07002	PNNL-AGG-415
14378-37-1	Silver	<3.44E-3	ug/g dry	3.44E-3	5/07/09	9E07002	PNNL-AGG-415
14336-64-2	Cadmium	<6.31E-4	ug/g dry	6.31E-4	5/07/09	9E07002	PNNL-AGG-415
14265-72-6	Antimony	1.84E-3	ug/g dry	7.25E-4	5/07/09	9E07002	PNNL-AGG-415
13966-28-4	Lead	<1.28E-3	ug/g dry	1.28E-3	5/07/09	9E07002	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YD09</b>	<b>Lab ID: 0902002-03</b>					
14092-98-9	Chromium	<3.82E-3	ug/g dry	3.82E-3	5/07/09	9E07002	PNNL-AGG-415
7440-38-2	Arsenic	<3.15E-3	ug/g dry	3.15E-3	5/07/09	9E07002	PNNL-AGG-415
14687-58-2	Selenium	<8.78E-3	ug/g dry	8.78E-3	5/07/09	9E07002	PNNL-AGG-415
14378-37-1	Silver	<3.47E-3	ug/g dry	3.47E-3	5/07/09	9E07002	PNNL-AGG-415
14336-64-2	Cadmium	<6.36E-4	ug/g dry	6.36E-4	5/07/09	9E07002	PNNL-AGG-415
14265-72-6	Antimony	1.47E-3	ug/g dry	7.30E-4	5/07/09	9E07002	PNNL-AGG-415
13966-28-4	Lead	<1.29E-3	ug/g dry	1.29E-3	5/07/09	9E07002	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YND4</b>	<b>Lab ID: 0902002-05</b>					
14092-98-9	Chromium	<3.45E-3	ug/g dry	3.45E-3	5/07/09	9E07003	PNNL-AGG-415
7440-38-2	Arsenic	1.34E-2	ug/g dry	2.84E-3	5/07/09	9E07003	PNNL-AGG-415
14687-58-2	Selenium	<7.93E-3	ug/g dry	7.93E-3	5/07/09	9E07003	PNNL-AGG-415
14378-37-1	Silver	<3.13E-3	ug/g dry	3.13E-3	5/07/09	9E07003	PNNL-AGG-415
14336-64-2	Cadmium	<5.74E-4	ug/g dry	5.74E-4	5/07/09	9E07003	PNNL-AGG-415
14265-72-6	Antimony	<6.59E-4	ug/g dry	6.59E-4	5/07/09	9E07003	PNNL-AGG-415
13966-28-4	Lead	<1.16E-3	ug/g dry	1.16E-3	5/07/09	9E07003	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YND5</b>	<b>Lab ID: 0902002-06</b>					
14092-98-9	Chromium	<3.45E-3	ug/g dry	3.45E-3	5/07/09	9E07003	PNNL-AGG-415
7440-38-2	Arsenic	3.79E-3	ug/g dry	2.84E-3	5/07/09	9E07003	PNNL-AGG-415
14687-58-2	Selenium	<7.92E-3	ug/g dry	7.92E-3	5/07/09	9E07003	PNNL-AGG-415
14378-37-1	Silver	<3.13E-3	ug/g dry	3.13E-3	5/07/09	9E07003	PNNL-AGG-415
14336-64-2	Cadmium	<5.73E-4	ug/g dry	5.73E-4	5/07/09	9E07003	PNNL-AGG-415
14265-72-6	Antimony	7.66E-4	ug/g dry	6.59E-4	5/07/09	9E07003	PNNL-AGG-415
13966-28-4	Lead	<1.16E-3	ug/g dry	1.16E-3	5/07/09	9E07003	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YND7</b>	<b>Lab ID: 0902002-07</b>					
14092-98-9	Chromium	<3.43E-3	ug/g dry	3.43E-3	5/07/09	9E07003	PNNL-AGG-415
7440-38-2	Arsenic	4.72E-3	ug/g dry	2.83E-3	5/07/09	9E07003	PNNL-AGG-415
14687-58-2	Selenium	<7.89E-3	ug/g dry	7.89E-3	5/07/09	9E07003	PNNL-AGG-415
14378-37-1	Silver	<3.12E-3	ug/g dry	3.12E-3	5/07/09	9E07003	PNNL-AGG-415
14336-64-2	Cadmium	<5.71E-4	ug/g dry	5.71E-4	5/07/09	9E07003	PNNL-AGG-415
14265-72-6	Antimony	5.52E-3	ug/g dry	6.56E-4	5/07/09	9E07003	PNNL-AGG-415
13966-28-4	Lead	<1.16E-3	ug/g dry	1.16E-3	5/07/09	9E07003	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YM90</b>	<b>Lab ID: 0902002-08</b>					

## RCRA Metals By PNNL-AGG-415/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YM90</b>	<b>Lab ID: 0902002-08</b>					
14092-98-9	Chromium	1.27E-1	ug/g dry	3.45E-3	5/07/09	9E07003	PNNL-AGG-415
7440-38-2	Arsenic	7.51E-3	ug/g dry	2.84E-3	5/07/09	9E07003	PNNL-AGG-415
14687-58-2	Selenium	<7.92E-3	ug/g dry	7.92E-3	5/07/09	9E07003	PNNL-AGG-415
14378-37-1	Silver	<3.13E-3	ug/g dry	3.13E-3	5/07/09	9E07003	PNNL-AGG-415
14336-64-2	Cadmium	<5.73E-4	ug/g dry	5.73E-4	5/07/09	9E07003	PNNL-AGG-415
14265-72-6	Antimony	<6.59E-4	ug/g dry	6.59E-4	5/07/09	9E07003	PNNL-AGG-415
13966-28-4	Lead	<1.16E-3	ug/g dry	1.16E-3	5/07/09	9E07003	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YM91</b>	<b>Lab ID: 0902002-09</b>					
14092-98-9	Chromium	<3.69E-3	ug/g dry	3.69E-3	5/07/09	9E07003	PNNL-AGG-415
7440-38-2	Arsenic	<3.04E-3	ug/g dry	3.04E-3	5/07/09	9E07003	PNNL-AGG-415
14687-58-2	Selenium	<8.49E-3	ug/g dry	8.49E-3	5/07/09	9E07003	PNNL-AGG-415
14378-37-1	Silver	<3.35E-3	ug/g dry	3.35E-3	5/07/09	9E07003	PNNL-AGG-415
14336-64-2	Cadmium	<6.15E-4	ug/g dry	6.15E-4	5/07/09	9E07003	PNNL-AGG-415
14265-72-6	Antimony	<7.06E-4	ug/g dry	7.06E-4	5/07/09	9E07003	PNNL-AGG-415
13966-28-4	Lead	<1.25E-3	ug/g dry	1.25E-3	5/07/09	9E07003	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YM92</b>	<b>Lab ID: 0902002-12</b>					
14092-98-9	Chromium	<3.47E-3	ug/g dry	3.47E-3	5/07/09	9E07004	PNNL-AGG-415
7440-38-2	Arsenic	<2.85E-3	ug/g dry	2.85E-3	5/07/09	9E07004	PNNL-AGG-415
14687-58-2	Selenium	<7.97E-3	ug/g dry	7.97E-3	5/07/09	9E07004	PNNL-AGG-415
14378-37-1	Silver	<3.15E-3	ug/g dry	3.15E-3	5/07/09	9E07004	PNNL-AGG-415
14336-64-2	Cadmium	<5.77E-4	ug/g dry	5.77E-4	5/07/09	9E07004	PNNL-AGG-415
14265-72-6	Antimony	<6.63E-4	ug/g dry	6.63E-4	5/07/09	9E07004	PNNL-AGG-415
13966-28-4	Lead	<1.17E-3	ug/g dry	1.17E-3	5/07/09	9E07004	PNNL-AGG-415

## RCRA Metals By PNNL-AGG-415/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YD07</b>	<b>Lab ID: 0902002-01</b>					
14092-98-9	Chromium	1.43E1	ug/g dry	6.46E-1	5/08/09	9E07006	PNNL-AGG-415
7440-38-2	Arsenic	5.25E-1	ug/g dry	2.81E-1	5/08/09	9E07006	PNNL-AGG-415
14687-58-2	Selenium	<5.43E-1	ug/g dry	5.43E-1	5/08/09	9E07006	PNNL-AGG-415
14378-37-1	Silver	<1.76E-2	ug/g dry	1.76E-2	5/08/09	9E07006	PNNL-AGG-415
14336-64-2	Cadmium	<4.64E-2	ug/g dry	4.64E-2	5/08/09	9E07006	PNNL-AGG-415
14265-72-6	Antimony	<1.80E-1	ug/g dry	1.80E-1	5/08/09	9E07006	PNNL-AGG-415
13966-28-4	Lead	2.14E0	ug/g dry	1.76E-1	5/08/09	9E07006	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YD08</b>	<b>Lab ID: 0902002-02</b>					
14092-98-9	Chromium	1.36E1	ug/g dry	6.69E-1	5/08/09	9E07006	PNNL-AGG-415
7440-38-2	Arsenic	3.04E0	ug/g dry	2.91E-1	5/08/09	9E07006	PNNL-AGG-415
14687-58-2	Selenium	<5.63E-1	ug/g dry	5.63E-1	5/08/09	9E07006	PNNL-AGG-415
14378-37-1	Silver	4.29E-2	ug/g dry	1.82E-2	5/08/09	9E07006	PNNL-AGG-415
14336-64-2	Cadmium	6.28E-2	ug/g dry	4.81E-2	5/08/09	9E07006	PNNL-AGG-415
14265-72-6	Antimony	<1.87E-1	ug/g dry	1.87E-1	5/08/09	9E07006	PNNL-AGG-415
13966-28-4	Lead	3.75E0	ug/g dry	1.82E-1	5/08/09	9E07006	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YD09</b>	<b>Lab ID: 0902002-03</b>					
14092-98-9	Chromium	1.09E1	ug/g dry	6.64E-1	5/08/09	9E07006	PNNL-AGG-415
7440-38-2	Arsenic	2.94E-1	ug/g dry	2.89E-1	5/08/09	9E07006	PNNL-AGG-415
14687-58-2	Selenium	<5.59E-1	ug/g dry	5.59E-1	5/08/09	9E07006	PNNL-AGG-415
14378-37-1	Silver	<1.81E-2	ug/g dry	1.81E-2	5/08/09	9E07006	PNNL-AGG-415
14336-64-2	Cadmium	<4.77E-2	ug/g dry	4.77E-2	5/08/09	9E07006	PNNL-AGG-415
14265-72-6	Antimony	<1.85E-1	ug/g dry	1.85E-1	5/08/09	9E07006	PNNL-AGG-415
13966-28-4	Lead	1.08E0	ug/g dry	1.81E-1	5/08/09	9E07006	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YND4</b>	<b>Lab ID: 0902002-05</b>					
14092-98-9	Chromium	1.31E1	ug/g dry	6.39E-1	5/08/09	9E07006	PNNL-AGG-415
7440-38-2	Arsenic	3.43E0	ug/g dry	2.78E-1	5/08/09	9E07006	PNNL-AGG-415
14687-58-2	Selenium	<5.38E-1	ug/g dry	5.38E-1	5/08/09	9E07006	PNNL-AGG-415
14378-37-1	Silver	2.86E-2	ug/g dry	1.74E-2	5/08/09	9E07006	PNNL-AGG-415
14336-64-2	Cadmium	<4.60E-2	ug/g dry	4.60E-2	5/08/09	9E07006	PNNL-AGG-415
14265-72-6	Antimony	<1.79E-1	ug/g dry	1.79E-1	5/08/09	9E07006	PNNL-AGG-415
13966-28-4	Lead	3.06E0	ug/g dry	1.74E-1	5/08/09	9E07006	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YND5</b>	<b>Lab ID: 0902002-06</b>					
14092-98-9	Chromium	1.70E1	ug/g dry	6.77E-1	5/08/09	9E07006	PNNL-AGG-415
7440-38-2	Arsenic	1.47E0	ug/g dry	2.95E-1	5/08/09	9E07006	PNNL-AGG-415
14687-58-2	Selenium	<5.70E-1	ug/g dry	5.70E-1	5/08/09	9E07006	PNNL-AGG-415
14378-37-1	Silver	2.02E-2	ug/g dry	1.84E-2	5/08/09	9E07006	PNNL-AGG-415
14336-64-2	Cadmium	6.56E-2	ug/g dry	4.87E-2	5/08/09	9E07006	PNNL-AGG-415
14265-72-6	Antimony	<1.89E-1	ug/g dry	1.89E-1	5/08/09	9E07006	PNNL-AGG-415
13966-28-4	Lead	2.63E0	ug/g dry	1.85E-1	5/08/09	9E07006	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YND7</b>	<b>Lab ID: 0902002-07</b>					
14092-98-9	Chromium	2.91E1	ug/g dry	6.65E-1	5/08/09	9E07006	PNNL-AGG-415
7440-38-2	Arsenic	3.84E-1	ug/g dry	2.90E-1	5/08/09	9E07006	PNNL-AGG-415
14687-58-2	Selenium	<5.60E-1	ug/g dry	5.60E-1	5/08/09	9E07006	PNNL-AGG-415
14378-37-1	Silver	2.42E-2	ug/g dry	1.81E-2	5/08/09	9E07006	PNNL-AGG-415
14336-64-2	Cadmium	<4.78E-2	ug/g dry	4.78E-2	5/08/09	9E07006	PNNL-AGG-415
14265-72-6	Antimony	<1.86E-1	ug/g dry	1.86E-1	5/08/09	9E07006	PNNL-AGG-415
13966-28-4	Lead	2.67E0	ug/g dry	1.81E-1	5/08/09	9E07006	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YM90</b>	<b>Lab ID: 0902002-08</b>					

## RCRA Metals By PNNL-AGG-415/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YM90</b>	<b>Lab ID: 0902002-08</b>					
14092-98-9	Chromium	1.78E1	ug/g dry	7.38E-1	5/11/09	9E07006	PNNL-AGG-415
7440-38-2	Arsenic	5.50E0	ug/g dry	3.21E-1	5/11/09	9E07006	PNNL-AGG-415
14687-58-2	Selenium	<6.21E-1	ug/g dry	6.21E-1	5/11/09	9E07006	PNNL-AGG-415
14378-37-1	Silver	6.32E-2	ug/g dry	2.01E-2	5/11/09	9E07006	PNNL-AGG-415
14336-64-2	Cadmium	6.69E-2	ug/g dry	5.30E-2	5/11/09	9E07006	PNNL-AGG-415
14265-72-6	Antimony	<2.06E-1	ug/g dry	2.06E-1	5/11/09	9E07006	PNNL-AGG-415
13966-28-4	Lead	6.02E0	ug/g dry	2.01E-1	5/11/09	9E07006	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YM91</b>	<b>Lab ID: 0902002-09</b>					
14092-98-9	Chromium	1.72E1	ug/g dry	6.89E-1	5/08/09	9E07006	PNNL-AGG-415
7440-38-2	Arsenic	4.16E-1	ug/g dry	3.00E-1	5/08/09	9E07006	PNNL-AGG-415
14687-58-2	Selenium	<5.80E-1	ug/g dry	5.80E-1	5/08/09	9E07006	PNNL-AGG-415
14378-37-1	Silver	<1.88E-2	ug/g dry	1.88E-2	5/08/09	9E07006	PNNL-AGG-415
14336-64-2	Cadmium	<4.95E-2	ug/g dry	4.95E-2	5/08/09	9E07006	PNNL-AGG-415
14265-72-6	Antimony	<1.92E-1	ug/g dry	1.92E-1	5/08/09	9E07006	PNNL-AGG-415
13966-28-4	Lead	2.56E0	ug/g dry	1.88E-1	5/08/09	9E07006	PNNL-AGG-415
<b>HEIS No.</b>	<b>B1YM92</b>	<b>Lab ID: 0902002-12</b>					
14092-98-9	Chromium	1.97E1	ug/g dry	6.78E-1	5/08/09	9E07006	PNNL-AGG-415
7440-38-2	Arsenic	3.92E-1	ug/g dry	2.95E-1	5/08/09	9E07006	PNNL-AGG-415
14687-58-2	Selenium	<5.71E-1	ug/g dry	5.71E-1	5/08/09	9E07006	PNNL-AGG-415
14378-37-1	Silver	<1.85E-2	ug/g dry	1.85E-2	5/08/09	9E07006	PNNL-AGG-415
14336-64-2	Cadmium	<4.87E-2	ug/g dry	4.87E-2	5/08/09	9E07006	PNNL-AGG-415
14265-72-6	Antimony	<1.89E-1	ug/g dry	1.89E-1	5/08/09	9E07006	PNNL-AGG-415
13966-28-4	Lead	2.50E0	ug/g dry	1.85E-1	5/08/09	9E07006	PNNL-AGG-415

## Carbon Analysis/Soil

### Total Organic Carbon (ug/g) by AGG-TOC-001

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0902002-01	B1YD07	<2.00E2	2.00E2	3/11/09	[CALC]
0902002-02	B1YD08	2.61E2	2.00E2	3/27/09	[CALC]
0902002-03	B1YD09	2.00E2	2.00E2	3/27/09	[CALC]
0902002-04	B1YD74	<2.00E2	2.00E2	3/27/09	[CALC]
0902002-05	B1YND4	5.03E2	2.00E2	4/21/09	[CALC]
0902002-06	B1YND5	2.68E2	2.00E2	4/21/09	[CALC]
0902002-07	B1YND7	3.59E2	2.00E2	4/21/09	[CALC]
0902002-08	B1YM90	3.16E3	2.00E2	4/21/09	[CALC]
0902002-09	B1YM91	3.92E2	2.00E2	4/22/09	[CALC]
0902002-10	B1YND6	<2.00E2	2.00E2	4/22/09	[CALC]
0902002-11	B1YD75	2.46E2	2.00E2	4/22/09	[CALC]
0902002-12	B1YM92	2.52E2	2.00E2	4/22/09	[CALC]
0902002-13	B1YM93	8.97E2	2.00E2	4/22/09	[CALC]
0902002-14	B1YNV5	<2.00E2	2.00E2	4/22/09	[CALC]
0902002-15	B1YD76	<2.00E2	2.00E2	5/06/09	[CALC]
0902002-16	B1YD88	2.85E2	2.00E2	5/06/09	[CALC]
0902002-17	B1YD77	3.47E2	2.00E2	5/06/09	[CALC]
0902002-18	B1YD78	2.05E2	2.00E2	5/06/09	[CALC]
0902002-19	B1YD79	5.93E2	2.00E2	5/06/09	[CALC]
0902002-20	B1YND9	4.81E2	2.00E2	5/07/09	[CALC]
0902002-21	B1YNF0	5.76E2	2.00E2	5/07/09	[CALC]
0902002-22	B1YNF1	1.53E3	2.00E2	5/07/09	[CALC]
0902002-23	B1YD80	5.21E2	2.00E2	5/07/09	[CALC]
0902002-24	B1YD81	2.22E2	2.00E2	5/07/09	[CALC]
0902002-25	B1YD82	1.99E3	2.00E2	5/07/09	[CALC]
0902002-26	B1YNF2	2.36E2	2.00E2	6/02/09	[CALC]
0902002-27	B1YNF3	3.75E2	2.00E2	6/02/09	[CALC]
0902002-28	B1YNF4	<2.00E2	2.00E2	6/02/09	[CALC]
0902002-29	B1YNF5	<2.00E2	2.00E2	6/02/09	[CALC]
0902002-30	B1YNF6	2.74E2	2.00E2	6/02/09	[CALC]
0902002-31	B1YD83	2.26E2	2.00E2	6/02/09	[CALC]
0902002-37	B1YM97	<2.00E2	2.00E2	10/05/09	[CALC]

## Carbon Analysis/Soil

### Total Carbon (ug/g) by AGG-TOC-001

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0902002-01	B1YD07	2.42E3	2.00E2	3/10/09	9C10005
0902002-02	B1YD08	2.61E2	2.00E2	3/26/09	9C25003
0902002-03	B1YD09	2.00E2	2.00E2	3/26/09	9C25003
0902002-04	B1YD74	<2.00E2	2.00E2	3/26/09	9C25003
0902002-05	B1YND4	2.54E3	2.00E2	4/16/09	9D15004
0902002-06	B1YND5	5.31E2	2.00E2	4/16/09	9D15004
0902002-07	B1YND7	3.59E2	2.00E2	4/16/09	9D15004
0902002-08	B1YM90	6.70E3	2.00E2	4/16/09	9D15004
0902002-09	B1YM91	3.92E2	2.00E2	4/16/09	9D15004
0902002-10	B1YND6	2.62E3	2.00E2	4/16/09	9D15004
0902002-11	B1YD75	1.08E3	2.00E2	4/16/09	9D15004
0902002-12	B1YM92	1.16E3	2.00E2	4/17/09	9D15004
0902002-13	B1YM93	8.97E2	2.00E2	4/17/09	9D15004
0902002-14	B1YNV5	<2.00E2	2.00E2	4/17/09	9D15004
0902002-15	B1YD76	2.17E3	2.00E2	5/05/09	9E05001
0902002-16	B1YD88	3.33E3	2.00E2	5/05/09	9E05001
0902002-17	B1YD77	5.95E2	2.00E2	5/06/09	9E05001
0902002-18	B1YD78	2.05E2	2.00E2	5/06/09	9E05001
0902002-19	B1YD79	5.93E2	2.00E2	5/06/09	9E05001
0902002-20	B1YND9	1.76E3	2.00E2	5/06/09	9E05001
0902002-21	B1YNF0	1.26E3	2.00E2	5/06/09	9E05001
0902002-22	B1YNF1	3.13E4	2.00E2	5/06/09	9E05001
0902002-23	B1YD80	5.21E2	2.00E2	5/06/09	9E05001
0902002-24	B1YD81	2.22E2	2.00E2	5/06/09	9E05001
0902002-25	B1YD82	1.99E3	2.00E2	5/06/09	9E05001
0902002-26	B1YNF2	8.39E2	2.00E2	6/02/09	9F02001
0902002-27	B1YNF3	3.75E2	2.00E2	6/02/09	9F02001
0902002-28	B1YNF4	<2.00E2	2.00E2	6/02/09	9F02001
0902002-29	B1YNF5	<2.00E2	2.00E2	6/02/09	9F02001
0902002-30	B1YNF6	7.26E2	2.00E2	6/02/09	9F02001
0902002-31	B1YD83	2.26E2	2.00E2	6/02/09	9F02001
0902002-37	B1YM97	7.03E2	2.00E2	10/05/09	9J05001



## Carbon Analysis/Soil

### Total Inorganic Carbon (ug/g) by AGG-TOC-001

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0902002-01	B1YD07	2.40E3	2.00E2	3/11/09	9C11001
0902002-02	B1YD08	<2.00E2	2.00E2	3/27/09	9C25005
0902002-03	B1YD09	<2.00E2	2.00E2	3/27/09	9C25005
0902002-04	B1YD74	<2.00E2	2.00E2	3/27/09	9C25005
0902002-05	B1YND4	2.04E3	2.00E2	4/21/09	9D16001
0902002-06	B1YND5	2.63E2	2.00E2	4/21/09	9D16001
0902002-07	B1YND7	<2.00E2	2.00E2	4/21/09	9D16001
0902002-08	B1YM90	3.53E3	2.00E2	4/21/09	9D16001
0902002-09	B1YM91	<2.00E2	2.00E2	4/22/09	9D16001
0902002-10	B1YND6	2.46E3	2.00E2	4/22/09	9D16001
0902002-11	B1YD75	8.30E2	2.00E2	4/22/09	9D16001
0902002-12	B1YM92	9.04E2	2.00E2	4/22/09	9D16001
0902002-13	B1YM93	<2.00E2	2.00E2	4/22/09	9D16001
0902002-14	B1YNV5	<2.00E2	2.00E2	4/22/09	9D16001
0902002-15	B1YD76	2.04E3	2.00E2	5/06/09	9E06001
0902002-16	B1YD88	3.04E3	2.00E2	5/06/09	9E06001
0902002-17	B1YD77	2.48E2	2.00E2	5/06/09	9E06001
0902002-18	B1YD78	<2.00E2	2.00E2	5/06/09	9E06001
0902002-19	B1YD79	<2.00E2	2.00E2	5/06/09	9E06001
0902002-20	B1YND9	1.28E3	2.00E2	5/07/09	9E06001
0902002-21	B1YNF0	6.82E2	2.00E2	5/07/09	9E06001
0902002-22	B1YNF1	2.98E4	2.00E2	5/07/09	9E06001
0902002-23	B1YD80	<2.00E2	2.00E2	5/07/09	9E06001
0902002-24	B1YD81	<2.00E2	2.00E2	5/07/09	9E06001
0902002-25	B1YD82	<2.00E2	2.00E2	5/07/09	9E06001
0902002-26	B1YNF2	6.02E2	2.00E2	6/02/09	9F02002
0902002-27	B1YNF3	<2.00E2	2.00E2	6/02/09	9F02002
0902002-28	B1YNF4	<2.00E2	2.00E2	6/02/09	9F02002
0902002-29	B1YNF5	<2.00E2	2.00E2	6/02/09	9F02002
0902002-30	B1YNF6	4.52E2	2.00E2	6/02/09	9F02002
0902002-31	B1YD83	<2.00E2	2.00E2	6/02/09	9F02002
0902002-37	B1YM97	5.39E2	2.00E2	10/05/09	9J05001

# GEA/Soil

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YD07</b>	<b>Lab ID: 0902002-01</b>						
10198-40-0	Cobalt-60	<1.96E-1	pCi/g dry	1.96E-1		4/23/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<2.29E-1	pCi/g dry	2.29E-1		4/23/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<8.07E-1	pCi/g dry	8.07E-1		4/23/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<4.85E-1	pCi/g dry	4.85E-1		4/23/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<7.83E-1	pCi/g dry	7.83E-1		4/23/09	9D23001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YD08</b>	<b>Lab ID: 0902002-02</b>						
10198-40-0	Cobalt-60	<1.94E-1	pCi/g dry	1.94E-1		4/23/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<2.37E-1	pCi/g dry	2.37E-1		4/23/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<8.93E-1	pCi/g dry	8.93E-1		4/23/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<5.15E-1	pCi/g dry	5.15E-1		4/23/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<8.93E-1	pCi/g dry	8.93E-1		4/23/09	9D23001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YD09</b>	<b>Lab ID: 0902002-03</b>						
10198-40-0	Cobalt-60	<1.64E-1	pCi/g dry	1.64E-1		4/24/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<1.92E-1	pCi/g dry	1.92E-1		4/24/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<6.42E-1	pCi/g dry	6.42E-1		4/24/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<4.07E-1	pCi/g dry	4.07E-1		4/24/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<6.25E-1	pCi/g dry	6.25E-1		4/24/09	9D23001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YD74</b>	<b>Lab ID: 0902002-04</b>						
10198-40-0	Cobalt-60	<1.97E-1	pCi/g dry	1.97E-1		4/24/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<2.22E-1	pCi/g dry	2.22E-1		4/24/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<8.83E-1	pCi/g dry	8.83E-1		4/24/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<5.07E-1	pCi/g dry	5.07E-1		4/24/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<8.66E-1	pCi/g dry	8.66E-1		4/24/09	9D23001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YND4</b>	<b>Lab ID: 0902002-05</b>						
10198-40-0	Cobalt-60	<1.62E-1	pCi/g dry	1.62E-1		4/24/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<2.00E-1	pCi/g dry	2.00E-1		4/24/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<6.65E-1	pCi/g dry	6.65E-1		4/24/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<4.22E-1	pCi/g dry	4.22E-1		4/24/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<6.61E-1	pCi/g dry	6.61E-1		4/24/09	9D23001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YND5</b>	<b>Lab ID: 0902002-06</b>						
10198-40-0	Cobalt-60	<1.98E-1	pCi/g dry	1.98E-1		4/24/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<2.28E-1	pCi/g dry	2.28E-1		4/24/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<9.14E-1	pCi/g dry	9.14E-1		4/24/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<5.09E-1	pCi/g dry	5.09E-1		4/24/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<8.54E-1	pCi/g dry	8.54E-1		4/24/09	9D23001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YND7</b>	<b>Lab ID: 0902002-07</b>						
10198-40-0	Cobalt-60	<1.79E-1	pCi/g dry	1.79E-1		4/27/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<2.13E-1	pCi/g dry	2.13E-1		4/27/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<7.38E-1	pCi/g dry	7.38E-1		4/27/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<4.68E-1	pCi/g dry	4.68E-1		4/27/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<7.34E-1	pCi/g dry	7.34E-1		4/27/09	9D23001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YM90</b>	<b>Lab ID: 0902002-08</b>						
10198-40-0	Cobalt-60	<2.82E-1	pCi/g dry	2.82E-1		4/27/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<3.11E-1	pCi/g dry	3.11E-1		4/27/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<1.11E0	pCi/g dry	1.11E0		4/27/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<6.60E-1	pCi/g dry	6.60E-1		4/27/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<1.13E0	pCi/g dry	1.13E0		4/27/09	9D23001	AGG-RRL-001

# GEA/Soil

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YM91</b>	<b>Lab ID: 0902002-09</b>						
10198-40-0	Cobalt-60	<1.55E-1	pCi/g dry	1.55E-1		4/27/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<2.06E-1	pCi/g dry	2.06E-1		4/27/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<6.74E-1	pCi/g dry	6.74E-1		4/27/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<4.27E-1	pCi/g dry	4.27E-1		4/27/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<6.61E-1	pCi/g dry	6.61E-1		4/27/09	9D23001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YND6</b>	<b>Lab ID: 0902002-10</b>						
10198-40-0	Cobalt-60	<2.09E-1	pCi/g dry	2.09E-1		4/27/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<2.38E-1	pCi/g dry	2.38E-1		4/27/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<9.14E-1	pCi/g dry	9.14E-1		4/27/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<5.41E-1	pCi/g dry	5.41E-1		4/27/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<8.97E-1	pCi/g dry	8.97E-1		4/27/09	9D23001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YD75</b>	<b>Lab ID: 0902002-11</b>						
10198-40-0	Cobalt-60	<1.36E-1	pCi/g dry	1.36E-1		4/29/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<1.72E-1	pCi/g dry	1.72E-1		4/29/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<5.71E-1	pCi/g dry	5.71E-1		4/29/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<3.54E-1	pCi/g dry	3.54E-1		4/29/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<5.53E-1	pCi/g dry	5.53E-1		4/29/09	9D23001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YM92</b>	<b>Lab ID: 0902002-12</b>						
10198-40-0	Cobalt-60	<1.84E-1	pCi/g dry	1.84E-1		4/29/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<2.17E-1	pCi/g dry	2.17E-1		4/29/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<8.09E-1	pCi/g dry	8.09E-1		4/29/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<4.80E-1	pCi/g dry	4.80E-1		4/29/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<8.09E-1	pCi/g dry	8.09E-1		4/29/09	9D23001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YM93</b>	<b>Lab ID: 0902002-13</b>						
10198-40-0	Cobalt-60	<1.33E-1	pCi/g dry	1.33E-1		4/29/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<1.58E-1	pCi/g dry	1.58E-1		4/29/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<5.62E-1	pCi/g dry	5.62E-1		4/29/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<3.43E-1	pCi/g dry	3.43E-1		4/29/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<5.47E-1	pCi/g dry	5.47E-1		4/29/09	9D23001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YNV5</b>	<b>Lab ID: 0902002-14</b>						
10198-40-0	Cobalt-60	<1.98E-1	pCi/g dry	1.98E-1		4/29/09	9D23001	AGG-RRL-001
10045-97-3	Cesium-137	<2.25E-1	pCi/g dry	2.25E-1		4/29/09	9D23001	AGG-RRL-001
14683-23-9	Europium-152	<8.38E-1	pCi/g dry	8.38E-1		4/29/09	9D23001	AGG-RRL-001
15585-10-1	Europium-154	<4.85E-1	pCi/g dry	4.85E-1		4/29/09	9D23001	AGG-RRL-001
14391-16-3	Europium-155	<8.06E-1	pCi/g dry	8.06E-1		4/29/09	9D23001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YD76</b>	<b>Lab ID: 0902002-15</b>						
10198-40-0	Cobalt-60	<1.58E-1	pCi/g dry	1.58E-1		6/03/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<1.90E-1	pCi/g dry	1.90E-1		6/03/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<6.58E-1	pCi/g dry	6.58E-1		6/03/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<4.10E-1	pCi/g dry	4.10E-1		6/03/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<6.48E-1	pCi/g dry	6.48E-1		6/03/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YD88</b>	<b>Lab ID: 0902002-16</b>						
10198-40-0	Cobalt-60	<1.70E-1	pCi/g dry	1.70E-1		6/03/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<2.25E-1	pCi/g dry	2.25E-1		6/03/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<8.59E-1	pCi/g dry	8.59E-1		6/03/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<4.90E-1	pCi/g dry	4.90E-1		6/03/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<8.04E-1	pCi/g dry	8.04E-1		6/03/09	9F03001	AGG-RRL-001

# GEA/Soil

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YD77</b>	<b>Lab ID: 0902002-17</b>						
10198-40-0	Cobalt-60	<1.67E-1	pCi/g dry	1.67E-1		6/03/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<2.12E-1	pCi/g dry	2.12E-1		6/03/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<7.12E-1	pCi/g dry	7.12E-1		6/03/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<4.53E-1	pCi/g dry	4.53E-1		6/03/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<6.87E-1	pCi/g dry	6.87E-1		6/03/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YD78</b>	<b>Lab ID: 0902002-18</b>						
10198-40-0	Cobalt-60	<2.53E-1	pCi/g dry	2.53E-1		6/03/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<2.65E-1	pCi/g dry	2.65E-1		6/03/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<1.00E0	pCi/g dry	1.00E0		6/03/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<5.72E-1	pCi/g dry	5.72E-1		6/03/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<9.57E-1	pCi/g dry	9.57E-1		6/03/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YD79</b>	<b>Lab ID: 0902002-19</b>						
10198-40-0	Cobalt-60	<2.10E-1	pCi/g dry	2.10E-1		6/03/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<2.66E-1	pCi/g dry	2.66E-1		6/03/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<9.34E-1	pCi/g dry	9.34E-1		6/03/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<5.87E-1	pCi/g dry	5.87E-1		6/03/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<8.86E-1	pCi/g dry	8.86E-1		6/03/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YND9</b>	<b>Lab ID: 0902002-20</b>						
10198-40-0	Cobalt-60	<2.21E-1	pCi/g dry	2.21E-1		6/03/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<2.45E-1	pCi/g dry	2.45E-1		6/03/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<9.38E-1	pCi/g dry	9.38E-1		6/03/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<5.39E-1	pCi/g dry	5.39E-1		6/03/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<8.96E-1	pCi/g dry	8.96E-1		6/03/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YNF0</b>	<b>Lab ID: 0902002-21</b>						
10198-40-0	Cobalt-60	<2.02E-1	pCi/g dry	2.02E-1		6/04/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<2.46E-1	pCi/g dry	2.46E-1		6/04/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<8.70E-1	pCi/g dry	8.70E-1		6/04/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<5.30E-1	pCi/g dry	5.30E-1		6/04/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<8.17E-1	pCi/g dry	8.17E-1		6/04/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YNF1</b>	<b>Lab ID: 0902002-22</b>						
10198-40-0	Cobalt-60	<2.15E-1	pCi/g dry	2.15E-1		6/04/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<2.67E-1	pCi/g dry	2.67E-1		6/04/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<1.03E0	pCi/g dry	1.03E0		6/04/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<5.70E-1	pCi/g dry	5.70E-1		6/04/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<9.35E-1	pCi/g dry	9.35E-1		6/04/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YD80</b>	<b>Lab ID: 0902002-23</b>						
10198-40-0	Cobalt-60	<1.94E-1	pCi/g dry	1.94E-1		6/04/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<2.46E-1	pCi/g dry	2.46E-1		6/04/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<8.26E-1	pCi/g dry	8.26E-1		6/04/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<5.17E-1	pCi/g dry	5.17E-1		6/04/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<7.96E-1	pCi/g dry	7.96E-1		6/04/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YD81</b>	<b>Lab ID: 0902002-24</b>						
10198-40-0	Cobalt-60	<1.91E-1	pCi/g dry	1.91E-1		6/04/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<2.23E-1	pCi/g dry	2.23E-1		6/04/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<8.47E-1	pCi/g dry	8.47E-1		6/04/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<4.81E-1	pCi/g dry	4.81E-1		6/04/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<8.09E-1	pCi/g dry	8.09E-1		6/04/09	9F03001	AGG-RRL-001

# GEA/Soil

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
<b>HEIS No.</b>	<b>B1YD82</b>	<b>Lab ID: 0902002-25</b>						
10198-40-0	Cobalt-60	<3.64E-1	pCi/g dry	3.64E-1		6/05/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<4.43E-1	pCi/g dry	4.43E-1		6/05/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<1.54E0	pCi/g dry	1.54E0		6/05/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<9.84E-1	pCi/g dry	9.84E-1		6/05/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<1.63E0	pCi/g dry	1.63E0		6/05/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YNF2</b>	<b>Lab ID: 0902002-26</b>						
10198-40-0	Cobalt-60	<2.01E-1	pCi/g dry	2.01E-1		6/05/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<2.55E-1	pCi/g dry	2.55E-1		6/05/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<9.62E-1	pCi/g dry	9.62E-1		6/05/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<5.47E-1	pCi/g dry	5.47E-1		6/05/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<9.06E-1	pCi/g dry	9.06E-1		6/05/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YNF3</b>	<b>Lab ID: 0902002-27</b>						
10198-40-0	Cobalt-60	<2.12E-1	pCi/g dry	2.12E-1		6/08/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<2.62E-1	pCi/g dry	2.62E-1		6/08/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<8.75E-1	pCi/g dry	8.75E-1		6/08/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<5.46E-1	pCi/g dry	5.46E-1		6/08/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<8.23E-1	pCi/g dry	8.23E-1		6/08/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YNF4</b>	<b>Lab ID: 0902002-28</b>						
10198-40-0	Cobalt-60	<3.13E-1	pCi/g dry	3.13E-1		6/08/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<3.47E-1	pCi/g dry	3.47E-1		6/08/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<1.34E0	pCi/g dry	1.34E0		6/08/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<7.25E-1	pCi/g dry	7.25E-1		6/08/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<1.28E0	pCi/g dry	1.28E0		6/08/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YNF5</b>	<b>Lab ID: 0902002-29</b>						
10198-40-0	Cobalt-60	<3.19E-1	pCi/g dry	3.19E-1		6/08/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<3.68E-1	pCi/g dry	3.68E-1		6/08/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<1.30E0	pCi/g dry	1.30E0		6/08/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<7.96E-1	pCi/g dry	7.96E-1		6/08/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<1.24E0	pCi/g dry	1.24E0		6/08/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YNF6</b>	<b>Lab ID: 0902002-30</b>						
10198-40-0	Cobalt-60	<2.46E-1	pCi/g dry	2.46E-1		6/08/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<3.03E-1	pCi/g dry	3.03E-1		6/08/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<1.16E0	pCi/g dry	1.16E0		6/08/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<6.54E-1	pCi/g dry	6.54E-1		6/08/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<1.12E0	pCi/g dry	1.12E0		6/08/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YD83</b>	<b>Lab ID: 0902002-31</b>						
10198-40-0	Cobalt-60	<1.82E-1	pCi/g dry	1.82E-1		6/08/09	9F03001	AGG-RRL-001
10045-97-3	Cesium-137	<2.35E-1	pCi/g dry	2.35E-1		6/08/09	9F03001	AGG-RRL-001
14683-23-9	Europium-152	<8.04E-1	pCi/g dry	8.04E-1		6/08/09	9F03001	AGG-RRL-001
15585-10-1	Europium-154	<5.24E-1	pCi/g dry	5.24E-1		6/08/09	9F03001	AGG-RRL-001
14391-16-3	Europium-155	<8.10E-1	pCi/g dry	8.10E-1		6/08/09	9F03001	AGG-RRL-001
<b>HEIS No.</b>	<b>B1YM97</b>	<b>Lab ID: 0902002-37</b>						
10198-40-0	Cobalt-60	<2.05E-1	pCi/g dry	2.05E-1		2/09/10	0B12010	AGG-RRL-001
10045-97-3	Cesium-137	<2.51E-1	pCi/g dry	2.51E-1		2/09/10	0B12010	AGG-RRL-001
14683-23-9	Europium-152	<9.85E-1	pCi/g dry	9.85E-1		2/09/10	0B12010	AGG-RRL-001
15585-10-1	Europium-154	<5.76E-1	pCi/g dry	5.76E-1		2/09/10	0B12010	AGG-RRL-001
14391-16-3	Europium-155	<8.75E-1	pCi/g dry	8.75E-1		2/09/10	0B12010	AGG-RRL-001

# Anions by Ion Chromatography - Quality Control

## Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9C10004 - 1:1 Water Extract (IC)</b>										
<b>Blank (9C10004-BLK1)</b>				Prepared & Analyzed: 03/10/09						
Fluoride	<2.00E-1	2.00E-1	ug/g wet							
Chloride	<5.00E-1	5.00E-1	"							
Nitrite	<1.00E0	1.00E0	"							
Nitrate	<1.00E0	1.00E0	"							
Sulfate	<1.50E0	1.50E0	"							
Phosphate	<1.50E0	1.50E0	"							
<b>LCS (9C10004-BS1)</b>				Prepared & Analyzed: 03/10/09						
Fluoride	2.01E0	2.07E-1	ug/g wet	2.07E0		97.0	80-120			D
Chloride	5.18E0	5.17E-1	"	5.17E0		100	80-120			D
Nitrite	9.70E0	1.03E0	"	1.03E1		93.7	80-120			D
Nitrate	1.07E1	1.03E0	"	1.03E1		104	80-120			D
Sulfate	1.65E1	1.55E0	"	1.55E1		106	80-120			D
Phosphate	1.56E1	1.55E0	"	1.55E1		100	80-120			D
<b>Duplicate (9C10004-DUP1)</b>				Source: 0902002-01	Prepared & Analyzed: 03/10/09					
Fluoride	4.90E-1	2.16E-1	ug/g dry		5.50E-1			11.6	35	D
Chloride	2.35E0	5.40E-1	"		3.83E0			47.7	35	D
Nitrite	<1.08E0	1.08E0	"		ND				35	
Nitrate	2.39E0	1.08E0	"		2.92E0			19.8	35	D
Sulfate	1.19E1	1.62E0	"		1.51E1			23.8	35	D
Phosphate	<1.62E0	1.62E0	"		ND				35	
<b>Post Spike (9C10004-PS1)</b>				Source: 0902002-01	Prepared & Analyzed: 03/10/09					
Fluoride	1.39E0	N/A	ug/mL	7.69E-1	5.10E-1	115	75-125			D
Chloride	5.35E0	N/A	"	1.92E0	3.55E0	93.4	75-125			D
Nitrite	3.83E0	N/A	"	3.85E0	ND	99.7	75-125			D
Nitrate	6.60E0	N/A	"	3.85E0	2.71E0	101	75-125			D
Sulfate	1.89E1	N/A	"	5.77E0	1.40E1	84.4	75-125			D
Phosphate	5.61E0	N/A	"	5.77E0	ND	97.2	75-125			D

**Anions by Ion Chromatography - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 9C25004 - 1:1 Water Extract (IC)**

**Blank (9C25004-BLK1)**

Prepared & Analyzed: 03/24/09

Fluoride	<2.00E-1	2.00E-1	ug/g wet
Chloride	<5.00E-1	5.00E-1	"
Nitrite	<1.00E0	1.00E0	"
Nitrate	<1.00E0	1.00E0	"
Sulfate	<1.50E0	1.50E0	"
Phosphate	<1.50E0	1.50E0	"

**LCS (9C25004-BS1)**

Prepared & Analyzed: 03/24/09

Fluoride	2.01E0	2.00E-1	ug/g wet	2.00E0	101	80-120
Chloride	4.98E0	5.00E-1	"	5.00E0	99.7	80-120
Nitrite	1.07E1	1.00E0	"	9.99E0	107	80-120
Nitrate	1.09E1	1.00E0	"	9.99E0	109	80-120
Sulfate	1.50E1	1.50E0	"	1.50E1	100	80-120
Phosphate	1.51E1	1.50E0	"	1.50E1	100	80-120

**Duplicate (9C25004-DUP1)**

Source: 0902002-03

Prepared & Analyzed: 03/24/09

Fluoride	6.99E-1	2.22E-1	ug/g dry	7.05E-1	0.898	35	D
Chloride	2.42E0	5.54E-1	"	2.65E0	8.94	35	D
Nitrite	<1.11E0	1.11E0	"	ND		35	
Nitrate	8.09E0	1.11E0	"	8.70E0	7.32	35	D
Sulfate	4.63E0	1.66E0	"	4.96E0	6.79	35	D
Phosphate	<1.66E0	1.66E0	"	ND		35	

**Post Spike (9C25004-PS1)**

Source: 0902002-02

Prepared & Analyzed: 03/24/09

Fluoride	2.53E0	N/A	ug/mL	7.69E-1	1.87E0	85.5	75-125	D
Chloride	4.07E0	N/A	"	1.92E0	2.31E0	91.2	75-125	D
Nitrite	3.86E0	N/A	"	3.85E0	ND	100	75-125	D
Nitrate	4.31E0	N/A	"	3.85E0	4.78E-1	99.6	75-125	D
Sulfate	1.27E1	N/A	"	5.77E0	7.24E0	95.2	75-125	D
Phosphate	5.69E0	N/A	"	5.77E0	2.42E-1	94.5	75-125	D

**Anions by Ion Chromatography - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 9D14001 - 1:1 Water Extract (IC)**

**Blank (9D14001-BLK1)**

Prepared & Analyzed: 04/14/09

Fluoride	<2.00E-1	2.00E-1	ug/g wet
Chloride	<5.00E-1	5.00E-1	"
Nitrite	<1.00E0	1.00E0	"
Nitrate	<1.00E0	1.00E0	"
Sulfate	<1.50E0	1.50E0	"
Phosphate	<1.50E0	1.50E0	"

**LCS (9D14001-BS1)**

Prepared & Analyzed: 04/14/09

Fluoride	2.02E0	2.00E-1	ug/g wet	2.00E0	101	80-120
Chloride	4.85E0	5.00E-1	"	5.00E0	97.0	80-120
Nitrite	9.89E0	1.00E0	"	1.00E1	98.9	80-120
Nitrate	1.02E1	1.00E0	"	1.00E1	102	80-120
Sulfate	1.50E1	1.50E0	"	1.50E1	100	80-120
Phosphate	1.50E1	1.50E0	"	1.50E1	99.8	80-120

**Duplicate (9D14001-DUP1)**

Source: 0902002-08

Prepared & Analyzed: 04/14/09

Fluoride	3.56E-1	2.03E-1	ug/g dry	3.88E-1	8.52	35	D
Chloride	2.74E1	5.08E-1	"	2.72E1	0.683	35	D
Nitrite	1.46E0	1.02E0	"	1.49E0	1.65	35	D
Nitrate	5.60E1	1.02E0	"	5.54E1	1.08	35	D
Sulfate	5.37E1	1.52E0	"	5.39E1	0.376	35	D
Phosphate	<1.52E0	1.52E0	"	ND		35	

**Post Spike (9D14001-PS1)**

Source: 0902002-05

Prepared & Analyzed: 04/14/09

Fluoride	1.05E0	N/A	ug/mL	7.69E-1	3.21E-1	94.4	75-125	D
Chloride	2.72E0	N/A	"	1.92E0	8.95E-1	94.7	75-125	D
Nitrite	3.81E0	N/A	"	3.85E0	ND	98.9	75-125	D
Nitrate	5.66E0	N/A	"	3.85E0	2.01E0	94.8	75-125	D
Sulfate	1.93E1	N/A	"	5.77E0	1.41E1	90.2	75-125	D
Phosphate	5.75E0	N/A	"	5.77E0	ND	99.7	75-125	D



# Anions by Ion Chromatography - Quality Control

## Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

### Batch 9D21001 - 1:1 Water Extract (IC)

#### Blank (9D21001-BLK1)

Prepared & Analyzed: 04/21/09

Fluoride	<2.00E-1	2.00E-1	ug/g wet
Chloride	<5.00E-1	5.00E-1	"
Nitrite	<1.00E0	1.00E0	"
Nitrate	<1.00E0	1.00E0	"
Sulfate	<1.50E0	1.50E0	"
Phosphate	<1.50E0	1.50E0	"

#### LCS (9D21001-BS1)

Prepared & Analyzed: 04/21/09

Fluoride	1.98E0	2.00E-1	ug/g wet	2.00E0	99.1	80-120
Chloride	5.01E0	5.00E-1	"	5.00E0	100	80-120
Nitrite	1.01E1	1.00E0	"	1.00E1	101	80-120
Nitrate	1.03E1	1.00E0	"	1.00E1	103	80-120
Sulfate	1.52E1	1.50E0	"	1.50E1	101	80-120
Phosphate	1.50E1	1.50E0	"	1.50E1	99.7	80-120

#### Duplicate (9D21001-DUP1)

Source: 0902002-12

Prepared & Analyzed: 04/21/09

Fluoride	5.71E-1	2.02E-1	ug/g dry	5.59E-1	2.15	35	D
Chloride	1.35E1	5.04E-1	"	1.36E1	0.783	35	D
Nitrite	<1.01E0	1.01E0	"	ND		35	
Nitrate	4.04E1	1.01E0	"	3.91E1	3.19	35	D
Sulfate	2.31E1	1.51E0	"	2.23E1	3.26	35	D
Phosphate	<1.51E0	1.51E0	"	ND		35	

#### Post Spike (9D21001-PS1)

Source: 0902002-12

Prepared & Analyzed: 04/21/09

Fluoride	1.35E0	N/A	ug/mL	7.69E-1	5.55E-1	103	75-125	D
Chloride	1.53E1	N/A	"	1.92E0	1.35E1	95.1	75-125	D
Nitrite	3.88E0	N/A	"	3.85E0	ND	101	75-125	D
Nitrate	4.18E1	N/A	"	3.85E0	3.89E1	76.5	75-125	D
Sulfate	2.80E1	N/A	"	5.77E0	2.22E1	100	75-125	D
Phosphate	5.67E0	N/A	"	5.77E0	4.24E-1	90.9	75-125	D

**Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 9E12002 - 1:1 Water Extract (ICP/ICPMS)**

**Blank (9E12002-BLK1)**

Prepared: 03/09/09 Analyzed: 05/13/09

Aluminum	<9.37E-2	9.37E-2	ug/g wet
Boron	<1.37E0	1.37E0	"
Barium	<1.24E-1	1.24E-1	"
Beryllium	<1.31E-2	1.31E-2	"
Bismuth	<3.04E-1	3.04E-1	"
Calcium	<4.52E-1	4.52E-1	"
Cobalt	<1.31E-1	1.31E-1	"
Copper	<8.78E-2	8.78E-2	"
Iron	<1.05E-1	1.05E-1	"
Potassium	<1.29E0	1.29E0	"
Lithium	<7.47E-1	7.47E-1	"
Magnesium	<4.89E-2	4.89E-2	"
Manganese	<6.25E-2	6.25E-2	"
Molybdenum	<1.41E-1	1.41E-1	"
Phosphorus	<6.03E-1	6.03E-1	"
Strontium	<8.02E-2	8.02E-2	"
Vanadium	<1.33E-1	1.33E-1	"
Zinc	<9.77E-2	9.77E-2	"
Sodium	<7.97E-1	7.97E-1	"
Zirconium	<1.29E-1	1.29E-1	"

**LCS (9E12002-BS1)**

Prepared: 03/09/09 Analyzed: 05/13/09

Aluminum	4.80E0	9.37E-2	ug/g wet	5.00E0	96.1	80-120
Boron	5.12E0	1.37E0	"	5.00E0	102	80-120
Barium	5.13E0	1.24E-1	"	5.00E0	103	80-120
Beryllium	5.14E0	1.31E-2	"	5.00E0	103	80-120
Calcium	5.12E0	4.52E-1	"	5.00E0	102	80-120
Cobalt	5.00E0	1.31E-1	"	5.00E0	100	80-120
Copper	5.00E0	8.78E-2	"	5.00E0	99.9	80-120
Iron	5.06E0	1.05E-1	"	5.00E0	101	80-120
Potassium	5.05E1	1.29E0	"	5.00E1	101	80-120
Magnesium	4.88E0	4.89E-2	"	5.00E0	97.5	80-120
Manganese	5.10E0	6.25E-2	"	5.00E0	102	80-120
Molybdenum	5.08E0	1.41E-1	"	5.00E0	102	80-120
Vanadium	4.95E0	1.33E-1	"	5.00E0	99.0	80-120
Zinc	4.95E0	9.77E-2	"	5.00E0	99.0	80-120
Sodium	5.34E0	7.97E-1	"	5.00E0	107	80-120

**Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 9E12002 - 1:1 Water Extract (ICP/ICPMS)**

<b>Duplicate (9E12002-DUP1)</b>		<b>Source: 0902002-01</b>		Prepared: 03/09/09		Analyzed: 05/13/09				
Aluminum	<1.01E-1	1.01E-1	ug/g dry		1.10E-1					35
Boron	<1.48E0	1.48E0	"		ND					35
Barium	<1.34E-1	1.34E-1	"		ND					35
Beryllium	<1.41E-2	1.41E-2	"		ND					35
Bismuth	<3.28E-1	3.28E-1	"		ND					35
Calcium	1.02E1	4.88E-1	"		1.11E1			8.04		35
Cobalt	<1.41E-1	1.41E-1	"		ND					35
Copper	<9.48E-2	9.48E-2	"		ND					35
Iron	<1.13E-1	1.13E-1	"		ND					35
Potassium	4.15E0	1.39E0	"		4.40E0			5.94		35
Lithium	<8.06E-1	8.06E-1	"		ND					35
Magnesium	2.19E0	5.27E-2	"		2.40E0			9.10		35
Manganese	<6.74E-2	6.74E-2	"		ND					35
Molybdenum	<1.52E-1	1.52E-1	"		ND					35
Phosphorus	<6.51E-1	6.51E-1	"		ND					35
Strontium	<8.65E-2	8.65E-2	"		ND					35
Vanadium	<1.44E-1	1.44E-1	"		ND					35
Zinc	<1.05E-1	1.05E-1	"		ND					35
Sodium	1.20E1	8.60E-1	"		1.26E1			5.54		35
Zirconium	<1.39E-1	1.39E-1	"		ND					35

<b>Post Spike (9E12002-PS1)</b>		<b>Source: 0902002-01</b>		Prepared: 05/12/09		Analyzed: 05/13/09				
Aluminum	5.16E2	N/A	ug/L	5.00E2	3.41E1	96.4	75-125			
Boron	5.41E2	N/A	"	5.00E2	1.55E1	105	75-125			
Barium	2.67E2	N/A	"	2.50E2	7.00E0	104	75-125			
Beryllium	2.63E2	N/A	"	2.50E2	1.23E0	105	75-125			
Bismuth	4.66E2	N/A	"	5.00E2	ND	96.1	75-125			
Calcium	3.99E3	N/A	"	5.00E2	3.41E3	116	75-125			
Cobalt	2.52E2	N/A	"	2.50E2	3.57E-1	101	75-125			
Copper	5.19E2	N/A	"	5.00E2	4.83E0	103	75-125			
Iron	5.48E2	N/A	"	5.00E2	3.20E1	103	75-125			
Potassium	2.68E3	N/A	"	1.25E3	1.36E3	106	75-125			
Lithium	5.01E2	N/A	"	5.00E2	4.15E0	99.5	75-125			
Magnesium	1.25E3	N/A	"	5.00E2	7.39E2	103	75-125			
Manganese	2.58E2	N/A	"	2.50E2	ND	105	75-125			
Molybdenum	5.14E2	N/A	"	5.00E2	9.74E0	101	75-125			
Phosphorus	1.29E3	N/A	"	1.25E3	2.45E1	101	75-125			
Strontium	5.47E2	N/A	"	5.00E2	1.81E1	106	75-125			
Vanadium	2.53E2	N/A	"	2.50E2	7.18E0	98.1	75-125			
Zinc	2.72E2	N/A	"	2.50E2	1.64E1	102	75-125			
Sodium	4.53E3	N/A	"	5.00E2	3.90E3	127	75-125			
Zirconium	2.54E2	N/A	"	2.50E2	4.08E-1	101	75-125			

**Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 9E12003 - 1:1 Water Extract (ICP/ICPMS)**

**Blank (9E12003-BLK1)**

Prepared: 03/23/09 Analyzed: 05/13/09

Aluminum	<9.37E-2	9.37E-2	ug/g wet
Boron	<1.37E0	1.37E0	"
Barium	<1.24E-1	1.24E-1	"
Beryllium	<1.31E-2	1.31E-2	"
Bismuth	<3.04E-1	3.04E-1	"
Calcium	<4.52E-1	4.52E-1	"
Cobalt	<1.31E-1	1.31E-1	"
Copper	<8.78E-2	8.78E-2	"
Iron	<1.05E-1	1.05E-1	"
Potassium	<1.29E0	1.29E0	"
Lithium	<7.47E-1	7.47E-1	"
Magnesium	<4.89E-2	4.89E-2	"
Manganese	<6.25E-2	6.25E-2	"
Molybdenum	<1.41E-1	1.41E-1	"
Phosphorus	<6.03E-1	6.03E-1	"
Strontium	<8.02E-2	8.02E-2	"
Vanadium	<1.33E-1	1.33E-1	"
Zinc	<9.77E-2	9.77E-2	"
Sodium	<7.97E-1	7.97E-1	"
Zirconium	<1.29E-1	1.29E-1	"

**LCS (9E12003-BS1)**

Prepared: 03/23/09 Analyzed: 05/13/09

Aluminum	4.80E0	9.37E-2	ug/g wet	4.99E0	96.2	80-120
Boron	5.13E0	1.37E0	"	4.99E0	103	80-120
Barium	5.02E0	1.24E-1	"	4.99E0	101	80-120
Beryllium	5.09E0	1.31E-2	"	4.99E0	102	80-120
Calcium	5.12E0	4.52E-1	"	4.99E0	103	80-120
Cobalt	5.01E0	1.31E-1	"	4.99E0	100	80-120
Copper	4.96E0	8.78E-2	"	4.99E0	99.5	80-120
Iron	5.00E0	1.05E-1	"	4.99E0	100	80-120
Potassium	5.01E1	1.29E0	"	4.99E1	100	80-120
Magnesium	4.83E0	4.89E-2	"	4.99E0	97.0	80-120
Manganese	5.05E0	6.25E-2	"	4.99E0	101	80-120
Molybdenum	5.08E0	1.41E-1	"	4.99E0	102	80-120
Vanadium	4.89E0	1.33E-1	"	4.99E0	98.1	80-120
Zinc	4.94E0	9.77E-2	"	4.99E0	99.1	80-120
Sodium	5.31E0	7.97E-1	"	4.99E0	107	80-120

**Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 9E12003 - 1:1 Water Extract (ICP/ICPMS)**

<b>Duplicate (9E12003-DUP1)</b>		<b>Source: 0902002-03</b>		Prepared: 03/23/09		Analyzed: 05/13/09				
Aluminum	4.65E-1	1.04E-1	ug/g dry		5.90E-1			23.8	35	
Boron	<1.52E0	1.52E0	"		ND				35	
Barium	<1.37E-1	1.37E-1	"		ND				35	
Beryllium	<1.45E-2	1.45E-2	"		ND				35	
Bismuth	<3.37E-1	3.37E-1	"		ND				35	
Calcium	2.33E0	5.01E-1	"		2.39E0			2.34	35	
Cobalt	<1.45E-1	1.45E-1	"		ND				35	
Copper	<9.73E-2	9.73E-2	"		ND				35	
Iron	6.39E-1	1.16E-1	"		7.38E-1			14.5	35	
Potassium	2.08E0	1.43E0	"		2.18E0			4.63	35	
Lithium	<8.28E-1	8.28E-1	"		ND				35	
Magnesium	7.56E-1	5.41E-2	"		8.08E-1			6.68	35	
Manganese	<6.92E-2	6.92E-2	"		ND				35	
Molybdenum	<1.56E-1	1.56E-1	"		ND				35	
Phosphorus	<6.68E-1	6.68E-1	"		ND				35	
Strontium	<8.88E-2	8.88E-2	"		ND				35	
Vanadium	<1.48E-1	1.48E-1	"		ND				35	
Zinc	<1.08E-1	1.08E-1	"		ND				35	
Sodium	1.15E1	8.83E-1	"		1.13E1			1.38	35	
Zirconium	<1.42E-1	1.42E-1	"		ND				35	

<b>Post Spike (9E12003-PS1)</b>		<b>Source: 0902002-03</b>		Prepared: 05/12/09		Analyzed: 05/13/09				
Aluminum	6.67E2	N/A	ug/L	5.00E2	1.77E2	97.9	75-125			
Boron	5.33E2	N/A	"	5.00E2	6.76E0	105	75-125			
Barium	2.68E2	N/A	"	2.50E2	5.73E0	105	75-125			
Beryllium	2.64E2	N/A	"	2.50E2	3.29E-2	105	75-125			
Bismuth	4.81E2	N/A	"	5.00E2	ND	97.9	75-125			
Calcium	1.27E3	N/A	"	5.00E2	7.18E2	110	75-125			
Cobalt	2.50E2	N/A	"	2.50E2	ND	101	75-125			
Copper	5.19E2	N/A	"	5.00E2	1.72E0	103	75-125			
Iron	7.45E2	N/A	"	5.00E2	2.22E2	105	75-125			
Potassium	1.98E3	N/A	"	1.25E3	6.56E2	106	75-125			
Lithium	5.04E2	N/A	"	5.00E2	4.70E0	99.8	75-125			
Magnesium	7.50E2	N/A	"	5.00E2	2.43E2	101	75-125			
Manganese	2.66E2	N/A	"	2.50E2	2.96E-1	106	75-125			
Molybdenum	5.08E2	N/A	"	5.00E2	ND	102	75-125			
Phosphorus	1.27E3	N/A	"	1.25E3	3.22E1	99.3	75-125			
Strontium	5.36E2	N/A	"	5.00E2	4.73E0	106	75-125			
Vanadium	2.60E2	N/A	"	2.50E2	1.41E1	98.2	75-125			
Zinc	2.76E2	N/A	"	2.50E2	1.90E1	103	75-125			
Sodium	4.09E3	N/A	"	5.00E2	3.41E3	136	75-125			
Zirconium	2.55E2	N/A	"	2.50E2	5.64E-1	102	75-125			

**Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 9E12004 - 1:1 Water Extract (ICP/ICPMS)**

**Blank (9E12004-BLK1)**

Prepared: 04/03/09 Analyzed: 05/13/09

Aluminum	<9.37E-2	9.37E-2	ug/g wet
Boron	<1.37E0	1.37E0	"
Barium	<1.24E-1	1.24E-1	"
Beryllium	<1.31E-2	1.31E-2	"
Bismuth	<3.04E-1	3.04E-1	"
Calcium	<4.52E-1	4.52E-1	"
Cobalt	<1.31E-1	1.31E-1	"
Copper	<8.78E-2	8.78E-2	"
Iron	<1.05E-1	1.05E-1	"
Potassium	<1.29E0	1.29E0	"
Lithium	<7.47E-1	7.47E-1	"
Magnesium	<4.89E-2	4.89E-2	"
Manganese	<6.25E-2	6.25E-2	"
Molybdenum	<1.41E-1	1.41E-1	"
Phosphorus	<6.03E-1	6.03E-1	"
Strontium	<8.02E-2	8.02E-2	"
Vanadium	<1.33E-1	1.33E-1	"
Zinc	<9.77E-2	9.77E-2	"
Sodium	<7.97E-1	7.97E-1	"
Zirconium	<1.29E-1	1.29E-1	"

**LCS (9E12004-BS1)**

Prepared: 04/03/09 Analyzed: 05/13/09

Aluminum	4.70E0	9.37E-2	ug/g wet	4.99E0	94.2	80-120
Boron	5.11E0	1.37E0	"	4.99E0	102	80-120
Barium	5.12E0	1.24E-1	"	4.99E0	103	80-120
Beryllium	5.02E0	1.31E-2	"	4.99E0	101	80-120
Calcium	5.11E0	4.52E-1	"	4.99E0	102	80-120
Cobalt	4.94E0	1.31E-1	"	4.99E0	99.0	80-120
Copper	4.96E0	8.78E-2	"	4.99E0	99.3	80-120
Iron	4.98E0	1.05E-1	"	4.99E0	99.9	80-120
Potassium	5.05E1	1.29E0	"	4.99E1	101	80-120
Magnesium	4.82E0	4.89E-2	"	4.99E0	96.7	80-120
Manganese	5.03E0	6.25E-2	"	4.99E0	101	80-120
Molybdenum	5.04E0	1.41E-1	"	4.99E0	101	80-120
Vanadium	4.88E0	1.33E-1	"	4.99E0	97.9	80-120
Zinc	4.87E0	9.77E-2	"	4.99E0	97.7	80-120
Sodium	5.11E0	7.97E-1	"	4.99E0	102	80-120

**Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9E12004 - 1:1 Water Extract (ICP/ICPMS)</b>										
<b>Duplicate (9E12004-DUP1)</b>	<b>Source: 0902002-08</b>			Prepared: 04/03/09		Analyzed: 05/13/09				
Aluminum	<9.52E-2	9.52E-2	ug/g dry		ND				35	
Boron	<1.39E0	1.39E0	"		ND				35	
Barium	<1.26E-1	1.26E-1	"		ND				35	
Beryllium	<1.33E-2	1.33E-2	"		ND				35	
Bismuth	<3.09E-1	3.09E-1	"		ND				35	
Calcium	5.36E1	4.59E-1	"		5.45E1			1.75	35	
Cobalt	<1.33E-1	1.33E-1	"		ND				35	
Copper	<8.92E-2	8.92E-2	"		ND				35	
Iron	<1.07E-1	1.07E-1	"		ND				35	
Potassium	6.34E0	1.31E0	"		6.38E0			0.635	35	
Lithium	<7.59E-1	7.59E-1	"		ND				35	
Magnesium	1.16E1	4.96E-2	"		1.17E1			0.858	35	
Manganese	<6.34E-2	6.34E-2	"		ND				35	
Molybdenum	<1.43E-1	1.43E-1	"		ND				35	
Phosphorus	1.47E1	6.12E-1	"		1.47E1			0.264	35	
Strontium	2.49E-1	8.14E-2	"		2.54E-1			1.84	35	
Vanadium	<1.35E-1	1.35E-1	"		ND				35	
Zinc	<9.93E-2	9.93E-2	"		ND				35	
Sodium	2.81E1	8.10E-1	"		2.84E1			1.09	35	
Zirconium	<1.31E-1	1.31E-1	"		ND				35	
<b>Post Spike (9E12004-PS1)</b>	<b>Source: 0902002-08</b>			Prepared: 05/12/09		Analyzed: 05/13/09				
Aluminum	5.14E2	N/A	ug/L	5.00E2	1.92E1	99	75-125			
Boron	5.46E2	N/A	"	5.00E2	5.71E0	108	75-125			
Barium	2.97E2	N/A	"	2.50E2	2.84E1	107	75-125			
Beryllium	2.66E2	N/A	"	2.50E2	ND	106	75-125			
Bismuth	5.16E2	N/A	"	5.00E2	1.33E1	101	75-125			
Calcium	1.87E4	N/A	"	5.00E2	1.82E4	105	75-125			
Cobalt	2.51E2	N/A	"	2.50E2	ND	101	75-125			
Copper	5.30E2	N/A	"	5.00E2	1.61E0	106	75-125			
Iron	5.32E2	N/A	"	5.00E2	2.63E0	106	75-125			
Potassium	3.53E3	N/A	"	1.25E3	2.13E3	112	75-125			
Lithium	5.14E2	N/A	"	5.00E2	5.78E0	102	75-125			
Magnesium	4.51E3	N/A	"	5.00E2	3.90E3	123	75-125			
Manganese	2.59E2	N/A	"	2.50E2	ND	106	75-125			
Molybdenum	5.34E2	N/A	"	5.00E2	1.71E1	103	75-125			
Phosphorus	6.31E3	N/A	"	1.25E3	4.89E3	114	75-125			
Strontium	6.29E2	N/A	"	5.00E2	8.46E1	109	75-125			
Vanadium	2.50E2	N/A	"	2.50E2	ND	101	75-125			
Zinc	2.76E2	N/A	"	2.50E2	2.02E1	102	75-125			
Sodium	1.01E4	N/A	"	5.00E2	9.48E3	124	75-125			
Zirconium	2.70E2	N/A	"	2.50E2	2.07E0	107	75-125			

**Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 9E12005 - 1:1 Water Extract (ICP/ICPMS)**

**Blank (9E12005-BLK1)**

Prepared: 04/20/09 Analyzed: 05/13/09

Aluminum	<9.37E-2	9.37E-2	ug/g wet
Boron	<1.37E0	1.37E0	"
Barium	<1.24E-1	1.24E-1	"
Beryllium	<1.31E-2	1.31E-2	"
Bismuth	<3.04E-1	3.04E-1	"
Calcium	<4.52E-1	4.52E-1	"
Cobalt	<1.31E-1	1.31E-1	"
Copper	<8.78E-2	8.78E-2	"
Iron	<1.05E-1	1.05E-1	"
Potassium	<1.29E0	1.29E0	"
Lithium	<7.47E-1	7.47E-1	"
Magnesium	<4.89E-2	4.89E-2	"
Manganese	<6.25E-2	6.25E-2	"
Molybdenum	<1.41E-1	1.41E-1	"
Phosphorus	<6.03E-1	6.03E-1	"
Strontium	<8.02E-2	8.02E-2	"
Vanadium	<1.33E-1	1.33E-1	"
Zinc	1.30E-1	9.77E-2	"
Sodium	<7.97E-1	7.97E-1	"
Zirconium	<1.29E-1	1.29E-1	"

**LCS (9E12005-BS1)**

Prepared: 04/20/09 Analyzed: 05/13/09

Aluminum	4.77E0	9.37E-2	ug/g wet	5.00E0	95.3	80-120
Boron	5.16E0	1.37E0	"	5.00E0	103	80-120
Barium	5.09E0	1.24E-1	"	5.00E0	102	80-120
Beryllium	5.10E0	1.31E-2	"	5.00E0	102	80-120
Calcium	5.04E0	4.52E-1	"	5.00E0	101	80-120
Cobalt	5.01E0	1.31E-1	"	5.00E0	100	80-120
Copper	4.98E0	8.78E-2	"	5.00E0	99.6	80-120
Iron	5.00E0	1.05E-1	"	5.00E0	100	80-120
Potassium	4.99E1	1.29E0	"	5.00E1	99.9	80-120
Magnesium	4.83E0	4.89E-2	"	5.00E0	96.7	80-120
Manganese	5.05E0	6.25E-2	"	5.00E0	101	80-120
Molybdenum	5.10E0	1.41E-1	"	5.00E0	102	80-120
Vanadium	4.91E0	1.33E-1	"	5.00E0	98.1	80-120
Zinc	4.95E0	9.77E-2	"	5.00E0	98.9	80-120
Sodium	5.00E0	7.97E-1	"	5.00E0	99.9	80-120



**Total Metals by PNNL-AGG-ICP-AES/Water Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 9E12005 - 1:1 Water Extract (ICP/ICPMS)**

<b>Duplicate (9E12005-DUP1)</b>		<b>Source: 0902002-12</b>		Prepared: 04/20/09		Analyzed: 05/13/09				
Aluminum	3.39E-1	9.45E-2	ug/g dry		3.10E-1			9.17	35	
Boron	<1.38E0	1.38E0	"		ND				35	
Barium	<1.25E-1	1.25E-1	"		ND				35	
Beryllium	<1.32E-2	1.32E-2	"		ND				35	
Bismuth	<3.07E-1	3.07E-1	"		ND				35	
Calcium	2.01E1	4.56E-1	"		1.98E1			1.69	35	
Cobalt	<1.32E-1	1.32E-1	"		ND				35	
Copper	<8.86E-2	8.86E-2	"		ND				35	
Iron	1.26E-1	1.06E-1	"		ND				35	
Potassium	5.71E0	1.30E0	"		5.99E0			4.85	35	
Lithium	<7.53E-1	7.53E-1	"		ND				35	
Magnesium	6.22E0	4.93E-2	"		5.99E0			3.75	35	
Manganese	<6.30E-2	6.30E-2	"		ND				35	
Molybdenum	<1.42E-1	1.42E-1	"		ND				35	
Phosphorus	<6.08E-1	6.08E-1	"		ND				35	
Strontium	9.34E-2	8.08E-2	"		9.00E-2			3.67	35	
Vanadium	<1.34E-1	1.34E-1	"		ND				35	
Zinc	<9.86E-2	9.86E-2	"		ND				35	
Sodium	1.61E1	8.04E-1	"		1.67E1			3.56	35	
Zirconium	<1.30E-1	1.30E-1	"		ND				35	

<b>Post Spike (9E12005-PS1)</b>		<b>Source: 0902002-12</b>		Prepared: 05/12/09		Analyzed: 05/13/09				
Aluminum	5.97E2	N/A	ug/L	5.00E2	1.03E2	98.8	75-125			
Boron	5.70E2	N/A	"	5.00E2	6.70E0	113	75-125			
Barium	2.81E2	N/A	"	2.50E2	1.52E1	106	75-125			
Beryllium	2.70E2	N/A	"	2.50E2	ND	108	75-125			
Bismuth	5.14E2	N/A	"	5.00E2	ND	104	75-125			
Calcium	7.16E3	N/A	"	5.00E2	6.56E3	120	75-125			
Cobalt	2.56E2	N/A	"	2.50E2	ND	103	75-125			
Copper	5.35E2	N/A	"	5.00E2	4.93E0	106	75-125			
Iron	5.60E2	N/A	"	5.00E2	3.14E1	106	75-125			
Potassium	3.35E3	N/A	"	1.25E3	1.98E3	109	75-125			
Lithium	5.14E2	N/A	"	5.00E2	4.48E0	102	75-125			
Magnesium	2.56E3	N/A	"	5.00E2	1.98E3	116	75-125			
Manganese	2.62E2	N/A	"	2.50E2	ND	107	75-125			
Molybdenum	5.37E2	N/A	"	5.00E2	1.57E1	104	75-125			
Phosphorus	1.36E3	N/A	"	1.25E3	6.32E1	104	75-125			
Strontium	5.68E2	N/A	"	5.00E2	2.98E1	108	75-125			
Vanadium	2.59E2	N/A	"	2.50E2	6.68E0	101	75-125			
Zinc	2.86E2	N/A	"	2.50E2	1.83E1	107	75-125			
Sodium	6.19E3	N/A	"	5.00E2	5.53E3	132	75-125			
Zirconium	2.59E2	N/A	"	2.50E2	4.09E-1	103	75-125			

**Total Metals by PNNL-AGG-ICP-AES/Acid Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 9E12001 - ASTM D 5198 (ICP/ICPMS)**

**Blank (9E12001-BLK1)**

Prepared: 04/24/09 Analyzed: 05/12/09

Aluminum	<6.76E0	6.76E0	ug/g wet
Boron	<2.90E1	2.90E1	"
Barium	<4.12E-1	4.12E-1	"
Beryllium	<2.31E-1	2.31E-1	"
Bismuth	<2.85E0	2.85E0	"
Calcium	<7.02E0	7.02E0	"
Cobalt	<1.44E0	1.44E0	"
Copper	<1.93E0	1.93E0	"
Iron	<1.82E0	1.82E0	"
Potassium	<2.59E1	2.59E1	"
Lithium	<6.28E0	6.28E0	"
Magnesium	<1.92E0	1.92E0	"
Manganese	<6.04E-1	6.04E-1	"
Molybdenum	<2.29E0	2.29E0	"
Phosphorus	<8.93E0	8.93E0	"
Strontium	<4.40E-1	4.40E-1	"
Vanadium	<1.21E0	1.21E0	"
Zinc	<1.10E0	1.10E0	"
Sodium	<1.90E1	1.90E1	"
Zirconium	<8.10E-1	8.10E-1	"

**LCS (9E12001-BS1)**

Prepared: 04/24/09 Analyzed: 05/12/09

Aluminum	5.60E0	6.76E-1	ug/g wet	5.94E0	94.4	80-120
Boron	5.72E0	2.90E0	"	5.94E0	96.4	80-120
Barium	5.81E0	4.12E-2	"	5.94E0	97.8	80-120
Beryllium	5.85E0	2.31E-2	"	5.94E0	98.5	80-120
Calcium	6.04E0	7.02E-1	"	5.94E0	102	80-120
Cobalt	5.99E0	1.44E-1	"	5.94E0	101	80-120
Copper	5.96E0	1.93E-1	"	5.94E0	100	80-120
Iron	6.11E0	1.82E-1	"	5.94E0	103	80-120
Potassium	5.85E1	2.59E0	"	5.94E1	98.5	80-120
Magnesium	5.50E0	1.92E-1	"	5.94E0	92.7	80-120
Manganese	5.95E0	6.04E-2	"	5.94E0	100	80-120
Molybdenum	6.03E0	2.29E-1	"	5.94E0	102	80-120
Vanadium	5.86E0	1.21E-1	"	5.94E0	98.6	80-120
Zinc	5.69E0	1.10E-1	"	5.94E0	95.9	80-120
Sodium	6.59E0	1.90E0	"	5.94E0	111	80-120

**Total Metals by PNNL-AGG-ICP-AES/Acid Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 9E12001 - ASTM D 5198 (ICP/ICPMS)**

<b>Duplicate (9E12001-DUP1)</b>		<b>Source: 0902002-08</b>		Prepared: 04/24/09		Analyzed: 05/12/09				
Aluminum	1.24E4	2.62E1	ug/g dry		1.22E4			2.21	35	
Boron	<1.12E2	1.12E2	"		ND				35	
Barium	1.10E2	1.60E0	"		1.07E2			2.66	35	
Beryllium	<8.95E-1	8.95E-1	"		ND				35	
Bismuth	1.13E1	1.10E1	"		1.14E1			0.333	35	
Calcium	1.17E4	2.72E1	"		1.15E4			1.99	35	
Cobalt	9.13E0	5.60E0	"		9.12E0			0.0887	35	
Copper	1.43E1	7.49E0	"		1.43E1			0.0755	35	
Iron	1.96E4	7.04E0	"		1.94E4			0.723	35	
Potassium	2.24E3	1.00E2	"		2.23E3			0.286	35	
Lithium	<2.43E1	2.43E1	"		ND				35	
Magnesium	7.28E3	7.46E0	"		7.24E3			0.546	35	
Manganese	3.94E2	2.34E0	"		3.98E2			0.994	35	
Molybdenum	<8.89E0	8.89E0	"		ND				35	
Phosphorus	6.39E2	3.46E1	"		6.44E2			0.757	35	
Strontium	3.70E1	1.71E0	"		3.62E1			2.16	35	
Vanadium	2.06E1	4.69E0	"		2.10E1			1.69	35	
Zinc	4.66E1	4.27E0	"		4.60E1			1.22	35	
Sodium	2.26E2	7.38E1	"		2.21E2			1.92	35	
Zirconium	7.99E0	3.14E0	"		8.13E0			1.72	35	

<b>Post Spike (9E12001-PS1)</b>		<b>Source: 0902002-08</b>		Prepared & Analyzed: 05/12/09						
Aluminum	6.41E4	N/A	ug/L	5.00E2	6.21E4	407	75-125			
Boron	5.09E2	N/A	"	5.00E2	ND	104	75-125			
Barium	8.08E2	N/A	"	2.50E2	5.48E2	104	75-125			
Beryllium	2.58E2	N/A	"	2.50E2	1.82E0	102	75-125			
Bismuth	5.77E2	N/A	"	5.00E2	5.80E1	104	75-125			
Calcium	6.05E4	N/A	"	5.00E2	5.86E4	386	75-125			
Cobalt	2.92E2	N/A	"	2.50E2	4.66E1	98.1	75-125			
Copper	5.89E2	N/A	"	5.00E2	7.30E1	103	75-125			
Iron	1.02E5	N/A	"	5.00E2	9.92E4	538	75-125			
Potassium	1.30E4	N/A	"	1.25E3	1.14E4	125	75-125			
Lithium	5.78E2	N/A	"	5.00E2	8.02E1	99.5	75-125			
Magnesium	3.75E4	N/A	"	5.00E2	3.69E4	105	75-125			
Manganese	2.35E3	N/A	"	2.50E2	2.03E3	126	75-125			
Molybdenum	5.40E2	N/A	"	5.00E2	3.56E1	101	75-125			
Phosphorus	4.65E3	N/A	"	1.25E3	3.29E3	109	75-125			
Strontium	6.99E2	N/A	"	5.00E2	1.85E2	103	75-125			
Vanadium	3.59E2	N/A	"	2.50E2	1.07E2	101	75-125			
Zinc	4.81E2	N/A	"	2.50E2	2.35E2	98.3	75-125			
Sodium	1.68E3	N/A	"	5.00E2	1.13E3	111	75-125			
Zirconium	2.91E2	N/A	"	2.50E2	4.15E1	99.8	75-125			

**RCRA Metals By PNNL-AGG-415/Water Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9E07001 - 1:1 Water Extract (ICP/ICPMS)</b>										
<b>Blank (9E07001-BLK1)</b>				Prepared & Analyzed: 05/07/09						
Chromium	<3.44E-3	3.44E-3	ug/g wet							
Arsenic	<2.84E-3	2.84E-3	"							
Selenium	<7.92E-3	7.92E-3	"							
Silver	<3.13E-3	3.13E-3	"							
Cadmium	<5.73E-4	5.73E-4	"							
Antimony	<6.58E-4	6.58E-4	"							
Lead	<1.16E-3	1.16E-3	"							
<b>LCS (9E07001-BS1)</b>				Prepared & Analyzed: 05/07/09						
Chromium	5.16E0	3.44E-1	ug/g wet	5.00E0		103	80-120			
Arsenic	5.42E0	2.84E-1	"	5.00E0		108	80-120			
Selenium	5.06E0	7.92E-1	"	5.00E0		101	80-120			
Silver	4.12E0	3.13E-1	"	5.00E0		82.4	80-120			
Cadmium	5.25E0	5.73E-2	"	5.00E0		105	80-120			
Lead	4.75E0	1.16E-1	"	5.00E0		95.0	80-120			
<b>Duplicate (9E07001-DUP1)</b>				<b>Source: 0902002-01</b>		Prepared & Analyzed: 05/07/09				
Chromium	<3.72E-3	3.72E-3	ug/g dry		ND					35
Arsenic	1.41E-2	3.06E-3	"		1.32E-2			7.03		35
Selenium	<8.54E-3	8.54E-3	"		ND					35
Silver	<3.37E-3	3.37E-3	"		ND					35
Cadmium	<6.18E-4	6.18E-4	"		ND					35
Antimony	<7.11E-4	7.11E-4	"		ND					35
Lead	<1.25E-3	1.25E-3	"		ND					35
<b>Post Spike (9E07001-PS1)</b>				<b>Source: 0902002-01</b>		Prepared & Analyzed: 05/07/09				
Chromium	4.80E0	N/A	ug/L	5.00E0	1.49E-3	95.9	75-125			
Arsenic	7.73E0	N/A	"	5.00E0	2.44E0	106	75-125			
Selenium	5.35E0	N/A	"	5.00E0	1.76E-1	103	75-125			
Silver	5.02E0	N/A	"	5.00E0	ND	101	75-125			
Cadmium	5.22E0	N/A	"	5.00E0	ND	107	75-125			
Antimony	5.38E0	N/A	"	5.00E0	3.18E-2	107	75-125			
Lead	5.02E0	N/A	"	5.00E0	6.30E-2	99.1	75-125			

**RCRA Metals By PNNL-AGG-415/Water Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9E07002 - 1:1 Water Extract (ICP/ICPMS)</b>										
<b>Blank (9E07002-BLK1)</b>				Prepared & Analyzed: 05/07/09						
Chromium	<3.44E-3	3.44E-3	ug/g wet							
Arsenic	<2.84E-3	2.84E-3	"							
Selenium	<7.92E-3	7.92E-3	"							
Silver	<3.13E-3	3.13E-3	"							
Cadmium	<5.73E-4	5.73E-4	"							
Antimony	<6.58E-4	6.58E-4	"							
Lead	<1.16E-3	1.16E-3	"							
<b>LCS (9E07002-BS1)</b>				Prepared & Analyzed: 05/07/09						
Chromium	5.13E0	3.44E-1	ug/g wet	4.99E0		103	80-120			
Arsenic	5.16E0	2.84E-1	"	4.99E0		104	80-120			
Selenium	5.00E0	7.92E-1	"	4.99E0		100	80-120			
Silver	4.94E0	3.13E-1	"	4.99E0		99.0	80-120			
Cadmium	5.29E0	5.73E-2	"	4.99E0		106	80-120			
Lead	4.72E0	1.16E-1	"	4.99E0		94.7	80-120			
<b>Duplicate (9E07002-DUP1)</b>				<b>Source: 0902002-03</b>		Prepared & Analyzed: 05/07/09				
Chromium	<3.82E-3	3.82E-3	ug/g dry		ND					35
Arsenic	3.42E-3	3.14E-3	"		ND					35
Selenium	<8.77E-3	8.77E-3	"		ND					35
Silver	<3.46E-3	3.46E-3	"		ND					35
Cadmium	<6.35E-4	6.35E-4	"		ND					35
Antimony	2.32E-3	7.30E-4	"		1.47E-3			44.5		35
Lead	<1.29E-3	1.29E-3	"		ND					35
<b>Post Spike (9E07002-PS1)</b>				<b>Source: 0902002-03</b>		Prepared & Analyzed: 05/07/09				
Chromium	4.92E0	N/A	ug/L	5.00E0	1.21E-1	96.1	75-125			
Arsenic	5.89E0	N/A	"	5.00E0	5.61E-1	107	75-125			
Selenium	5.51E0	N/A	"	5.00E0	2.01E-1	106	75-125			
Silver	5.00E0	N/A	"	5.00E0	ND	100	75-125			
Cadmium	5.24E0	N/A	"	5.00E0	ND	107	75-125			
Antimony	5.61E0	N/A	"	5.00E0	2.66E-1	107	75-125			
Lead	5.04E0	N/A	"	5.00E0	6.95E-2	99.4	75-125			

**RCRA Metals By PNNL-AGG-415/Water Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9E07003 - 1:1 Water Extract (ICP/ICPMS)</b>										
<b>Blank (9E07003-BLK1)</b>				Prepared & Analyzed: 05/07/09						
Chromium	<3.44E-3	3.44E-3	ug/g wet							
Arsenic	<2.84E-3	2.84E-3	"							
Selenium	<7.92E-3	7.92E-3	"							
Silver	<3.13E-3	3.13E-3	"							
Cadmium	<5.73E-4	5.73E-4	"							
Antimony	<6.58E-4	6.58E-4	"							
Lead	<1.16E-3	1.16E-3	"							
<b>LCS (9E07003-BS1)</b>				Prepared & Analyzed: 05/07/09						
Chromium	5.18E0	3.44E-1	ug/g wet	4.99E0		104	80-120			
Arsenic	5.28E0	2.84E-1	"	4.99E0		106	80-120			
Selenium	5.08E0	7.92E-1	"	4.99E0		102	80-120			
Silver	4.91E0	3.13E-1	"	4.99E0		98.5	80-120			
Cadmium	5.29E0	5.73E-2	"	4.99E0		106	80-120			
Lead	4.78E0	1.16E-1	"	4.99E0		95.8	80-120			
<b>Duplicate (9E07003-DUP1)</b>				<b>Source: 0902002-08</b>		Prepared & Analyzed: 05/07/09				
Chromium	1.28E-1	3.50E-3	ug/g dry		1.27E-1			0.758	35	
Arsenic	7.89E-3	2.88E-3	"		7.51E-3			4.91	35	
Selenium	<8.04E-3	8.04E-3	"		ND				35	
Silver	<3.18E-3	3.18E-3	"		ND				35	
Cadmium	<5.82E-4	5.82E-4	"		ND				35	
Antimony	<6.69E-4	6.69E-4	"		ND				35	
Lead	<1.18E-3	1.18E-3	"		ND				35	
<b>Post Spike (9E07003-PS1)</b>				<b>Source: 0902002-08</b>		Prepared & Analyzed: 05/07/09				
Chromium	2.91E1	N/A	ug/L	5.00E0	2.53E1	75.5	75-125			
Arsenic	7.01E0	N/A	"	5.00E0	1.50E0	110	75-125			
Selenium	5.75E0	N/A	"	5.00E0	2.14E-1	111	75-125			
Silver	4.95E0	N/A	"	5.00E0	ND	99.3	75-125			
Cadmium	5.17E0	N/A	"	5.00E0	ND	106	75-125			
Antimony	5.31E0	N/A	"	5.00E0	1.50E-2	106	75-125			
Lead	5.06E0	N/A	"	5.00E0	3.85E-2	100	75-125			

**RCRA Metals By PNNL-AGG-415/Water Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 9E07004 - 1:1 Water Extract (ICP/ICPMS)</b>										
<b>Blank (9E07004-BLK1)</b>				Prepared & Analyzed: 05/07/09						
Chromium	<3.44E-3	3.44E-3	ug/g wet							
Arsenic	<2.84E-3	2.84E-3	"							
Selenium	<7.92E-3	7.92E-3	"							
Silver	<3.13E-3	3.13E-3	"							
Cadmium	<5.73E-4	5.73E-4	"							
Antimony	1.40E-2	6.58E-4	"							
Lead	<1.16E-3	1.16E-3	"							
<b>LCS (9E07004-BS1)</b>				Prepared & Analyzed: 05/07/09						
Chromium	5.08E0	3.44E-1	ug/g wet	5.00E0		102	80-120			
Arsenic	5.24E0	2.84E-1	"	5.00E0		105	80-120			
Selenium	5.05E0	7.92E-1	"	5.00E0		101	80-120			
Silver	4.97E0	3.13E-1	"	5.00E0		99.3	80-120			
Cadmium	5.34E0	5.73E-2	"	5.00E0		107	80-120			
Lead	4.82E0	1.16E-1	"	5.00E0		96.5	80-120			
<b>Duplicate (9E07004-DUP1)</b>				<b>Source: 0902002-12</b>		Prepared & Analyzed: 05/07/09				
Chromium	<3.47E-3	3.47E-3	ug/g dry		ND				35	
Arsenic	<2.86E-3	2.86E-3	"		ND				35	
Selenium	<7.98E-3	7.98E-3	"		ND				35	
Silver	<3.15E-3	3.15E-3	"		ND				35	
Cadmium	<5.78E-4	5.78E-4	"		ND				35	
Antimony	<6.64E-4	6.64E-4	"		ND				35	
Lead	<1.17E-3	1.17E-3	"		ND				35	
<b>Post Spike (9E07004-PS1)</b>				<b>Source: 0902002-12</b>		Prepared & Analyzed: 05/07/09				
Chromium	4.97E0	N/A	ug/L	5.00E0	2.66E-1	94	75-125			
Arsenic	6.05E0	N/A	"	5.00E0	3.42E-1	114	75-125			
Selenium	5.78E0	N/A	"	5.00E0	1.43E-1	113	75-125			
Silver	5.00E0	N/A	"	5.00E0	ND	100	75-125			
Cadmium	5.24E0	N/A	"	5.00E0	ND	107	75-125			
Antimony	5.34E0	N/A	"	5.00E0	1.88E-2	106	75-125			
Lead	5.11E0	N/A	"	5.00E0	5.74E-2	101	75-125			

**RCRA Metals By PNNL-AGG-415/Acid Extract - Quality Control**  
**Environmental Science Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 9E07006 - ASTM D 5198 (ICP/ICPMS)**

**Blank (9E07006-BLK1)**

Prepared: 05/07/09 Analyzed: 05/08/09

Chromium	<1.88E-1	1.88E-1	ug/g wet
Arsenic	<8.20E-2	8.20E-2	"
Selenium	<1.59E-1	1.59E-1	"
Silver	<5.13E-3	5.13E-3	"
Cadmium	<1.35E-2	1.35E-2	"
Antimony	<5.26E-2	5.26E-2	"
Lead	<5.13E-2	5.13E-2	"

**LCS (9E07006-BS1)**

Prepared: 05/07/09 Analyzed: 05/08/09

Chromium	5.79E0	9.42E-1	ug/g wet	5.94E0	97.5	80-120
Arsenic	5.74E0	4.10E-1	"	5.94E0	96.7	80-120
Selenium	5.64E0	7.93E-1	"	5.94E0	95.1	80-120
Silver	5.56E0	2.56E-2	"	5.94E0	93.7	80-120
Cadmium	5.72E0	6.77E-2	"	5.94E0	96.4	80-120
Antimony	6.81E0	2.63E-1	"	5.94E0	115	80-120
Lead	5.48E0	2.57E-1	"	5.94E0	92.2	80-120

**Duplicate (9E07006-DUP1)**

Source: 0902002-08

Prepared: 05/07/09 Analyzed: 05/11/09

Chromium	1.77E1	7.30E-1	ug/g dry	1.78E1	0.369	35
Arsenic	5.54E0	3.18E-1	"	5.50E0	0.647	35
Selenium	<6.14E-1	6.14E-1	"	ND		35
Silver	6.31E-2	1.99E-2	"	6.32E-2	0.166	35
Cadmium	6.39E-2	5.25E-2	"	6.69E-2	4.58	35
Antimony	<2.04E-1	2.04E-1	"	ND		35
Lead	6.04E0	1.99E-1	"	6.02E0	0.330	35

**Post Spike (9E07006-PS1)**

Source: 0902002-08

Prepared: 05/07/09 Analyzed: 05/11/09

Chromium	4.94E1	N/A	ug/L	5.00E0	4.55E1	79.3	75-125
Arsenic	1.86E1	N/A	"	5.00E0	1.40E1	90.8	75-125
Selenium	3.50E0	N/A	"	5.00E0	ND	79.7	75-125
Silver	4.98E0	N/A	"	5.00E0	1.61E-1	96.4	75-125
Cadmium	4.92E0	N/A	"	5.00E0	1.71E-1	94.9	75-125
Antimony	5.17E0	N/A	"	5.00E0	1.87E-1	99.6	75-125
Lead	1.86E1	N/A	"	5.00E0	1.54E1	65.4	75-125



CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-001		PAGE 1 OF 2	
COLLECTOR <i>McIntyre / Crow / Rust</i>		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N	
SAMPLING LOCATION C7017; EW1-001		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. <i>QUB 2/12/09</i> <i>SOFT-I N/A</i>		FIELD LOGBOOK NO. <i>PG 2</i> <i>HNF-N-585-9</i>		ACTUAL SAMPLE DEPTH <i>95'</i>		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A			
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		PRESERVATION		Cool~4C/Cool~4C	Cool~4C/Cool~4C	None			
		TYPE OF CONTAINER		G/P	aG	Moisture Resistant Cont			
		NO. OF CONTAINER(S)		1	1	1			
		VOLUME		500mL	250mL	200g			
		SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS <i>029038</i>	SEE ITEM (2) IN SPECIAL INSTRUCTIONS <i>029336</i>	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME						
B1YD07	SOIL	2-9-09	1257	✓	✓	✓			
	<i>Lot #</i>			<i>029038</i>	<i>029336</i>				
CHAIN OF POSSESSION				SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS			
RELINQUISHED BY/REMOVED FROM				DATE/TIME		RECEIVED BY/STORED IN			
<i>AR McIntyre / QUB</i>				<i>2-9-09 1400</i>		<i>RF Stecke</i>			
RELINQUISHED BY/REMOVED FROM				DATE/TIME		RECEIVED BY/STORED IN			
<i>RF Stecke</i>				<i>2-9-09 1500</i>		<i>AR McIntyre / QUB</i>			
RELINQUISHED BY/REMOVED FROM				DATE/TIME		RECEIVED BY/STORED IN			
<i>AR McIntyre / QUB</i>				<i>2-9-09 1515</i>		<i>MO 415 SSU #2</i>			
RELINQUISHED BY/REMOVED FROM				DATE/TIME		RECEIVED BY/STORED IN			
<i>MO 415 SSU #2</i>				<i>2/12/09 13:00</i>		<i>Kevin Miller</i>			
RELINQUISHED BY/REMOVED FROM				DATE/TIME		RECEIVED BY/STORED IN			
<i>Kevin Miller</i>				<i>2/12/09 13:50</i>		<i>Kevin Miller</i>			
RELINQUISHED BY/REMOVED FROM				DATE/TIME		RECEIVED BY/STORED IN			
LABORATORY SECTION		RECEIVED BY		TITLE		DATE/TIME			
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD		DISPOSED BY		DATE/TIME			

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F09-012-001	PAGE 2 OF 2
COLLECTOR <i>McIntyre, Coz, Rost</i>	COMPANY CONTACT WIDRIG, DL	TELEPHONE NO. 376-2858	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C7017; EW1-001	PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode		SAF NO. F09-012	AIR QUALITY <input type="checkbox"/>	45 Days / 45 Days
ICE CHEST NO. <i>DWIS 2/2/98</i> <i>SOFT 1</i> <i>N/A</i>	FIELD LOGBOOK NO. <i>Pg 2</i> <i>HNF-N-585-9</i>	ACTUAL SAMPLE DEPTH <i>95'</i>	COA 300194ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

**SPECIAL INSTRUCTIONS**

\*\* The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

(1)6010M\_ICP\_ASTM\_AE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_ICP\_ASTM\_AE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6010M\_METALS\_ICP\_WE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_METALS\_ICP\_WE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6020M\_ICPMS\_ASTM\_AE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_ICPMS\_ASTM\_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M\_METALS\_ICPMS\_WE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_METALS\_ICPMS\_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} IC Anions - 9056 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

(2)TOC - ASTM E1915A {Total organic carbon} GAMMA\_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

(3)Moisture Content - D2216 {Percent moisture (wet sample)}



CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST					F09-012-002		PAGE 1 OF 2		
COLLECTOR <i>Bates</i>		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N		DATA TURNAROUND 45 Days / 45 Days	
SAMPLING LOCATION C7017; EW1-010		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		AIR QUALITY <input type="checkbox"/>			
ICE CHEST NO. <i>N/A</i>		FIELD LOGBOOK NO. <i>HUR-585-9</i>		ACTUAL SAMPLE DEPTH <i>218' - 221'</i>		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE			
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A					
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION		Cool~4C/Cool~4C	Cool~4C/Cool~4C	None				
			TYPE OF CONTAINER		G/P	aG	Moisture Resistant Cont				
			NO. OF CONTAINER(S)		1	1	1				
			VOLUME		500mL	250mL	200g				
	SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS <i>0291038</i>	SEE ITEM (2) IN SPECIAL INSTRUCTIONS <i>0291336</i>	SEE ITEM (3) IN SPECIAL INSTRUCTIONS				
SAMPLE NO.		MATRIX*		SAMPLE DATE	SAMPLE TIME						
B1YD08		SOIL		<i>3/3/09</i>	<i>10:00</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
CHAIN OF POSSESSION						SIGN/ PRINT NAMES					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME		SPECIAL INSTRUCTIONS SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS			
<i>Brotherhood</i>		<i>3/3/09 10:45</i>		<i>MO 913-SSUR-2</i>		<i>3/3/09 10:45</i>					
<i>MO 913 SSUR-2</i>		<i>3-12-09 0927</i>		<i>Ed Kauer/Edmund</i>		<i>3-12-09 0927</i>					
<i>Ed Kauer/Edmund</i>		<i>3-12-09 10:30</i>		<i>C. J. Jovan</i>		<i>3/12/2009 1030</i>					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME					
LABORATORY SECTION		RECEIVED BY						TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD						DISPOSED BY		DATE/TIME	

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F09-012-002	PAGE 2 OF 2
COLLECTOR	COMPANY CONTACT WIDRIG, DL	TELEPHONE NO. 376-2858	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C7017; EW1-010	PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode		SAF NO. F09-012	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 300194ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

**SPECIAL INSTRUCTIONS**

\*\* The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

(1)6010M\_ICP\_ASTM\_AE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_ICP\_ASTM\_AE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6010M\_METALS\_ICP\_WE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_METALS\_ICP\_WE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6020M\_ICPMS\_ASTM\_AE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_ICPMS\_ASTM\_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M\_METALS\_ICPMS\_WE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_METALS\_ICPMS\_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} IC Anions - 9056 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

(2)TOC - ASTM E1915A {Total organic carbon} GAMMA\_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

(3)Moisture Content - D2216 {Percent moisture (wet sample)}





CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F09-012-003	PAGE 2 OF 2
COLLECTOR	COMPANY CONTACT WIDRIG, DL	TELEPHONE NO. 376-2858	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	<b>DATA TURNAROUND</b> 45 Days / 45 Days
SAMPLING LOCATION C7017; EW1-011	PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode		SAF NO. F09-012	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 300194ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

**SPECIAL INSTRUCTIONS**

\*\* The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

(1)6010M\_ICP\_ASTM\_AE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_ICP\_ASTM\_AE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6010M\_METALS\_ICP\_WE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_METALS\_ICP\_WE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6020M\_ICPMS\_ASTM\_AE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_ICPMS\_ASTM\_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M\_METALS\_ICPMS\_WE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_METALS\_ICPMS\_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} IC Anions - 9056 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

(2)TOC - ASTM E1915A {Total organic carbon} GAMMA\_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

(3)Moisture Content - D2216 {Percent moisture (wet sample)}





CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-037		PAGE 1 OF 2	
COLLECTOR <i>C. H. H. H.</i>		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N	
SAMPLING LOCATION C7021; EW3-001		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO.		FIELD LOGBOOK NO. <i>HNF 10-585-9 pgs</i>		ACTUAL SAMPLE DEPTH <i>95'</i>		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A			
<b>MATRIX*</b> A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		<b>POSSIBLE SAMPLE HAZARDS/ REMARKS</b> Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION		Cool~4C/Cool~4C	Cool~4C/Cool~4C	None	
				TYPE OF CONTAINER		G/P	aG	Moisture Resistant Cont	
				NO. OF CONTAINER(S)		1	1	1	
				VOLUME		500mL	250mL	200g	
		SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	
SAMPLE NO.		MATRIX*		SAMPLE DATE	SAMPLE TIME				
B1YND4		SOIL		<i>3/3/09</i>	<i>1307</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CHAIN OF POSSESSION				SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME		SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS	
<i>K. H. H. H.</i>		<i>3/3/09 1530</i>		<i>MO-413 Ref #2</i>		<i>3-3-09 1530</i>			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
<i>Larry ROSANE Tony Rosane</i>		<i>4-1-09 1300</i>		<i>Chenxin Jouni</i>		<i>4/1/09 1300</i>			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
LABORATORY SECTION		RECEIVED BY				TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD				DISPOSED BY		DATE/TIME	



CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F09-012-037	PAGE 2 OF 2
COLLECTOR	COMPANY CONTACT WIDRIG, DL	TELEPHONE NO. 376-2858	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C7021; EW3-001	PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode		SAF NO. F09-012	AIR QUALITY <input type="checkbox"/>	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 300194ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		
<b>SPECIAL INSTRUCTIONS</b> <p>** The 200 Area S&amp;GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.</p> <p>(1)6010M_ICP_ASTM_AE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M_ICP_ASTM_AE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6010M_METALS_ICP_WE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M_METALS_ICP_WE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6020M_ICPMS_ASTM_AE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} IC Anions - 9056 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}</p> <p>(2)TOC - ASTM E1915A {Total organic carbon} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}</p> <p>(3)Moisture Content - D2216 {Percent moisture (wet sample)}</p>					

<b>CH2M Hill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>					<b>F09-012-038</b>	<b>PAGE 1 OF 2</b>										
<b>COLLECTOR</b> Chalon		<b>COMPANY CONTACT</b> WIDRIG, DL		<b>TELEPHONE NO.</b> 376-2858		<b>PROJECT COORDINATOR</b> WIDRIG, DL		<b>PRICE CODE</b> 8N	<b>DATA TURNAROUND</b> 45 Days / 45 Days									
<b>SAMPLING LOCATION</b> C7021; EW3-012		<b>PROJECT DESIGNATION</b> 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				<b>SAF NO.</b> F09-012		<b>AIR QUALITY</b> <input type="checkbox"/>										
<b>ICE CHEST NO.</b>		<b>FIELD LOGBOOK NO.</b> HMF-SBS-9 P19		<b>ACTUAL SAMPLE DEPTH</b> 270'		<b>COA</b> 300194ES10		<b>METHOD OF SHIPMENT</b> GOVERNMENT VEHICLE										
<b>SHIPPED TO</b> Environmental Sciences Laboratory		<b>OFFSITE PROPERTY NO.</b> N/A				<b>BILL OF LADING/AIR BILL NO.</b> N/A												
<b>MATRIX*</b> A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	<b>POSSIBLE SAMPLE HAZARDS/ REMARKS</b> Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		<b>PRESERVATION</b>	Cool~4C/Cool~4C	Cool~4C/Cool~4C	None												
			<b>TYPE OF CONTAINER</b>	G/P	aG	Moisture Resistant Cont												
			<b>NO. OF CONTAINER(S)</b>	1	1	1												
			<b>VOLUME</b>	500mL	250mL	200g												
	<b>SPECIAL HANDLING AND/OR STORAGE</b> RADIOACTIVE TIE TO: B1YNJ0		<b>SAMPLE ANALYSIS</b>	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS												
<b>SAMPLE NO.</b>	<b>MATRIX*</b>	<b>SAMPLE DATE</b>	<b>SAMPLE TIME</b>															
B1YND5	SOIL	4-1-09	0945	✓	✓	✓												
<b>CHAIN OF POSSESSION</b>		<b>SIGN/ PRINT NAMES</b>				<b>SPECIAL INSTRUCTIONS</b>												
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME		SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS										
Steve Rust		4-1-09 / 1030		MO-413 SSU-R1		4-1-09 / 1030												
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME												
Larry Roscoe, Tony Roscoe		4-1-09 / 1300		CHRISTIAN LOVIN		4/1/09 1300												
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME												
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME												
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME												
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME												
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME												
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME												
<b>LABORATORY SECTION</b>		<b>RECEIVED BY</b>				<b>TITLE</b>				<b>DATE/TIME</b>								
<b>FINAL SAMPLE DISPOSITION</b>		<b>DISPOSAL METHOD</b>				<b>DISPOSED BY</b>				<b>DATE/TIME</b>								

<b>CH2M Hill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>		<b>F09-012-038</b>	<b>PAGE 2 OF 2</b>
<b>COLLECTOR</b>	<b>COMPANY CONTACT</b> WIDRIG, DL	<b>TELEPHONE NO.</b> 376-2858	<b>PROJECT COORDINATOR</b> WIDRIG, DL	<b>PRICE CODE</b> 8N	<b>DATA TURNAROUND</b>
<b>SAMPLING LOCATION</b> C7021; EW3-012	<b>PROJECT DESIGNATION</b> 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode		<b>SAF NO.</b> F09-012	<b>AIR QUALITY</b> <input type="checkbox"/>	<b>45 Days / 45 Days</b>
<b>ICE CHEST NO.</b>	<b>FIELD LOGBOOK NO.</b>	<b>ACTUAL SAMPLE DEPTH</b>	<b>COA</b> 300194ES10	<b>METHOD OF SHIPMENT</b> GOVERNMENT VEHICLE	
<b>SHIPPED TO</b> Environmental Sciences Laboratory	<b>OFFSITE PROPERTY NO.</b> N/A		<b>BILL OF LADING/AIR BILL NO.</b> N/A		

**SPECIAL INSTRUCTIONS**

\*\* The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

(1)6010M\_ICP\_ASTM\_AE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_ICP\_ASTM\_AE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6010M\_METALS\_ICP\_WE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_METALS\_ICP\_WE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6020M\_ICPMS\_ASTM\_AE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_ICPMS\_ASTM\_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M\_METALS\_ICPMS\_WE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_METALS\_ICPMS\_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} IC Anions - 9056 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

(2)TOC - ASTM E1915A {Total organic carbon} GAMMA\_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

(3)Moisture Content - D2216 {Percent moisture (wet sample)}



CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-052		PAGE 1 OF 2		
COLLECTOR <i>Patterson / Hedberg</i>		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N		
SAMPLING LOCATION C7021; EW3-010-G.S		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		AIR QUALITY <input type="checkbox"/> DATA TURNAROUND 45 Days / 45 Days		
ICE CHEST NO.		FIELD LOGBOOK NO. <i>HW-2555</i>		ACTUAL SAMPLE DEPTH <i>251'</i>		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A				
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION		Cool~4C/Cool~4C	Cool~4C/Cool~4C	None			
			TYPE OF CONTAINER		G/P	aG	Moisture Resistant Cont			
			NO. OF CONTAINER(S)		1	1	1			
			VOLUME		500mL	250mL	200g			
	SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS			
				<i>LOT #</i>	<i>035499</i>	<i>360030</i>	<i>N/A</i>			
SAMPLE NO.		MATRIX*		SAMPLE DATE	SAMPLE TIME					
B1YND7		SOIL		<i>3/27/09</i>	<i>0930</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		
CHAIN OF POSSESSION				SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS				
RELINQUISHED BY/REMOVED FROM <i>Patterson</i>		DATE/TIME <i>3/27/09 1040</i>		RECEIVED BY/STORED IN <i>MO413 SSU-R2</i>		DATE/TIME <i>3/27/09 1040</i>		SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS		
RELINQUISHED BY/REMOVED FROM <i>Larry Roscoe &amp; Sunny Roscoe</i>		DATE/TIME <i>4-1-09 1300</i>		RECEIVED BY/STORED IN <i>CR/DM/LOU</i>		DATE/TIME <i>4/1/09 1300</i>				
LABORATORY SECTION	RECEIVED BY			TITLE			DATE/TIME			
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD			DISPOSED BY			DATE/TIME			

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F09-012-052	PAGE 2 OF 2
COLLECTOR <i>PHH / HEC</i>	COMPANY CONTACT WIDRIG, DL	TELEPHONE NO. 376-2858	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C7021; EW3-010-G.S	PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode		SAF NO. F09-012	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA 300194ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A			

**SPECIAL INSTRUCTIONS**

\*\* The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

(1)6010M\_ICP\_ASTM\_AE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_ICP\_ASTM\_AE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6010M\_METALS\_ICP\_WE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_METALS\_ICP\_WE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6020M\_ICPMS\_ASTM\_AE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_ICPMS\_ASTM\_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M\_METALS\_ICPMS\_WE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_METALS\_ICPMS\_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} IC Anions - 9056 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

(2)TOC - ASTM E1915A {Total organic carbon} GAMMA\_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

(3)Moisture Content - D2216 {Percent moisture (wet sample)}

Washington River Protection Solutions		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-019		PAGE 1 OF 2	
COLLECTOR <i>BATES</i>		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N	
SAMPLING LOCATION C7018; EW2-001		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. <i>N/A</i>		FIELD LOGBOOK NO. <i>HNF-N-585-8</i>		ACTUAL SAMPLE DEPTH <i>95'</i>		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A			
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION Cool~4C/Cool~4C		Cool~4C/Cool~4C		None	
				TYPE OF CONTAINER G/P		aG		Moisture Resistant Cont	
				NO. OF CONTAINER(S)		1		1	
				VOLUME		500mL		250mL	
				SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS	
						SEE ITEM (2) IN SPECIAL INSTRUCTIONS		SEE ITEM (3) IN SPECIAL INSTRUCTIONS	
SAMPLE NO.		MATRIX*		SAMPLE DATE		SAMPLE TIME			
B1YM90		SOIL		3-26-09		1256			
CHAIN OF POSSESSION				SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME		SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS	
<i>ARMSTRONG - [Signature]</i>		3/26/09 1530		<i>NO-413 - SSUR2</i>		3/26/09 1530			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
<i>Larry Rose</i>		4-1-09/1300		<i>Christina [Signature]</i>		4/1/09 1300			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
LABORATORY SECTION		RECEIVED BY				TITLE			
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD				DISPOSED BY			
						DATE/TIME			



Washington River Protection Solutions		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F09-012-019	PAGE 2 OF 2
COLLECTOR <i>Bates</i>	COMPANY CONTACT WIDRIG, DL	TELEPHONE NO. 376-2858	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C7018; EW2-001	PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode		SAF NO. F09-012	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. <i>N/A</i>	FIELD LOGBOOK NO. <i>HNF-N-585-8</i>	ACTUAL SAMPLE DEPTH <i>95'</i>	COA 300194ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

**SPECIAL INSTRUCTIONS**

\*\* The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

(1)6010M\_ICP\_ASTM\_AE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_ICP\_ASTM\_AE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6010M\_METALS\_ICP\_WE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_METALS\_ICP\_WE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6020M\_ICPMS\_ASTM\_AE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_ICPMS\_ASTM\_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M\_METALS\_ICPMS\_WE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_METALS\_ICPMS\_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} IC Anions - 9056 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

(2)TOC - ASTM E1915A {Total organic carbon} GAMMA\_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

(3)Moisture Content - D2216 {Percent moisture (wet sample)}

<b>CH2MHill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				<b>F09-012-020</b>		<b>PAGE 1 OF 2</b>	
<b>COLLECTOR</b> <i>Karin Helms, Bates</i>		<b>COMPANY CONTACT</b> WIDRIG, DL		<b>TELEPHONE NO.</b> 376-2858		<b>PROJECT COORDINATOR</b> WIDRIG, DL		<b>PRICE CODE</b> <b>8N</b>	
<b>SAMPLING LOCATION</b> C7018; EW2-010		<b>PROJECT DESIGNATION</b> 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				<b>SAF NO.</b> F09-012		<b>AIR QUALITY</b> <input type="checkbox"/> <b>DATA TURNAROUND</b> <b>45 Days / 45 Days</b>	
<b>ICE CHEST NO.</b> <i>N/A</i>		<b>FIELD LOGBOOK NO.</b> <i>122F-N-585-3</i>		<b>ACTUAL SAMPLE DEPTH</b> <i>217'7" to 218'7"</i>		<b>COA</b> 300194ES10		<b>METHOD OF SHIPMENT</b> GOVERNMENT VEHICLE	
<b>SHIPPED TO</b> Environmental Sciences Laboratory		<b>OFFSITE PROPERTY NO.</b> N/A				<b>BILL OF LADING/AIR BILL NO.</b> N/A			
<b>MATRIX*</b> A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		<b>POSSIBLE SAMPLE HAZARDS/ REMARKS</b> Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		<b>PRESERVATION</b> Cool~4C/Cool~4C    Cool~4C/Cool~4C    None					
				<b>TYPE OF CONTAINER</b> G/P    aG    Moisture Resistant Cont					
				<b>NO. OF CONTAINER(S)</b> 1    1    1					
				<b>VOLUME</b> 500mL    250mL    200g					
		<b>SPECIAL HANDLING AND/OR STORAGE</b> <i>RADIOACTIVE Tie to B1YD12</i>		<b>SAMPLE ANALYSIS</b> SEE ITEM (1) IN SPECIAL INSTRUCTIONS    SEE ITEM (2) IN SPECIAL INSTRUCTIONS    SEE ITEM (3) IN SPECIAL INSTRUCTIONS					
<b>SAMPLE NO.</b>		<b>MATRIX*</b>		<b>SAMPLE DATE</b>		<b>SAMPLE TIME</b>			
B1YM91		SOIL		4-6-9		0802		✓    ✓    ✓	
<b>CHAIN OF POSSESSION</b>				<b>SIGN/ PRINT NAMES</b>				<b>SPECIAL INSTRUCTIONS</b>	
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME		SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS	
<i>Ed Kase, Edna Blum</i>		<i>4-6-09 1005</i>		<i>MO 413-SSU-R2</i>		<i>4-06-09 1005</i>			
<i>MO 413 SSU R2</i>		<i>7/9/09 12:45</i>		<i>Braithwaite</i>		<i>7/9/09 12:45</i>			
<i>Braithwaite</i>		<i>7/9/09 14:15</i>		<i>C. Iouni</i>		<i>7/9/09 14:15</i>			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
<b>LABORATORY SECTION</b>		<b>RECEIVED BY</b>				<b>TITLE</b>		<b>DATE/TIME</b>	
<b>FINAL SAMPLE DISPOSITION</b>		<b>DISPOSAL METHOD</b>				<b>DISPOSED BY</b>		<b>DATE/TIME</b>	



CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F09-012-020	PAGE 2 OF 2
COLLECTOR <i>Kear, Helms, Bates</i>	COMPANY CONTACT WIDRIG, DL	TELEPHONE NO. 376-2858	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C7018; EW2-010	PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode		SAF NO. F09-012	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO.	FIELD LOGBOOK NO. <i>14NF-N-585-3</i>	ACTUAL SAMPLE DEPTH <i>217.7 to 218.7</i>	COA 300194ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

**SPECIAL INSTRUCTIONS**

\*\* The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

- (1)6010M\_ICP\_ASTM\_AE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_ICP\_ASTM\_AE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6010M\_METALS\_ICP\_WE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_METALS\_ICP\_WE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6020M\_ICPMS\_ASTM\_AE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_ICPMS\_ASTM\_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M\_METALS\_ICPMS\_WE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_METALS\_ICPMS\_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} IC Anions - 9056 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
- (2)TOC - ASTM E1915A {Total organic carbon} GAMMA\_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}
- (3)Moisture Content - D2216 {Percent moisture (wet sample)}





CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-005		PAGE 1 OF 1	
COLLECTOR <i>Chacon, Fulton</i>		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N	
SAMPLING LOCATION C7017; EW1-014		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. <i>_____</i>		FIELD LOGBOOK NO. <i>HNF-N-585-9</i>		ACTUAL SAMPLE DEPTH <i>272.5-273'</i>		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A			
MATRIX* A=Air DL=Drum L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION Cool~4C/Cool~4C					
				TYPE OF CONTAINER aG					
				NO. OF CONTAINER(S) 1					
				VOLUME 250mL					
		SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS <i>029358</i>					
SAMPLE NO.		MATRIX*		SAMPLE DATE		SAMPLE TIME			
B1YD75		SOIL		3-26-09		1345		✓	
CHAIN OF POSSESSION				SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS ** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. (1)TOC - ASTM E1915A {Total organic carbon} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}	
RELINQUISHED BY/ REMOVED FROM <i>CFu Hoo / [Signature]</i>		DATE/TIME <i>3-26-09 1430</i>		RECEIVED BY/ STORED IN <i>Mo 413 SSU-R2</i>		DATE/TIME <i>3-26-09 1430</i>			
RELINQUISHED BY/ REMOVED FROM <i>Mo-413 854-R2</i>		DATE/TIME <i>4/9/09 1245</i>		RECEIVED BY/ STORED IN <i>Bea Hester</i>		DATE/TIME <i>4/9/09 1245</i>			
RELINQUISHED BY/ REMOVED FROM <i>Bea Hester</i>		DATE/TIME <i>4/9/09 1415</i>		RECEIVED BY/ STORED IN <i>C. + m</i>		DATE/TIME <i>4/9/09 1415</i>			
RELINQUISHED BY/ REMOVED FROM		DATE/TIME		RECEIVED BY/ STORED IN		DATE/TIME			
RELINQUISHED BY/ REMOVED FROM		DATE/TIME		RECEIVED BY/ STORED IN		DATE/TIME			
RELINQUISHED BY/ REMOVED FROM		DATE/TIME		RECEIVED BY/ STORED IN		DATE/TIME			
LABORATORY SECTION		RECEIVED BY				TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD				DISPOSED BY		DATE/TIME	

<b>CH2MHill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>					<b>F09-012-021</b>		<b>PAGE 1 OF 2</b>	
<b>COLLECTOR</b> Bates, Smith, ROSANE		<b>COMPANY CONTACT</b> WIDRIG, DL		<b>TELEPHONE NO.</b> 376-2858		<b>PROJECT COORDINATOR</b> WIDRIG, DL		<b>PRICE CODE</b> 8N		<b>DATA TURNAROUND</b> 45 Days / 45 Days
<b>SAMPLING LOCATION</b> C7018; EW2-011-G.S.		<b>PROJECT DESIGNATION</b> 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				<b>SAF NO.</b> F09-012		<b>AIR QUALITY</b> <input type="checkbox"/>		
<b>ICE CHEST NO.</b>		<b>FIELD LOGBOOK NO.</b> HNF-U-585-8 pg 4		<b>ACTUAL SAMPLE DEPTH</b> 227.65'		<b>COA</b> 300194ES10		<b>METHOD OF SHIPMENT</b> GOVERNMENT VEHICLE		
<b>SHIPPED TO</b> Environmental Sciences Laboratory		<b>OFFSITE PROPERTY NO.</b> N/A				<b>BILL OF LADING/AIR BILL NO.</b> N/A				
<b>MATRIX*</b> A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	<b>POSSIBLE SAMPLE HAZARDS/ REMARKS</b> Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		<b>PRESERVATION</b>		Cool~4C/Cool~4C	Cool~4C/Cool~4C	None			
			<b>TYPE OF CONTAINER</b>		G/P	aG	Moisture Resistant Cont			
			<b>NO. OF CONTAINER(S)</b>		1	1	1			
			<b>VOLUME</b>		500mL	250mL	200g			
	<b>SPECIAL HANDLING AND/OR STORAGE</b>		<b>SAMPLE ANALYSIS</b>		SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS			
<b>SAMPLE NO.</b>		<b>MATRIX*</b>		<b>SAMPLE DATE</b>	<b>SAMPLE TIME</b>					
B1YM92		SOIL		4-10-09	1210	✓	✓	✓		
<b>CHAIN OF POSSESSION</b>				<b>SIGN/ PRINT NAMES</b>				<b>SPECIAL INSTRUCTIONS</b> SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS		
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
Larry ROSANE, Larry Rosane		4-10-09/1400		MO-413 Ref #2		4-10-09/1400				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
MO-413 Su R2		4-16-09 11:00		D. P. Arch Dring		4-16-09 11:00				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
D. P. Arch Dring		4-16-09 12:00		Kendryl		4-16-09 12:00				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
<b>LABORATORY SECTION</b>		<b>RECEIVED BY</b>					<b>TITLE</b>		<b>DATE/TIME</b>	
<b>FINAL SAMPLE DISPOSITION</b>		<b>DISPOSAL METHOD</b>					<b>DISPOSED BY</b>		<b>DATE/TIME</b>	



CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F09-012-021	PAGE 2 OF 2
COLLECTOR	COMPANY CONTACT WIDRIG, DL	TELEPHONE NO. 376-2858	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C7018; EW2-011-G.S	PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode		SAF NO. F09-012	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO.	FIELD LOGBOOK NO. HUF-N-585-8pg 4	ACTUAL SAMPLE DEPTH 227.65'	COA 300194ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

**SPECIAL INSTRUCTIONS**

\*\* The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

(1)6010M\_ICP\_ASTM\_AE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_ICP\_ASTM\_AE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6010M\_METALS\_ICP\_WE (TAL) {Aluminum, Barium, Calcium, Cobalt, Copper, Iron, Magnesium, Manganese, Potassium, Vanadium, Zinc} 6010M\_METALS\_ICP\_WE (Add-On) {Beryllium, Bismuth, Boron, Lithium, Phosphorus, Strontium, Zirconium} 6020M\_ICPMS\_ASTM\_AE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_ICPMS\_ASTM\_AE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} 6020M\_METALS\_ICPMS\_WE (TAL) {Antimony, Cadmium, Chromium, Silver} 6020M\_METALS\_ICPMS\_WE (Add-On) {Arsenic, Lead, Molybdenum, Selenium} IC Anions - 9056 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}

(2)TOC - ASTM E1915A {Total organic carbon} GAMMA\_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

(3)Moisture Content - D2216 {Percent moisture (wet sample)}







CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-006		PAGE 1 OF 1	
COLLECTOR <i>KAUER, Helms</i>		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N DATA TURNAROUND 45 Days / 45 Days	
SAMPLING LOCATION C7017; EW1-016		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. <i>GWS C-8</i>		FIELD LOGBOOK NO. <i>HNF-N-585-9</i>		ACTUAL SAMPLE DEPTH <i>295'</i>		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A			
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION		Cool~4C/Cool~4C				
			TYPE OF CONTAINER		aG				
			NO. OF CONTAINER(S)		1				
			VOLUME		250mL				
	SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS				
SAMPLE NO.		MATRIX*		SAMPLE DATE	SAMPLE TIME				
B1YD76		SOIL		4-20-09	0848	✓			
CHAIN OF POSSESSION				SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME		** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. (1)TOC - ASTM E1915A {Total organic carbon} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}	
<i>Ed Kauer, Helms</i>		4-20-09 0918		<i>MO-413 BBU-R2</i>		4-20-09 0918			
<i>MO-413 SBU-R2</i>		4-27-09 1230		<i>D. Parache</i>		4-27-09 1230			
<i>D. Parache</i>		4-27-09 1310		<i>C. J. Oum</i>		4-27-09 1310			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
LABORATORY SECTION		RECEIVED BY				TITLE			
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD				DISPOSED BY			
						DATE/TIME			





CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-007		PAGE 1 OF 1		
COLLECTOR <i>KAVR, Brotherton</i>		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N		
SAMPLING LOCATION C7017; EW1-018		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		AIR QUALITY <input type="checkbox"/>		
ICE CHEST NO. <i>GSWC-8</i>		FIELD LOGBOOK NO. <i>P5 30</i> <i>4NF-N-585-9</i>		ACTUAL SAMPLE DEPTH <i>314.6</i>		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A				
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION		Cool~4C/Cool~4C					
			TYPE OF CONTAINER		aG					
			NO. OF CONTAINER(S)		1					
			VOLUME		250mL					
	SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS					
SAMPLE NO.		MATRIX*		SAMPLE DATE	SAMPLE TIME					
B1YD77		SOIL		<i>4-22-09</i>	<i>07:06</i>	<i>✓</i>				
CHAIN OF POSSESSION				SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME		** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. (1)TOC - ASTM E1915A {Total organic carbon} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}		
<i>Ed KAVR</i>		<i>4-22-09 07:13</i>		<i>MO-413 SSU-R2</i>		<i>4/22/09 07:13</i>				
<i>MO 413 SSU-R2</i>		<i>4-27-09 12:10</i>		<i>D. Parich</i>		<i>4-27-09</i>				
<i>D. Parich</i>		<i>4-27-09 13:10</i>		<i>C. Iovin</i>		<i>4/27/09 13:10</i>				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
LABORATORY SECTION		RECEIVED BY				TITLE				
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD				DISPOSED BY				
						DATE/TIME				



CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-008		PAGE 1 OF 1	
COLLECTOR <i>K.J. Young</i>		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N	
SAMPLING LOCATION C7017; EW1-020		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. <i>SML-470</i>		FIELD LOGBOOK NO. <i>HNF-N-585-01 pg 30</i>		ACTUAL SAMPLE DEPTH <i>334.5</i>		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A			
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		PRESERVATION		Cool~4C/Cool~4C					
		TYPE OF CONTAINER		aG					
		NO. OF CONTAINER(S)		1					
		VOLUME		250mL					
POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS			
SAMPLE NO.		MATRIX*		SAMPLE DATE		SAMPLE TIME			
B1YD78		SOIL		4/22/09		1623		✓	
CHAIN OF POSSESSION				SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>K.J. Young</i>		DATE/TIME 4/22/09 1651		RECEIVED BY/STORED IN <i>SSU-R2</i>		DATE/TIME 4/22/09 1651		** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. (1)TOC - ASTM E1915A {Total organic carbon} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}	
RELINQUISHED BY/REMOVED FROM <i>mo 4.13 SSU-R2</i>		DATE/TIME 4-27-09 1230		RECEIVED BY/STORED IN <i>D. Parker</i>		DATE/TIME 4-27-09 1230			
RELINQUISHED BY/REMOVED FROM <i>D. Parker</i>		DATE/TIME 4-27-09 1310		RECEIVED BY/STORED IN <i>C. J. J. J.</i>		DATE/TIME 4/27/09 1310			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
LABORATORY SECTION		RECEIVED BY				TITLE			
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD				DISPOSED BY			
						DATE/TIME			

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-009		PAGE 1 OF 1	
COLLECTOR <i>Rosane, Bates</i>		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N	
SAMPLING LOCATION C7017; EW1-022		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		DATA TURNAROUND 45 Days / 45 Days	
ICE CHEST NO. <i>GWSC-8</i>		FIELD LOGBOOK NO. <i>HNF-N-585-9 pg 32</i>		ACTUAL SAMPLE DEPTH <i>355'</i>		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A			
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION Cool~4C/Cool~4C					
				TYPE OF CONTAINER aG					
				NO. OF CONTAINER(S) 1					
				VOLUME 250mL					
		SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS			
SAMPLE NO.		MATRIX*		SAMPLE DATE		SAMPLE TIME			
B1YD79		SOIL		<i>4-24-09</i>		<i>0750</i>			
CHAIN OF POSSESSION				SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS  ** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. (1)TOC - ASTM E1915A {Total organic carbon} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}	
RELINQUISHED BY/REMOVED FROM <i>Larry Rosane</i>		DATE/TIME <i>4-24-09/0811</i>		RECEIVED BY/STORED IN <i>Mo 413 Ref #2</i>		DATE/TIME <i>4-24-09/0811</i>			
RELINQUISHED BY/REMOVED FROM <i>MO 413 SSA R2</i>		DATE/TIME <i>4-27-09 1300</i>		RECEIVED BY/STORED IN <i>D.E. Parker</i>		DATE/TIME <i>4-27-09 1300</i>			
RELINQUISHED BY/REMOVED FROM <i>D.E. Parker</i>		DATE/TIME <i>4-27-09</i>		RECEIVED BY/STORED IN <i>C. J. Smith</i>		DATE/TIME <i>4/27/09 1310</i>			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
LABORATORY SECTION		RECEIVED BY				TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD				DISPOSED BY		DATE/TIME	



CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-041		PAGE 1 OF 1	
COLLECTOR <i>Bader</i>		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N	
SAMPLING LOCATION C7021; EW3-018		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO.		FIELD LOGBOOK NO. <i>p-23</i> <i>NMF-N-585-9</i>		ACTUAL SAMPLE DEPTH <i>311.5-313.5</i>		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A			
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION Cool~4C/Cool~4C						
			TYPE OF CONTAINER aG						
			NO. OF CONTAINER(S) 1						
			VOLUME 250mL						
	SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B1YNN3		SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS						
SAMPLE NO.		MATRIX*		SAMPLE DATE		SAMPLE TIME			
B1YND9		SOIL		<i>4-9-09</i>		<i>1525</i>		<i>✓</i>	
<i>Loj #</i>						<i>029330</i>			
CHAIN OF POSSESSION				SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>Star-Rest</i>		DATE/TIME <i>4-9-09 1600</i>		RECEIVED BY/STORED IN <i>Pete Bates</i>		DATE/TIME <i>4-9-09/1600</i>		** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. (1)TOC - ASTM E1915A {Total organic carbon} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}	
RELINQUISHED BY/REMOVED FROM <i>mo 413 SSA R2</i>		DATE/TIME <i>4-30-09 1100</i>		RECEIVED BY/STORED IN <i>D. R. Smith</i>		DATE/TIME <i>4-30-09</i>			
RELINQUISHED BY/REMOVED FROM <i>D. R. Smith</i>		DATE/TIME <i>4-30-09</i>		RECEIVED BY/STORED IN <i>I. K. Smith</i>		DATE/TIME <i>4/30/09 13:00</i>			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
LABORATORY SECTION		RECEIVED BY				TITLE			
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD				DISPOSED BY			
						DATE/TIME			

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-042		PAGE 1 OF 1	
COLLECTOR <i>Bates</i>		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N	
SAMPLING LOCATION C7021; EW3-018-D		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO.		FIELD LOGBOOK NO. <i>P.23</i> <i>HNF-N-585-9</i>		ACTUAL SAMPLE DEPTH <i>311.5-313.5</i>		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A			
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION Cool~4C/Cool~4C					
				TYPE OF CONTAINER aG					
				NO. OF CONTAINER(S) 1					
				VOLUME 250mL					
		SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B1YNN3		SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS					
SAMPLE NO.		MATRIX*		SAMPLE DATE		SAMPLE TIME			
B1YNF0		SOIL		<i>4-9-09</i>		<i>1525</i>		<i>✓</i>	
<i>Lot 2</i>						<i>029336</i>			
CHAIN OF POSSESSION				SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME		** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. (1)TOC - ASTM E1915A {Total organic carbon} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}	
<i>John R. Rust</i>		<i>4-9-09 1600</i>		<i>John R. Rust</i>		<i>4-9-09 1600</i>			
<i>MO-13 SSA 22</i>		<i>4-30-09 1100</i>		<i>S. Parsh</i>		<i>4-30-09</i>			
<i>D. Parsh</i>		<i>4-30-09 1300</i>		<i>J. Kudrya</i>		<i>4-30-09 1300</i>			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
LABORATORY SECTION		RECEIVED BY				TITLE			
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD				DISPOSED BY			
						DATE/TIME			
						DATE/TIME			









CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-011		PAGE 1 OF 1	
COLLECTOR Kawse, Crow, White		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N DATA TURNAROUND 45 Days / 45 Days	
SAMPLING LOCATION C7017; EW1-026		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO.		FIELD LOGBOOK NO. HNF-N-585-9 P535		ACTUAL SAMPLE DEPTH 395'		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A			
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION Cool~4C/Cool~4C					
		TYPE OF CONTAINER		aG					
		NO. OF CONTAINER(S)		1					
		VOLUME		250mL					
		SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS					
SAMPLE NO.		MATRIX*		SAMPLE DATE		SAMPLE TIME			
B1YD81		SOIL		4-28-09		0900		✓	
CHAIN OF POSSESSION				SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME		** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. (1)TOC - ASTM E1915A {Total organic carbon} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}	
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
LABORATORY SECTION		RECEIVED BY				TITLE			
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD				DISPOSED BY			
						DATE/TIME			
						DATE/TIME			







CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-045		PAGE 1 OF 1	
<b>COLLECTOR</b> Helen / WATR		<b>COMPANY CONTACT</b> WIDRIG, DL		<b>TELEPHONE NO.</b> 376-2858		<b>PROJECT COORDINATOR</b> WIDRIG, DL		<b>PRICE CODE</b> 8N <b>DATA TURNAROUND</b> 45 Days / 45 Days	
<b>SAMPLING LOCATION</b> C7021; EW3-024		<b>PROJECT DESIGNATION</b> 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				<b>SAF NO.</b> F09-012		<b>AIR QUALITY</b> <input type="checkbox"/>	
<b>ICE CHEST NO.</b>		<b>FIELD LOGBOOK NO.</b> HNF-N-585-9		<b>ACTUAL SAMPLE DEPTH</b> 392' - 394'		<b>COA</b> 300194ES10		<b>METHOD OF SHIPMENT</b> GOVERNMENT VEHICLE	
<b>SHIPPED TO</b> Environmental Sciences Laboratory		<b>OFFSITE PROPERTY NO.</b> N/A				<b>BILL OF LADING/AIR BILL NO.</b> N/A			
<b>MATRIX*</b> A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		<b>POSSIBLE SAMPLE HAZARDS/ REMARKS</b> Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		<b>PRESERVATION</b> Cool~4C/Cool~4C					
		<b>TYPE OF CONTAINER</b>		aG					
		<b>NO. OF CONTAINER(S)</b>		1					
		<b>VOLUME</b>		250mL					
		<b>SPECIAL HANDLING AND/OR STORAGE</b> RADIOACTIVE TIE TO: B1YNP0		<b>SAMPLE ANALYSIS</b> SEE ITEM (1) IN SPECIAL INSTRUCTIONS					
<b>SAMPLE NO.</b>		<b>MATRIX*</b>		<b>SAMPLE DATE</b>		<b>SAMPLE TIME</b>			
B1YNF3		SOIL		4/27/09		10:46			
<b>CHAIN OF POSSESSION</b>				<b>SIGN/ PRINT NAMES</b>				<b>SPECIAL INSTRUCTIONS</b>	
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME		** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. (1)TOC - ASTM E1915A {Total organic carbon} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}	
BROTHERTON Burt		4/27/09 15:45		MO-413 RKU-S2		4/27/09 15:45			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
MO-413 S54-23		MAY 13 2009 12:30		KC Patterson		MAY 13 2009 1:40			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
KC Patterson		MAY 13 2009		Igor Kudryakov		5/13/09 12:30			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
<b>LABORATORY SECTION</b>		<b>RECEIVED BY</b>				<b>TITLE</b>			
<b>FINAL SAMPLE DISPOSITION</b>		<b>DISPOSAL METHOD</b>				<b>DISPOSED BY</b>			





<b>CH2M Hill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				<b>F09-012-047</b>		<b>PAGE 1 OF 1</b>	
<b>COLLECTOR</b> <i>ROSANNE</i>		<b>COMPANY CONTACT</b> WIDRIG, DL		<b>TELEPHONE NO.</b> 376-2858		<b>PROJECT COORDINATOR</b> WIDRIG, DL		<b>PRICE CODE</b> 8N	
<b>SAMPLING LOCATION</b> C7021; EW3-028		<b>PROJECT DESIGNATION</b> 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				<b>SAF NO.</b> F09-012		<b>AIR QUALITY</b> <input type="checkbox"/>	
<b>ICE CHEST NO.</b>		<b>FIELD LOGBOOK NO.</b> <i>HAUF-N-585-9 pg 37</i>		<b>ACTUAL SAMPLE DEPTH</b> <i>432' - 434'</i>		<b>COA</b> 300194ES10		<b>METHOD OF SHIPMENT</b> GOVERNMENT VEHICLE	
<b>SHIPPED TO</b> Environmental Sciences Laboratory		<b>OFFSITE PROPERTY NO.</b> N/A				<b>BILL OF LADING/AIR BILL NO.</b> N/A			
<b>MATRIX*</b> A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		<b>POSSIBLE SAMPLE HAZARDS/ REMARKS</b> Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		<b>PRESERVATION</b> Cool~4C/Cool~4C					
				<b>TYPE OF CONTAINER</b> aG					
				<b>NO. OF CONTAINER(S)</b> 1					
				<b>VOLUME</b> 250mL					
		<b>SPECIAL HANDLING AND/OR STORAGE</b> RADIOACTIVE TIE TO: B1YNP5		<b>SAMPLE ANALYSIS</b>		SEE ITEM (1) IN SPECIAL INSTRUCTIONS			
<b>SAMPLE NO.</b>		<b>MATRIX*</b>		<b>SAMPLE DATE</b>		<b>SAMPLE TIME</b>			
B1YNF5		SOIL		5-1-09		1140		✓	
<b>CHAIN OF POSSESSION</b>				<b>SIGN/ PRINT NAMES</b>				<b>SPECIAL INSTRUCTIONS</b>	
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME		** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. (1)TOC - ASTM E1915A {Total organic carbon} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}	
<i>Larry Rosene, Jimmy Rosene</i>		5-1-09 / 1220		<i>7M0-413 Ref #2</i>		5-1-09 / 1220			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
<i>MO-113 SSU-K2</i>		MAY 13 2009 / 1220		<i>KCP Patterson</i>		MAY 13 2009 / 1220			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
<i>[Signature]</i>		MAY 13 2009		<i>Igor Kudryalov</i>		5/13/09			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME			
<b>LABORATORY SECTION</b>		<b>RECEIVED BY</b>				<b>TITLE</b>		<b>DATE/TIME</b>	
<b>FINAL SAMPLE DISPOSITION</b>		<b>DISPOSAL METHOD</b>				<b>DISPOSED BY</b>		<b>DATE/TIME</b>	





CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F09-012-013		PAGE 1 OF 1		
COLLECTOR <i>Kauer</i>		COMPANY CONTACT WIDRIG, DL		TELEPHONE NO. 376-2858		PROJECT COORDINATOR WIDRIG, DL		PRICE CODE 8N DATA TURNAROUND 45 Days / 45 Days		
SAMPLING LOCATION C7017; EW1-030		PROJECT DESIGNATION 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode				SAF NO. F09-012		AIR QUALITY <input type="checkbox"/>		
ICE CHEST NO.		FIELD LOGBOOK NO. <i>HNF-N 5859 p.39</i>		ACTUAL SAMPLE DEPTH <i>462'</i>		COA 300194ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO Environmental Sciences Laboratory		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A				
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION		Cool~4C/Cool~4C					
			TYPE OF CONTAINER		aG					
			NO. OF CONTAINER(S)		1					
			VOLUME		250mL					
	SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS					
SAMPLE NO.		MATRIX*		SAMPLE DATE	SAMPLE TIME					
B1YD83		SOIL		<i>5-5-09</i>	<i>0828</i>	<i>✓</i>				
CHAIN OF POSSESSION				SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME		** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. (1)TOC - ASTM E1915A {Total organic carbon} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}		
<i>[Signature]</i>		<i>5/5/09</i>		<i>[Signature]</i>		<i>5/5/09 10:00</i>				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
<i>MOU13 SSU-R2</i>		<i>MAY 13 2009 12:30</i>		<i>KC Patterson</i>		<i>MAY 13 2009 12:30</i>				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
<i>[Signature]</i>		<i>MAY 13 2009</i>		<i>Igor Kudnyaev</i>		<i>5/13/09</i>				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME				
LABORATORY SECTION		RECEIVED BY				TITLE				
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD				DISPOSED BY				
						DATE/TIME				
						DATE/TIME				



<b>CH2M Hill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				<b>F09-012-026</b>	<b>PAGE 1 OF 1</b>
<b>COLLECTOR</b> <i>Rosane</i>		<b>COMPANY CONTACT</b> WIDRIG, DL	<b>TELEPHONE NO.</b> 376-2858	<b>PROJECT COORDINATOR</b> WIDRIG, DL		<b>PRICE CODE</b> 8N	<b>DATA TURNAROUND</b> 45 Days / 45 Days
<b>SAMPLING LOCATION</b> C7018; EW2-018		<b>PROJECT DESIGNATION</b> 200-ZP-1 Remedial Action Wells Sampling and Analysis - Geochemical Mode			<b>SAF NO.</b> F09-012	<b>AIR QUALITY</b> <input type="checkbox"/>	
<b>ICE CHEST NO.</b> <i>GWS-063</i>		<b>FIELD LOGBOOK NO.</b> <i>HNF-W-585-8 pg 10</i>	<b>ACTUAL SAMPLE DEPTH</b> <i>308-310'</i>		<b>COA</b> 300194ES10	<b>METHOD OF SHIPMENT</b> GOVERNMENT VEHICLE	
<b>SHIPPED TO</b> Environmental Sciences Laboratory		<b>OFFSITE PROPERTY NO.</b> N/A			<b>BILL OF LADING/AIR BILL NO.</b> N/A		
<b>MATRIX*</b> A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	<b>POSSIBLE SAMPLE HAZARDS/ REMARKS</b> Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	<b>PRESERVATION</b>	Cool~4C/Cool~4C				
		<b>TYPE OF CONTAINER</b>	aG				
		<b>NO. OF CONTAINER(S)</b>	1				
		<b>VOLUME</b>	250mL				
<b>SPECIAL HANDLING AND/OR STORAGE</b> RADIOACTIVE TIE TO: B1YH71		<b>SAMPLE ANALYSIS</b>	SEE ITEM (1) IN SPECIAL INSTRUCTIONS				
<b>SAMPLE NO.</b>	<b>MATRIX*</b>	<b>SAMPLE DATE</b>	<b>SAMPLE TIME</b>				
B1YM97	SOIL	<i>6-26-09</i>	<i>0845</i>	<i>✓</i>			
<b>CHAIN OF POSSESSION</b>		<b>SIGN/ PRINT NAMES</b>		<b>SPECIAL INSTRUCTIONS</b>			
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	<b>** The 200 Area S&amp;GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.</b> (1)TOC - ASTM E1915A {Total organic carbon} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}			
<i>Larry Rosane</i>	<i>6-26-09 / 1500</i>	<i>M0-413 SSU-R2</i>	<i>6-26-09 / 1500</i>				
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME				
<i>M0413 SSU R2</i>	<i>8-3-09</i>	<i>CHPRC</i>	<i>8-3-09</i>				
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME				
<i>DE Patchen</i>	<i>8-3-09</i>	<i>C. Tourin</i>	<i>8/3/09 1300</i>				
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME				
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME				
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME				
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME				
<b>LABORATORY SECTION</b>	<b>RECEIVED BY</b>	<b>TITLE</b>		<b>DATE/TIME</b>			
<b>FINAL SAMPLE DISPOSITION</b>	<b>DISPOSAL METHOD</b>	<b>DISPOSED BY</b>		<b>DATE/TIME</b>			