U.S. DEPARTMENT OF ENERGY

PNNL-18036

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

Analytical Data Report of Grab Samples Collected from the 216-A-5 Crib, Revision 1

MJ Lindberg

December 2008

Pacific Northwest
NATIONAL LABORATORY

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December 2008

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

Pacific Northwest National Laboratory
Richland, Washington 99352

12/29/08

To: Dana Widrig

From: Michael J. Lindberg

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

Subject: Analytical Data Report for Sediment Samples Collected from the 216-A-5 Crib, Sample Delivery Group ESL080026, SAF Number F08-128, Revision 1.

This report was revised on 12/29/2008 to correct previously reported ^{137}Cesium data for sample B1VJ82, Lab Id 0807001-06 and total beta data for sample B1VJ77, Lab ID 0807001-01.

This letter contains the following information for sample delivery group ESL080026

- Cover Sheet
- Narrative
- Analytical Results
- Quality Control
- Geologic Logs
- Geologic Photos
- Chain of Custodies

Introduction

Between July 2, 2008 and September 3, 2008 sediment samples were received from the 216-A-5 Crib 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 analysis. 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:

No Discrepancies were noted.

Preparation Blank (PB):

No Discrepancies were noted.

Duplicate (DUP):

Duplicate RPD for Barium (68.2%) was above the acceptance limit (35) in 8J13003-DUP1 for ICP-OES Vadose-WE
The concentration of the sample was less than 10 times the MDL. The +/- 35 % criteria does not apply.

Laboratory Control Samples (LCS):

No Discrepancies were noted.

Post Spike (PS):

Post-Spike Recovery for Chromium 52 (38.6%) was outside acceptance limits (75-125) in 8J09001-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 Calcium (128%) was outside acceptance limits (75-125) in 8J13003-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 (140%) was outside acceptance limits (75-125) in 8J13003-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 Aluminum (NR) was outside acceptance limits (75-125) in 8J13005-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 (NR) was outside acceptance limits (75-125) in 8J13005-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 (NR) was outside acceptance limits (75-125) in 8J13005-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 Magnesium (NR) was outside acceptance limits (75-125) in 8J13005-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.

Matrix Spike (MS):

No Discrepancies were noted.

Other QC Criteria:

No Discrepancies were noted.

DISCLAIMER

SAMPLES INCLUDED IN THIS REPORT

216-A-5 Crib

HEIS No.	Laboratory ID	Matrix	Date Collected	Date Received
B1VJ77	0807001-01	SOIL	6/25/08 10:15	7/2/08 09:15
B1VJ78	0807001-02	SOIL	7/7/08 14:45	7/10/08 13:30
B1VJ80	0807001-04	SOIL	7/8/08 13:00	7/14/08 14:15
B1VJ82	0807001-06	SOIL	7/9/08 09:12	7/14/08 14:15
B1VJ84	0807001-08	SOIL	7/22/08 10:05	7/28/08 13:43
B1VJ86	0807001-10	SOIL	7/22/08 13:05	7/28/08 13:43
B1VJ91	0807001-15	SOIL	7/24/08 13:55	7/31/08 12:30
B1VJ96	0807001-20	SOIL	8/4/08 14:55	8/7/08 13:05
B1VJB0	0807001-24	SOIL	8/11/08 14:25	8/18/08 13:30
B1VJB8	0807001-26	SOIL	8/13/08 08:22	8/19/08 13:05
B1VJC1	0807001-29	SOIL	8/13/08 14:35	8/19/08 13:05
B1VJC6	0807001-34	SOIL	8/18/08 08:32	8/21/08 09:35
B1VJD1	0807001-42	SOIL	8/18/08 08:25	8/27/08 13:00
B1VJD6	0807001-50	SOIL	8/21/08 13:40	9/3/08 13:00
B1X2C4	0807001-53	SOIL	8/26/08 08:40	9/3/08 13:00
B1X2C8	0807001-57	SOIL	8/27/08 08:45	9/3/08 13:00
B1X2C9	0807001-58	SOIL	8/27/08 09:35	9/3/08 13:00

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

Total Alpha Total Beta Acid Extract By LSC

Actinide 1:1 DI Water Extract by ICPMS

Actinide Acid Extract by ICPMS

AGG-TOC-001

Alkalinity, Titrimetic (pH 4.5)

Anions By Ion Chromatography

Total Alpha Total Beta 1:1 DI Water Extract By LSC

GEA 1:1 DI Water Extract

GEA Acid Extract

GEA No Preparation

Geological Description

Tc_U 1:1 DI Water Extract by ICPMS

Iodine-129 1:1 DI Water Extract by ICPMS

Mercury Acid Extract by ICPMS

Metals 1:1 Water Extract by ICPOES

Metals Acid Extract by ICPOES

Moisture Content

Tc_U Acid Extract by ICPMS

Particle Size Analysis

pH of Waters By Electrode

Specific Conductance

SAMPLES ANALYZED IN THIS REPORT

HEIS No.	Laboratory ID	Matrix	Date Collected	Date Received
B1VJ77	0807001-01	SOIL	6/25/08 10:15	7/2/08 09:15
B1VJ78	0807001-02	SOIL	7/7/08 14:45	7/10/08 13:30
B1VJ80	0807001-04	SOIL	7/8/08 13:00	7/14/08 14:15
B1VJ82	0807001-06	SOIL	7/9/08 09:12	7/14/08 14:15
B1VJ84	0807001-08	SOIL	7/22/08 10:05	7/28/08 13:43
B1VJ86	0807001-10	SOIL	7/22/08 13:05	7/28/08 13:43
B1VJ91	0807001-15	SOIL	7/24/08 13:55	7/31/08 12:30
B1VJ96	0807001-20	SOIL	8/4/08 14:55	8/7/08 13:05
B1VJB0	0807001-24	SOIL	8/11/08 14:25	8/18/08 13:30
B1VJB8	0807001-26	SOIL	8/13/08 08:22	8/19/08 13:05
B1VJC1	0807001-29	SOIL	8/13/08 14:35	8/19/08 13:05
B1VJC6	0807001-34	SOIL	8/18/08 08:32	8/21/08 09:35
B1VJD1	0807001-42	SOIL	8/18/08 08:25	8/27/08 13:00
B1VJD6	0807001-50	SOIL	8/21/08 13:40	9/3/08 13:00
B1X2C4	0807001-53	SOIL	8/26/08 08:40	9/3/08 13:00
B1X2C8	0807001-57	SOIL	8/27/08 08:45	9/3/08 13:00
B1X2C9	0807001-58	SOIL	8/27/08 09:35	9/3/08 13:00

Wet Chemistry

Alkalinity as CaCO3 (ug/g dry) by Standard Methods 2320B

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0807001-01	B1VJ77	7.93E1	2.35E1	10/13/08	8J13004
0807001-02	B1VJ78	<2.35E1	2.35E1	10/13/08	8J13004
0807001-04	B1VJ80	4.89E1	2.35E1	10/13/08	8J13004
0807001-06	B1VJ82	6.72E1	2.35E1	10/13/08	8J13004
0807001-10	B1VJ86	4.89E1	2.35E1	10/13/08	8J13004
0807001-15	B1VJ91	6.72E1	2.35E1	10/13/08	8J13004
0807001-20	B1VJ96	4.90E1	2.36E1	10/13/08	8J13004
0807001-24	B1VJB0	4.37E1	2.36E1	10/13/08	8J13004
0807001-26	B1VJB8	3.58E1	2.34E1	10/13/08	8J13004
0807001-29	B1VJC1	4.50E1	2.35E1	10/13/08	8J13004
0807001-34	B1VJC6	5.57E1	2.35E1	10/13/08	8J13004
0807001-42	B1VJD1	6.67E1	2.36E1	10/13/08	8J13004
0807001-50	B1VJD6	5.18E1	2.35E1	10/13/08	8J13004
0807001-53	B1X2C4	5.26E1	2.34E1	10/13/08	8J13004
0807001-57	B1X2C8	4.04E1	2.35E1	10/13/08	8J13004
0807001-58	B1X2C9	4.67E1	2.39E1	10/13/08	8J13004

Wet Chemistry

Specific Conductance (EC) (mS/cm) by EPA 120.1

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0807001-01	B1VJ77	1.80E-1	1.00E-2	10/03/08	8J03001
0807001-02	B1VJ78	5.40E-2	1.00E-2	10/03/08	8J03001
0807001-04	B1VJ80	9.20E-2	1.00E-2	10/03/08	8J03001
0807001-06	B1VJ82	1.48E-1	1.00E-2	10/03/08	8J03001
0807001-10	B1VJ86	1.05E-1	1.00E-2	10/03/08	8J03001
0807001-15	B1VJ91	1.36E-1	1.00E-2	10/03/08	8J03001
0807001-20	B1VJ96	1.11E-1	1.00E-2	10/03/08	8J03001
0807001-24	B1VJB0	1.23E-1	1.00E-2	10/03/08	8J03001
0807001-26	B1VJB8	1.42E-1	1.00E-2	10/03/08	8J03001
0807001-29	B1VJC1	1.63E-1	1.00E-2	10/03/08	8J03001
0807001-34	B1VJC6	1.73E-1	1.00E-2	10/03/08	8J03001
0807001-42	B1VJD1	2.58E-1	1.00E-2	10/03/08	8J03001
0807001-50	B1VJD6	1.66E-1	1.00E-2	10/03/08	8J03001
0807001-53	B1X2C4	1.57E-1	1.00E-2	10/03/08	8J03001
0807001-57	B1X2C8	1.66E-1	1.00E-2	10/03/08	8J03001
0807001-58	B1X2C9	1.08E-1	1.00E-2	10/03/08	8J03001

Wet Chemistry

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

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0807001-01	B1VJ77	4.84E0	N/A	9/19/08	8I11007
0807001-02	B1VJ78	6.51E0	N/A	9/19/08	8I11007
0807001-04	B1VJ80	4.67E0	N/A	9/19/08	8I11007
0807001-06	B1VJ82	6.97E0	N/A	9/19/08	8I11007
0807001-08	B1VJ84	3.73E0	N/A	9/19/08	8I11007
0807001-10	B1VJ86	2.98E0	N/A	9/19/08	8I11007
0807001-15	B1VJ91	5.65E0	N/A	9/19/08	8I11007
0807001-20	B1VJ96	2.94E0	N/A	9/19/08	8I11007
0807001-24	B1VJB0	3.42E0	N/A	9/19/08	8I11007
0807001-26	B1VJB8	3.68E0	N/A	9/19/08	8I11007
0807001-29	B1VJC1	6.06E0	N/A	9/19/08	8I11007
0807001-34	B1VJC6	3.12E0	N/A	9/19/08	8I11007
0807001-42	B1VJD1	6.80E0	N/A	9/19/08	8I11007
0807001-50	B1VJD6	3.80E0	N/A	9/19/08	8I11007
0807001-53	B1X2C4	4.11E0	N/A	9/19/08	8I11007
0807001-57	B1X2C8	4.67E0	N/A	9/19/08	8I11007
0807001-58	B1X2C9	1.12E1	N/A	9/19/08	8I11007

Wet Chemistry

pH (pH Units) by AGG-pH-001

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0807001-01	B1VJ77	8.15E0	N/A	10/03/08	8J02003
0807001-02	B1VJ78	6.86E0	N/A	10/03/08	8J02003
0807001-04	B1VJ80	7.66E0	N/A	10/03/08	8J02003
0807001-06	B1VJ82	7.88E0	N/A	10/03/08	8J02003
0807001-10	B1VJ86	7.82E0	N/A	10/03/08	8J02003
0807001-15	B1VJ91	7.68E0	N/A	10/03/08	8J02003
0807001-20	B1VJ96	7.79E0	N/A	10/03/08	8J02003
0807001-24	B1VJB0	7.66E0	N/A	10/03/08	8J02003
0807001-26	B1VJB8	7.63E0	N/A	10/03/08	8J02003
0807001-29	B1VJC1	7.83E0	N/A	10/03/08	8J02003
0807001-34	B1VJC6	7.68E0	N/A	10/03/08	8J02003
0807001-42	B1VJD1	7.90E0	N/A	10/03/08	8J02003
0807001-50	B1VJD6	7.97E0	N/A	10/03/08	8J02003
0807001-53	B1X2C4	8.07E0	N/A	10/03/08	8J02003
0807001-57	B1X2C8	7.87E0	N/A	10/03/08	8J02003
0807001-58	B1X2C9	7.89E0	N/A	10/03/08	8J02003

Anions by Ion Chromatography

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**			
16984-48-8	Fluoride	9.52E-1	ug/g dry	2.00E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	2.09E0	ug/g dry	4.99E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<9.99E-1	ug/g dry	9.99E-1	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	<9.99E-1	ug/g dry	9.99E-1	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	1.17E1	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	9.88E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**			
16984-48-8	Fluoride	1.01E0	ug/g dry	2.00E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	5.32E-1	ug/g dry	5.01E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	6.52E0	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	3.58E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	1.15E1	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**			
16984-48-8	Fluoride	<2.00E-1	ug/g dry	2.00E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	<5.00E-1	ug/g dry	5.00E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	5.04E0	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	2.21E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	4.76E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**			
16984-48-8	Fluoride	1.19E0	ug/g dry	2.00E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	7.20E-1	ug/g dry	5.00E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	1.53E0	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	1.26E1	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**			
16984-48-8	Fluoride	4.35E-1	ug/g dry	2.00E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	1.08E0	ug/g dry	5.00E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	<1.00E0	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	1.07E1	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**			
16984-48-8	Fluoride	<2.00E-1	ug/g dry	2.00E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	6.34E0	ug/g dry	4.99E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<9.99E-1	ug/g dry	9.99E-1	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	1.43E1	ug/g dry	9.99E-1	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	1.01E1	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**			
16984-48-8	Fluoride	<2.00E-1	ug/g dry	2.00E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	5.34E-1	ug/g dry	5.01E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	1.14E1	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	5.75E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001

Anions by Ion Chromatography

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**			
16984-48-8	Fluoride	<2.00E-1	ug/g dry	2.00E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	<5.01E-1	ug/g dry	5.01E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	2.50E1	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	6.18E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**			
16984-48-8	Fluoride	2.04E-1	ug/g dry	1.99E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	<4.98E-1	ug/g dry	4.98E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<9.96E-1	ug/g dry	9.96E-1	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	3.90E1	ug/g dry	9.96E-1	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	5.44E0	ug/g dry	1.49E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	<1.49E0	ug/g dry	1.49E0	10/03/08	8J03002	AGG-IC-001
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**			
16984-48-8	Fluoride	4.27E-1	ug/g dry	2.00E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	1.42E0	ug/g dry	4.99E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<9.99E-1	ug/g dry	9.99E-1	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	3.36E1	ug/g dry	9.99E-1	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	8.94E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**			
16984-48-8	Fluoride	2.69E-1	ug/g dry	2.00E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	8.68E-1	ug/g dry	5.00E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	3.11E1	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	1.25E1	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**			
16984-48-8	Fluoride	1.77E0	ug/g dry	2.01E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	1.27E0	ug/g dry	5.02E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<1.00E0	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	6.64E1	ug/g dry	1.00E0	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	1.37E1	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**			
16984-48-8	Fluoride	5.10E-1	ug/g dry	2.00E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	9.10E-1	ug/g dry	4.99E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<9.98E-1	ug/g dry	9.98E-1	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	3.66E1	ug/g dry	9.98E-1	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	6.21E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**			
16984-48-8	Fluoride	6.48E-1	ug/g dry	1.99E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	8.47E-1	ug/g dry	4.99E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<9.97E-1	ug/g dry	9.97E-1	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	2.79E1	ug/g dry	9.97E-1	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	9.55E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001

Anions by Ion Chromatography

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**			
16984-48-8	Fluoride	4.00E-1	ug/g dry	2.00E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	1.19E0	ug/g dry	4.99E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<9.99E-1	ug/g dry	9.99E-1	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	3.57E1	ug/g dry	9.99E-1	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	1.39E1	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	<1.50E0	ug/g dry	1.50E0	10/03/08	8J03002	AGG-IC-001
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**			
16984-48-8	Fluoride	4.12E-1	ug/g dry	2.04E-1	10/03/08	8J03002	AGG-IC-001
16887-00-6	Chloride	2.61E0	ug/g dry	5.09E-1	10/03/08	8J03002	AGG-IC-001
14797-65-0	Nitrite	<1.02E0	ug/g dry	1.02E0	10/03/08	8J03002	AGG-IC-001
14797-55-8	Nitrate	2.56E0	ug/g dry	1.02E0	10/03/08	8J03002	AGG-IC-001
14808-79-8	Sulfate	1.31E1	ug/g dry	1.53E0	10/03/08	8J03002	AGG-IC-001
l4265-44-2	Phosphate	<1.53E0	ug/g dry	1.53E0	10/03/08	8J03002	AGG-IC-001

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

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**			
7429-90-5	Aluminum	3.94E-1	ug/g dry	8.57E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.34E-2	ug/g dry	8.78E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.84E-2	ug/g dry	2.84E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	4.50E0	ug/g dry	3.86E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	5.79E-1	ug/g dry	1.42E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	2.77E0	ug/g dry	2.32E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.03E0	ug/g dry	8.33E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.32E-2	ug/g dry	9.32E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	3.63E1	ug/g dry	6.68E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**			
7429-90-5	Aluminum	8.05E-1	ug/g dry	8.59E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	<8.80E-3	ug/g dry	8.80E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.85E-2	ug/g dry	2.85E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	<3.88E-1	ug/g dry	3.88E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.22E0	ug/g dry	1.42E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	<2.33E0	ug/g dry	2.33E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.74E-1	ug/g dry	8.35E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.72E-2	ug/g dry	1.72E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.35E-2	ug/g dry	9.35E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.12E1	ug/g dry	6.70E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**			
7429-90-5	Aluminum	1.74E-1	ug/g dry	8.58E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	<8.79E-3	ug/g dry	8.79E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.84E-2	ug/g dry	2.84E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	9.27E0	ug/g dry	3.87E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.42E-1	ug/g dry	1.42E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	<2.33E0	ug/g dry	2.33E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.46E0	ug/g dry	8.34E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.33E-2	ug/g dry	9.33E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	7.58E0	ug/g dry	6.69E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**			
7429-90-5	Aluminum	1.31E-1	ug/g dry	8.58E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.60E-2	ug/g dry	8.79E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.84E-2	ug/g dry	2.84E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.37E1	ug/g dry	3.87E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.42E-1	ug/g dry	1.42E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	<2.33E0	ug/g dry	2.33E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.68E0	ug/g dry	8.34E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	1.79E-2	ug/g dry	1.71E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.33E-2	ug/g dry	9.33E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.53E1	ug/g dry	6.69E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**			
7429-90-5	Aluminum	2.06E-1	ug/g dry	8.58E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.22E-2	ug/g dry	8.79E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.84E-2	ug/g dry	2.84E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	8.61E0	ug/g dry	3.87E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES

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

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**			
7439-89-6	Iron	1.54E-1	ug/g dry	1.42E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	2.52E0	ug/g dry	2.33E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.56E0	ug/g dry	8.34E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.33E-2	ug/g dry	9.33E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	9.20E0	ug/g dry	6.69E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**			
7429-90-5	Aluminum	3.32E-1	ug/g dry	8.57E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.90E-2	ug/g dry	8.78E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.84E-2	ug/g dry	2.84E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.42E1	ug/g dry	3.87E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.42E-1	ug/g dry	1.42E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	2.55E0	ug/g dry	2.33E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.53E0	ug/g dry	8.33E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.32E-2	ug/g dry	9.32E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	6.87E0	ug/g dry	6.68E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**			
7429-90-5	Aluminum	1.84E-1	ug/g dry	8.60E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.33E-2	ug/g dry	8.81E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.85E-2	ug/g dry	2.85E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	8.91E0	ug/g dry	3.88E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.43E-1	ug/g dry	1.43E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	3.67E0	ug/g dry	2.33E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.67E0	ug/g dry	8.36E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.72E-2	ug/g dry	1.72E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.35E-2	ug/g dry	9.35E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	9.56E0	ug/g dry	6.71E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**			
7429-90-5	Aluminum	2.44E-1	ug/g dry	8.60E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.33E-2	ug/g dry	8.81E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.85E-2	ug/g dry	2.85E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.06E1	ug/g dry	3.88E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.44E-1	ug/g dry	1.43E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	3.84E0	ug/g dry	2.33E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.63E0	ug/g dry	8.36E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.72E-2	ug/g dry	1.72E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.35E-2	ug/g dry	9.35E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	9.56E0	ug/g dry	6.71E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**			
7429-90-5	Aluminum	3.42E-1	ug/g dry	8.55E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.69E-2	ug/g dry	8.75E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.83E-2	ug/g dry	2.83E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.21E1	ug/g dry	3.85E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.42E-1	ug/g dry	1.42E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	4.35E0	ug/g dry	2.32E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.87E0	ug/g dry	8.31E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES

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

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**			
7440-02-0	Nickel	<9.29E-2	ug/g dry	9.29E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	9.24E0	ug/g dry	6.66E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**			
7429-90-5	Aluminum	2.84E-1	ug/g dry	8.57E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.66E-2	ug/g dry	8.78E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.84E-2	ug/g dry	2.84E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.09E1	ug/g dry	3.86E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	2.08E-1	ug/g dry	1.42E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	6.14E0	ug/g dry	2.32E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.72E0	ug/g dry	8.33E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.32E-2	ug/g dry	9.32E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.62E1	ug/g dry	6.68E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**			
7429-90-5	Aluminum	4.77E-1	ug/g dry	8.58E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	2.13E-2	ug/g dry	8.79E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.84E-2	ug/g dry	2.84E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.38E1	ug/g dry	3.87E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.58E-1	ug/g dry	1.42E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	5.98E0	ug/g dry	2.33E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.01E0	ug/g dry	8.34E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.33E-2	ug/g dry	9.33E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.11E1	ug/g dry	6.69E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**			
7429-90-5	Aluminum	1.98E-1	ug/g dry	8.61E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	3.00E-2	ug/g dry	8.82E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.85E-2	ug/g dry	2.85E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	2.02E1	ug/g dry	3.88E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.43E-1	ug/g dry	1.43E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	9.07E0	ug/g dry	2.34E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.07E0	ug/g dry	8.37E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.72E-2	ug/g dry	1.72E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.36E-2	ug/g dry	9.36E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.26E1	ug/g dry	6.71E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**			
7429-90-5	Aluminum	2.79E-1	ug/g dry	8.56E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.28E-2	ug/g dry	8.77E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.84E-2	ug/g dry	2.84E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	9.86E0	ug/g dry	3.86E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.72E-1	ug/g dry	1.42E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	6.26E0	ug/g dry	2.32E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.16E0	ug/g dry	8.32E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.31E-2	ug/g dry	9.31E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.73E1	ug/g dry	6.68E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**			
7429-90-5	Aluminum	3.66E-1	ug/g dry	8.56E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES

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

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**			
7440-39-3	Barium	2.01E-2	ug/g dry	8.77E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.83E-2	ug/g dry	2.83E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.03E1	ug/g dry	3.86E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	2.16E-1	ug/g dry	1.42E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	5.71E0	ug/g dry	2.32E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.47E0	ug/g dry	8.32E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.30E-2	ug/g dry	9.30E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.33E1	ug/g dry	6.67E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**			
7429-90-5	Aluminum	3.56E-1	ug/g dry	8.57E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	3.30E-2	ug/g dry	8.78E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.84E-2	ug/g dry	2.84E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	1.21E1	ug/g dry	3.87E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.54E-1	ug/g dry	1.42E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	5.31E0	ug/g dry	2.33E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.26E0	ug/g dry	8.33E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.71E-2	ug/g dry	1.71E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.32E-2	ug/g dry	9.32E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.21E1	ug/g dry	6.68E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**			
7429-90-5	Aluminum	2.58E-1	ug/g dry	8.73E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.98E-2	ug/g dry	8.95E-3	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	<2.89E-2	ug/g dry	2.89E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.69E0	ug/g dry	3.94E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-89-6	Iron	<1.45E-1	ug/g dry	1.45E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-09-7	Potassium	4.06E0	ug/g dry	2.37E0	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.69E0	ug/g dry	8.49E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7439-96-5	Manganese	<1.74E-2	ug/g dry	1.74E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-02-0	Nickel	<9.50E-2	ug/g dry	9.50E-2	10/14/08	8J13003	PNNL-AGG-ICP-AES
7440-23-5	Sodium	9.72E0	ug/g dry	6.81E-1	10/14/08	8J13003	PNNL-AGG-ICP-AES

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

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**			
7429-90-5	Aluminum	5.72E3	ug/g dry	2.37E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	6.03E1	ug/g dry	2.26E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	7.37E-2	ug/g dry	4.49E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	4.95E3	ug/g dry	8.81E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.91E4	ug/g dry	6.02E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	7.64E2	ug/g dry	5.59E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.45E3	ug/g dry	1.86E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.43E2	ug/g dry	7.05E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	7.23E0	ug/g dry	4.85E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	6.83E2	ug/g dry	6.32E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**			
7429-90-5	Aluminum	5.92E3	ug/g dry	2.40E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	1.70E1	ug/g dry	2.28E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	1.47E-1	ug/g dry	4.54E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	2.14E3	ug/g dry	8.91E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.26E4	ug/g dry	6.09E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	4.15E2	ug/g dry	5.66E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.32E3	ug/g dry	1.89E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	1.23E2	ug/g dry	7.14E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	7.84E0	ug/g dry	4.90E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.22E2	ug/g dry	6.39E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**			
7429-90-5	Aluminum	5.61E3	ug/g dry	2.33E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	2.97E1	ug/g dry	2.22E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	1.53E-1	ug/g dry	4.41E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	9.64E3	ug/g dry	8.66E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.30E4	ug/g dry	5.92E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	5.03E2	ug/g dry	5.50E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.01E3	ug/g dry	1.83E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	1.95E2	ug/g dry	6.94E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	8.40E0	ug/g dry	4.77E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.64E2	ug/g dry	6.21E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**			
7429-90-5	Aluminum	6.73E3	ug/g dry	2.36E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	3.50E1	ug/g dry	2.25E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	2.02E-1	ug/g dry	4.48E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	5.48E3	ug/g dry	8.78E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.37E4	ug/g dry	6.01E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	6.17E2	ug/g dry	5.58E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	3.93E3	ug/g dry	1.86E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	1.73E2	ug/g dry	7.04E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	9.64E0	ug/g dry	4.83E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.74E2	ug/g dry	6.30E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**			
7429-90-5	Aluminum	5.17E3	ug/g dry	2.30E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.15E1	ug/g dry	2.19E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	1.46E-1	ug/g dry	4.36E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	8.96E3	ug/g dry	8.56E0	10/15/08	8J13005	PNNL-AGG-ICP-AES

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

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**			
7439-89-6	Iron	1.37E4	ug/g dry	5.85E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.76E2	ug/g dry	5.43E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.34E3	ug/g dry	1.81E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.35E2	ug/g dry	6.85E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	9.05E0	ug/g dry	4.71E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.46E2	ug/g dry	6.14E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**			
7429-90-5	Aluminum	5.74E3	ug/g dry	2.37E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.39E1	ug/g dry	2.26E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	1.85E-1	ug/g dry	4.48E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	7.87E3	ug/g dry	8.80E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.22E4	ug/g dry	6.02E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.42E3	ug/g dry	5.59E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.22E3	ug/g dry	1.86E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.51E2	ug/g dry	7.05E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	1.04E1	ug/g dry	4.84E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.26E2	ug/g dry	6.31E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**			
7429-90-5	Aluminum	5.74E3	ug/g dry	2.30E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	6.11E1	ug/g dry	2.19E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	1.38E-1	ug/g dry	4.35E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	8.06E3	ug/g dry	8.55E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.44E4	ug/g dry	5.84E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.09E3	ug/g dry	5.43E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.74E3	ug/g dry	1.81E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.87E2	ug/g dry	6.85E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	1.18E1	ug/g dry	4.70E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.74E2	ug/g dry	6.13E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**			
7429-90-5	Aluminum	5.78E3	ug/g dry	2.33E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.53E1	ug/g dry	2.22E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	1.63E-1	ug/g dry	4.41E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	7.89E3	ug/g dry	8.65E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.28E4	ug/g dry	5.92E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.21E3	ug/g dry	5.49E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.57E3	ug/g dry	1.83E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.61E2	ug/g dry	6.93E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	1.12E1	ug/g dry	4.76E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.56E2	ug/g dry	6.21E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**			
7429-90-5	Aluminum	5.45E3	ug/g dry	2.32E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	4.95E1	ug/g dry	2.21E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	1.37E-1	ug/g dry	4.40E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	7.36E3	ug/g dry	8.63E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.22E4	ug/g dry	5.90E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.09E3	ug/g dry	5.48E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.31E3	ug/g dry	1.83E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.44E2	ug/g dry	6.91E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES

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

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**			
7440-02-0	Nickel	1.16E1	ug/g dry	4.75E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.51E2	ug/g dry	6.19E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**			
7429-90-5	Aluminum	5.31E3	ug/g dry	2.39E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.00E1	ug/g dry	2.27E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	9.35E-2	ug/g dry	4.52E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.02E3	ug/g dry	8.87E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.37E4	ug/g dry	6.07E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	9.85E2	ug/g dry	5.63E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.19E3	ug/g dry	1.88E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.33E2	ug/g dry	7.11E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	1.25E1	ug/g dry	4.88E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.26E2	ug/g dry	6.36E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**			
7429-90-5	Aluminum	5.68E3	ug/g dry	2.33E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.14E1	ug/g dry	2.22E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	1.43E-1	ug/g dry	4.41E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.56E3	ug/g dry	8.66E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.55E4	ug/g dry	5.92E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.01E3	ug/g dry	5.50E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.49E3	ug/g dry	1.83E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.44E2	ug/g dry	6.94E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	1.44E1	ug/g dry	4.77E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.87E2	ug/g dry	6.21E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**			
7429-90-5	Aluminum	7.03E3	ug/g dry	2.39E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	7.82E1	ug/g dry	2.28E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	2.14E-1	ug/g dry	4.53E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	9.50E3	ug/g dry	8.89E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	2.03E4	ug/g dry	6.08E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.67E3	ug/g dry	5.64E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.82E3	ug/g dry	1.88E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	3.26E2	ug/g dry	7.12E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	1.23E1	ug/g dry	4.89E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.17E2	ug/g dry	6.37E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**			
7429-90-5	Aluminum	6.36E3	ug/g dry	2.34E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.75E1	ug/g dry	2.23E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	1.04E-1	ug/g dry	4.43E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.29E3	ug/g dry	8.69E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.56E4	ug/g dry	5.94E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.16E3	ug/g dry	5.52E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.30E3	ug/g dry	1.84E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.64E2	ug/g dry	6.96E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	1.05E1	ug/g dry	4.78E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	3.04E2	ug/g dry	6.23E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**			
7429-90-5	Aluminum	6.33E3	ug/g dry	2.34E0	10/15/08	8J13005	PNNL-AGG-ICP-AES

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

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**			
7440-39-3	Barium	6.47E1	ug/g dry	2.23E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	1.05E-1	ug/g dry	4.43E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	6.93E3	ug/g dry	8.69E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.47E4	ug/g dry	5.94E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	1.18E3	ug/g dry	5.52E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	4.02E3	ug/g dry	1.84E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.59E2	ug/g dry	6.96E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	8.08E0	ug/g dry	4.78E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.95E2	ug/g dry	6.23E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**			
7429-90-5	Aluminum	5.91E3	ug/g dry	2.35E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	6.13E1	ug/g dry	2.24E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	7.43E-2	ug/g dry	4.45E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	4.21E3	ug/g dry	8.73E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.52E4	ug/g dry	5.97E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.86E2	ug/g dry	5.54E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	5.21E3	ug/g dry	1.85E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.63E2	ug/g dry	6.99E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	2.58E1	ug/g dry	4.81E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	3.56E2	ug/g dry	6.26E1	10/15/08	8J13005	PNNL-AGG-ICP-AES
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**			
7429-90-5	Aluminum	4.46E3	ug/g dry	2.50E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-39-3	Barium	5.27E1	ug/g dry	2.38E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-41-7	Beryllium	5.62E-2	ug/g dry	4.72E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-70-2	Calcium	3.69E3	ug/g dry	9.27E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-89-6	Iron	1.22E4	ug/g dry	6.34E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-09-7	Potassium	7.45E2	ug/g dry	5.88E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.82E3	ug/g dry	1.96E0	10/15/08	8J13005	PNNL-AGG-ICP-AES
7439-96-5	Manganese	2.03E2	ug/g dry	7.43E-2	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-02-0	Nickel	7.61E0	ug/g dry	5.10E-1	10/15/08	8J13005	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.94E2	ug/g dry	6.65E1	10/15/08	8J13005	PNNL-AGG-ICP-AES

Radionuclides by ICP-MS/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**			
15117-48-3	Plutonium-239	1.43E-1	ug/g dry	7.68E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**			
15117-48-3	Plutonium-239	<7.77E-3	ug/g dry	7.77E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**			
15117-48-3	Plutonium-239	<7.55E-3	ug/g dry	7.55E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**			
15117-48-3	Plutonium-239	<7.66E-3	ug/g dry	7.66E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**			
15117-48-3	Plutonium-239	<7.46E-3	ug/g dry	7.46E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**			
15117-48-3	Plutonium-239	<7.67E-3	ug/g dry	7.67E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**			
15117-48-3	Plutonium-239	<7.45E-3	ug/g dry	7.45E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**			
15117-48-3	Plutonium-239	<7.54E-3	ug/g dry	7.54E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**			
15117-48-3	Plutonium-239	<7.52E-3	ug/g dry	7.52E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**			
15117-48-3	Plutonium-239	<7.73E-3	ug/g dry	7.73E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**			
15117-48-3	Plutonium-239	<7.55E-3	ug/g dry	7.55E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**			
15117-48-3	Plutonium-239	<7.75E-3	ug/g dry	7.75E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**			
15117-48-3	Plutonium-239	<7.57E-3	ug/g dry	7.57E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**			
15117-48-3	Plutonium-239	<7.57E-3	ug/g dry	7.57E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**			
15117-48-3	Plutonium-239	<7.61E-3	ug/g dry	7.61E-3	10/28/08	8J28001	PNNL-AGG-415
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**			
15117-48-3	Plutonium-239	<8.08E-3	ug/g dry	8.08E-3	10/28/08	8J28001	PNNL-AGG-415

Radionuclides by ICP-MS/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**			
14133-76-7	Technetium-99	<4.00E-3	ug/g dry	4.00E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	1.62E0	ug/g dry	2.90E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**			
14133-76-7	Technetium-99	<4.04E-3	ug/g dry	4.04E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	5.04E0	ug/g dry	2.94E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**			
14133-76-7	Technetium-99	<3.93E-3	ug/g dry	3.93E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	3.16E0	ug/g dry	2.85E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**			
14133-76-7	Technetium-99	<3.99E-3	ug/g dry	3.99E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	1.96E0	ug/g dry	2.90E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**			
14133-76-7	Technetium-99	<3.88E-3	ug/g dry	3.88E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	6.26E-1	ug/g dry	2.82E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**			
14133-76-7	Technetium-99	<4.00E-3	ug/g dry	4.00E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	6.34E-1	ug/g dry	2.90E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**			
14133-76-7	Technetium-99	<3.88E-3	ug/g dry	3.88E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	7.30E-1	ug/g dry	2.82E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**			
14133-76-7	Technetium-99	<3.93E-3	ug/g dry	3.93E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	4.23E-1	ug/g dry	2.85E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**			
14133-76-7	Technetium-99	<3.92E-3	ug/g dry	3.92E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	3.77E-1	ug/g dry	2.84E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**			
14133-76-7	Technetium-99	<4.03E-3	ug/g dry	4.03E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	3.29E-1	ug/g dry	2.92E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**			
14133-76-7	Technetium-99	<3.93E-3	ug/g dry	3.93E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	3.39E-1	ug/g dry	2.86E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**			
14133-76-7	Technetium-99	<4.03E-3	ug/g dry	4.03E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	4.78E-1	ug/g dry	2.93E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**			
14133-76-7	Technetium-99	<3.94E-3	ug/g dry	3.94E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	3.33E-1	ug/g dry	2.86E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**			
14133-76-7	Technetium-99	<3.94E-3	ug/g dry	3.94E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	3.03E-1	ug/g dry	2.86E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**			
14133-76-7	Technetium-99	<3.96E-3	ug/g dry	3.96E-3	10/06/08	8J06003	PNNL-AGG-415
	Uranium 238	4.55E-1	ug/g dry	2.88E-2	10/06/08	8J06003	PNNL-AGG-415
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**			
14133-76-7	Technetium-99	<4.21E-3	ug/g dry	4.21E-3	10/06/08	8J06003	PNNL-AGG-415

Radionuclides by ICP-MS/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**			
	Uranium 238	3.77E-1	ug/g dry	3.05E-2	10/06/08	8J06003	PNNL-AGG-415

Radionuclides by ICP-MS/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**			
15046-84-1	Iodine-129	1.32E-3	ug/g dry	3.77E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**			
15046-84-1	Iodine-129	3.45E-3	ug/g dry	3.78E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**			
15046-84-1	Iodine-129	8.62E-4	ug/g dry	3.77E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**			
15046-84-1	Iodine-129	2.09E-3	ug/g dry	3.78E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**			
15046-84-1	Iodine-129	1.04E-3	ug/g dry	3.78E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**			
15046-84-1	Iodine-129	<3.77E-4	ug/g dry	3.77E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**			
15046-84-1	Iodine-129	<3.78E-4	ug/g dry	3.78E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**			
15046-84-1	Iodine-129	<3.78E-4	ug/g dry	3.78E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**			
15046-84-1	Iodine-129	<3.76E-4	ug/g dry	3.76E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**			
15046-84-1	Iodine-129	<3.77E-4	ug/g dry	3.77E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**			
15046-84-1	Iodine-129	<3.77E-4	ug/g dry	3.77E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**			
15046-84-1	Iodine-129	<3.79E-4	ug/g dry	3.79E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**			
15046-84-1	Iodine-129	<3.77E-4	ug/g dry	3.77E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**			
15046-84-1	Iodine-129	<3.76E-4	ug/g dry	3.76E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**			
15046-84-1	Iodine-129	<3.77E-4	ug/g dry	3.77E-4	11/10/08	8J30011	PNNL-AGG-415
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**			
15046-84-1	Iodine-129	<3.84E-4	ug/g dry	3.84E-4	11/10/08	8J30011	PNNL-AGG-415

Radionuclides by ICP-MS/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**			
15117-48-3	Plutonium-239	5.57E-5	ug/g dry	3.99E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**			
15117-48-3	Plutonium-239	<4.01E-5	ug/g dry	4.01E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**			
15117-48-3	Plutonium-239	<4.00E-5	ug/g dry	4.00E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**			
15117-48-3	Plutonium-239	<4.00E-5	ug/g dry	4.00E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**			
15117-48-3	Plutonium-239	<4.00E-5	ug/g dry	4.00E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**			
15117-48-3	Plutonium-239	<4.00E-5	ug/g dry	4.00E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**			
15117-48-3	Plutonium-239	<4.01E-5	ug/g dry	4.01E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**			
15117-48-3	Plutonium-239	<4.01E-5	ug/g dry	4.01E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**			
15117-48-3	Plutonium-239	<3.98E-5	ug/g dry	3.98E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**			
15117-48-3	Plutonium-239	<3.99E-5	ug/g dry	3.99E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**			
15117-48-3	Plutonium-239	<4.00E-5	ug/g dry	4.00E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**			
15117-48-3	Plutonium-239	<4.01E-5	ug/g dry	4.01E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**			
15117-48-3	Plutonium-239	<3.99E-5	ug/g dry	3.99E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**			
15117-48-3	Plutonium-239	<3.99E-5	ug/g dry	3.99E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**			
15117-48-3	Plutonium-239	<4.00E-5	ug/g dry	4.00E-5	10/27/08	8J27004	PNNL-AGG-415
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**			
15117-48-3	Plutonium-239	<4.07E-5	ug/g dry	4.07E-5	10/27/08	8J27004	PNNL-AGG-415

Radionuclides by ICP-MS/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	1.01E-2	ug/g dry	5.63E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	2.57E-3	ug/g dry	5.64E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	7.00E-3	ug/g dry	5.63E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	8.85E-3	ug/g dry	5.64E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	8.11E-4	ug/g dry	5.64E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	7.17E-4	ug/g dry	5.63E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**			
14133-76-7	Technetium-99	<2.31E-5	ug/g dry	2.31E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	8.78E-4	ug/g dry	5.65E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**			
14133-76-7	Technetium-99	<2.31E-5	ug/g dry	2.31E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	<5.65E-4	ug/g dry	5.65E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**			
14133-76-7	Technetium-99	<2.29E-5	ug/g dry	2.29E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	<5.61E-4	ug/g dry	5.61E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	<5.63E-4	ug/g dry	5.63E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	<5.63E-4	ug/g dry	5.63E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**			
14133-76-7	Technetium-99	<2.31E-5	ug/g dry	2.31E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	<5.65E-4	ug/g dry	5.65E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	<5.62E-4	ug/g dry	5.62E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**			
14133-76-7	Technetium-99	<2.29E-5	ug/g dry	2.29E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	<5.62E-4	ug/g dry	5.62E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**			
14133-76-7	Technetium-99	<2.30E-5	ug/g dry	2.30E-5	10/06/08	8J06001	PNNL-AGG-415
	Uranium 238	<5.63E-4	ug/g dry	5.63E-4	10/06/08	8J06001	PNNL-AGG-415
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**			
14133-76-7	Technetium-99	<2.34E-5	ug/g dry	2.34E-5	10/06/08	8J06001	PNNL-AGG-415

Radionuclides by ICP-MS/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**			
	Uranium 238	<5.74E-4	ug/g dry	5.74E-4	10/06/08	8J06001	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**			
14092-98-9	Chromium	<2.05E-3	ug/g dry	2.05E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	3.68E-3	ug/g dry	3.48E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	1.64E-2	ug/g dry	6.24E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.24E-4	ug/g dry	9.24E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	<5.39E-4	ug/g dry	5.39E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.59E-4	ug/g dry	5.59E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**			
14092-98-9	Chromium	<2.06E-3	ug/g dry	2.06E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.49E-3	ug/g dry	3.49E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	2.69E-2	ug/g dry	6.26E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.11E-2	ug/g dry	1.11E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.27E-4	ug/g dry	9.27E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	<5.41E-4	ug/g dry	5.41E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	7.29E-4	ug/g dry	5.61E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**			
14092-98-9	Chromium	<2.05E-3	ug/g dry	2.05E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.48E-3	ug/g dry	3.48E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	7.41E-3	ug/g dry	6.25E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.25E-4	ug/g dry	9.25E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	<5.40E-4	ug/g dry	5.40E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.60E-4	ug/g dry	5.60E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**			
14092-98-9	Chromium	<2.06E-3	ug/g dry	2.06E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	4.21E-3	ug/g dry	3.48E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	<6.25E-3	ug/g dry	6.25E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.11E-2	ug/g dry	1.11E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.25E-4	ug/g dry	9.25E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	<5.40E-4	ug/g dry	5.40E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.60E-4	ug/g dry	5.60E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**			
14092-98-9	Chromium	<2.06E-3	ug/g dry	2.06E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.48E-3	ug/g dry	3.48E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	<6.25E-3	ug/g dry	6.25E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.11E-2	ug/g dry	1.11E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.25E-4	ug/g dry	9.25E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	<5.40E-4	ug/g dry	5.40E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.60E-4	ug/g dry	5.60E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**			
14092-98-9	Chromium	<2.05E-3	ug/g dry	2.05E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.48E-3	ug/g dry	3.48E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	1.16E-2	ug/g dry	6.24E-3	10/08/08	8J08001	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**			
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.24E-4	ug/g dry	9.24E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	<5.39E-4	ug/g dry	5.39E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.59E-4	ug/g dry	5.59E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**			
14092-98-9	Chromium	<2.06E-3	ug/g dry	2.06E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.49E-3	ug/g dry	3.49E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	6.47E-3	ug/g dry	6.27E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.11E-2	ug/g dry	1.11E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.27E-4	ug/g dry	9.27E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	<2.96E-4	ug/g dry	2.96E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	1.94E-3	ug/g dry	5.41E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.61E-4	ug/g dry	5.61E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**			
14092-98-9	Chromium	<2.06E-3	ug/g dry	2.06E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.49E-3	ug/g dry	3.49E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	1.39E-2	ug/g dry	6.26E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.11E-2	ug/g dry	1.11E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.27E-4	ug/g dry	9.27E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	<2.96E-4	ug/g dry	2.96E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	<5.41E-4	ug/g dry	5.41E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.61E-4	ug/g dry	5.61E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**			
14092-98-9	Chromium	<2.05E-3	ug/g dry	2.05E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.47E-3	ug/g dry	3.47E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	7.87E-3	ug/g dry	6.23E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.21E-4	ug/g dry	9.21E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	<2.94E-4	ug/g dry	2.94E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	<5.38E-4	ug/g dry	5.38E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.58E-4	ug/g dry	5.58E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**			
14092-98-9	Chromium	<2.05E-3	ug/g dry	2.05E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.48E-3	ug/g dry	3.48E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	<6.24E-3	ug/g dry	6.24E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.24E-4	ug/g dry	9.24E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	1.61E-3	ug/g dry	5.39E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.59E-4	ug/g dry	5.59E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**			
14092-98-9	Chromium	<2.05E-3	ug/g dry	2.05E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.48E-3	ug/g dry	3.48E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	<6.25E-3	ug/g dry	6.25E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.25E-4	ug/g dry	9.25E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	5.43E-4	ug/g dry	2.95E-4	10/08/08	8J08001	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415/Water Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**			
14265-72-6	Antimony	7.69E-4	ug/g dry	5.40E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.60E-4	ug/g dry	5.60E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**			
14092-98-9	Chromium	<2.06E-3	ug/g dry	2.06E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.49E-3	ug/g dry	3.49E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	<6.27E-3	ug/g dry	6.27E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.11E-2	ug/g dry	1.11E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.28E-4	ug/g dry	9.28E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	5.46E-4	ug/g dry	2.96E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	6.77E-3	ug/g dry	5.42E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.62E-4	ug/g dry	5.62E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**			
14092-98-9	Chromium	<2.05E-3	ug/g dry	2.05E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.47E-3	ug/g dry	3.47E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	<6.24E-3	ug/g dry	6.24E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.23E-4	ug/g dry	9.23E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	<2.94E-4	ug/g dry	2.94E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	1.36E-3	ug/g dry	5.39E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.59E-4	ug/g dry	5.59E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**			
14092-98-9	Chromium	<2.05E-3	ug/g dry	2.05E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.47E-3	ug/g dry	3.47E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	6.51E-3	ug/g dry	6.23E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.22E-4	ug/g dry	9.22E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	<2.94E-4	ug/g dry	2.94E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	<5.39E-4	ug/g dry	5.39E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.58E-4	ug/g dry	5.58E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**			
14092-98-9	Chromium	<2.05E-3	ug/g dry	2.05E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.48E-3	ug/g dry	3.48E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	<6.24E-3	ug/g dry	6.24E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.10E-2	ug/g dry	1.10E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.24E-4	ug/g dry	9.24E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	<2.95E-4	ug/g dry	2.95E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	8.16E-4	ug/g dry	5.39E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.59E-4	ug/g dry	5.59E-4	10/08/08	8J08001	PNNL-AGG-415
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**			
14092-98-9	Chromium	<2.09E-3	ug/g dry	2.09E-3	10/08/08	8J08001	PNNL-AGG-415
14191-84-5	Copper	<3.54E-3	ug/g dry	3.54E-3	10/08/08	8J08001	PNNL-AGG-415
7440-38-2	Arsenic	<6.36E-3	ug/g dry	6.36E-3	10/08/08	8J08001	PNNL-AGG-415
14687-58-2	Selenium	<1.12E-2	ug/g dry	1.12E-2	10/08/08	8J08001	PNNL-AGG-415
14378-37-1	Silver	<9.42E-4	ug/g dry	9.42E-4	10/08/08	8J08001	PNNL-AGG-415
14336-64-2	Cadmium	3.11E-4	ug/g dry	3.00E-4	10/08/08	8J08001	PNNL-AGG-415
14265-72-6	Antimony	2.38E-3	ug/g dry	5.50E-4	10/08/08	8J08001	PNNL-AGG-415
13966-28-4	Lead	<5.70E-4	ug/g dry	5.70E-4	10/08/08	8J08001	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**			
15756-10-2	Mercury	1.13E1	ug/g dry	4.39E-1	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**			
15756-10-2	Mercury	4.53E0	ug/g dry	4.45E-1	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**			
15756-10-2	Mercury	4.91E0	ug/g dry	4.32E-1	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**			
15756-10-2	Mercury	3.53E0	ug/g dry	4.38E-1	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**			
15756-10-2	Mercury	1.22E-1	ug/g dry	4.27E-2	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**			
15756-10-2	Mercury	<4.39E-2	ug/g dry	4.39E-2	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**			
15756-10-2	Mercury	<4.26E-2	ug/g dry	4.26E-2	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**			
15756-10-2	Mercury	<4.32E-2	ug/g dry	4.32E-2	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**			
15756-10-2	Mercury	<4.31E-2	ug/g dry	4.31E-2	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**			
15756-10-2	Mercury	<4.43E-2	ug/g dry	4.43E-2	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**			
15756-10-2	Mercury	<4.32E-2	ug/g dry	4.32E-2	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**			
15756-10-2	Mercury	<4.43E-2	ug/g dry	4.43E-2	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**			
15756-10-2	Mercury	<4.34E-2	ug/g dry	4.34E-2	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**			
15756-10-2	Mercury	<4.33E-2	ug/g dry	4.33E-2	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**			
15756-10-2	Mercury	<4.36E-2	ug/g dry	4.36E-2	10/13/08	8J13002	PNNL-AGG-415
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**			
15756-10-2	Mercury	<4.62E-2	ug/g dry	4.62E-2	10/13/08	8J13002	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**			
14092-98-9	Chromium	8.19E0	ug/g dry	1.83E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	1.13E1	ug/g dry	6.48E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	1.65E0	ug/g dry	4.03E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.10E0	ug/g dry	1.10E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.68E-2	ug/g dry	6.68E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	<4.74E-2	ug/g dry	4.74E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	<7.66E-2	ug/g dry	7.66E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	1.99E0	ug/g dry	3.56E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**			
14092-98-9	Chromium	7.36E0	ug/g dry	1.86E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	6.21E0	ug/g dry	6.56E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	2.79E0	ug/g dry	4.08E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.11E0	ug/g dry	1.11E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.76E-2	ug/g dry	6.76E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	<4.79E-2	ug/g dry	4.79E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	<7.75E-2	ug/g dry	7.75E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	2.85E0	ug/g dry	3.60E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**			
14092-98-9	Chromium	8.47E0	ug/g dry	1.80E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	6.88E0	ug/g dry	6.37E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	2.49E0	ug/g dry	3.96E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.08E0	ug/g dry	1.08E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.57E-2	ug/g dry	6.57E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	9.47E-2	ug/g dry	4.66E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	8.37E-2	ug/g dry	7.53E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	2.82E0	ug/g dry	3.50E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**			
14092-98-9	Chromium	9.20E0	ug/g dry	1.83E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	7.34E0	ug/g dry	6.47E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	2.21E0	ug/g dry	4.02E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.10E0	ug/g dry	1.10E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.67E-2	ug/g dry	6.67E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	5.71E-2	ug/g dry	4.72E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	7.76E-2	ug/g dry	7.64E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	3.12E0	ug/g dry	3.55E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**			
14092-98-9	Chromium	1.81E1	ug/g dry	1.78E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	8.48E0	ug/g dry	6.30E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	2.55E0	ug/g dry	3.92E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.07E0	ug/g dry	1.07E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.50E-2	ug/g dry	6.50E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	4.83E-2	ug/g dry	4.60E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	1.22E-1	ug/g dry	7.44E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	3.11E0	ug/g dry	3.46E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**			
14092-98-9	Chromium	1.04E1	ug/g dry	1.83E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	8.54E0	ug/g dry	6.48E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	4.15E0	ug/g dry	4.03E-1	10/09/08	8J09001	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**			
14687-58-2	Selenium	<1.10E0	ug/g dry	1.10E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.68E-2	ug/g dry	6.68E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	6.87E-2	ug/g dry	4.73E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	1.38E-1	ug/g dry	7.65E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	3.62E0	ug/g dry	3.56E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**			
14092-98-9	Chromium	1.24E1	ug/g dry	1.78E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	9.56E0	ug/g dry	6.29E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	2.47E0	ug/g dry	3.91E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.07E0	ug/g dry	1.07E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.49E-2	ug/g dry	6.49E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	6.14E-2	ug/g dry	4.60E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	1.54E-1	ug/g dry	7.43E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	2.59E0	ug/g dry	3.46E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**			
14092-98-9	Chromium	1.09E1	ug/g dry	1.80E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	9.16E0	ug/g dry	6.37E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	3.92E0	ug/g dry	3.96E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.08E0	ug/g dry	1.08E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.57E-2	ug/g dry	6.57E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	5.52E-2	ug/g dry	4.66E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	1.27E-1	ug/g dry	7.53E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	2.97E0	ug/g dry	3.50E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**			
14092-98-9	Chromium	1.09E1	ug/g dry	1.80E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	8.79E0	ug/g dry	6.35E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	2.42E0	ug/g dry	3.95E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.08E0	ug/g dry	1.08E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.55E-2	ug/g dry	6.55E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	5.23E-2	ug/g dry	4.64E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	9.08E-2	ug/g dry	7.50E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	2.75E0	ug/g dry	3.49E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**			
14092-98-9	Chromium	1.32E1	ug/g dry	1.85E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	9.33E0	ug/g dry	6.53E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	2.03E0	ug/g dry	4.06E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.11E0	ug/g dry	1.11E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.73E-2	ug/g dry	6.73E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	4.78E-2	ug/g dry	4.77E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	1.15E-1	ug/g dry	7.72E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	2.17E0	ug/g dry	3.59E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**			
14092-98-9	Chromium	2.98E1	ug/g dry	1.80E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	8.96E0	ug/g dry	6.38E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	2.05E0	ug/g dry	3.97E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.08E0	ug/g dry	1.08E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.58E-2	ug/g dry	6.58E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	6.83E-2	ug/g dry	4.66E-2	10/09/08	8J09001	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415/Acid Extract

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**			
14265-72-6	Antimony	1.42E-1	ug/g dry	7.53E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	2.24E0	ug/g dry	3.50E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**			
14092-98-9	Chromium	4.34E1	ug/g dry	1.85E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	1.12E1	ug/g dry	6.54E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	3.46E0	ug/g dry	4.07E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.11E0	ug/g dry	1.11E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.75E-2	ug/g dry	6.75E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	9.28E-2	ug/g dry	4.78E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	5.14E-1	ug/g dry	7.73E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	4.20E0	ug/g dry	3.59E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**			
14092-98-9	Chromium	1.13E1	ug/g dry	1.81E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	1.08E1	ug/g dry	6.40E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	1.47E0	ug/g dry	3.98E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.09E0	ug/g dry	1.09E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.60E-2	ug/g dry	6.60E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	5.49E-2	ug/g dry	4.67E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	9.59E-2	ug/g dry	7.56E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	3.24E0	ug/g dry	3.51E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**			
14092-98-9	Chromium	8.44E0	ug/g dry	1.81E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	9.44E0	ug/g dry	6.40E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	1.32E0	ug/g dry	3.98E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.09E0	ug/g dry	1.09E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.60E-2	ug/g dry	6.60E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	<4.67E-2	ug/g dry	4.67E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	<7.56E-2	ug/g dry	7.56E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	2.19E0	ug/g dry	3.51E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**			
14092-98-9	Chromium	3.04E1	ug/g dry	1.82E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	1.67E1	ug/g dry	6.43E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	9.56E-1	ug/g dry	4.00E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.09E0	ug/g dry	1.09E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<6.63E-2	ug/g dry	6.63E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	<4.70E-2	ug/g dry	4.70E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	9.00E-2	ug/g dry	7.59E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	2.12E0	ug/g dry	3.53E-2	10/09/08	8J09001	PNNL-AGG-415
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**			
14092-98-9	Chromium	1.84E1	ug/g dry	1.93E-1	10/09/08	8J09001	PNNL-AGG-415
14191-84-5	Copper	1.11E1	ug/g dry	6.82E-1	10/09/08	8J09001	PNNL-AGG-415
7440-38-2	Arsenic	5.30E-1	ug/g dry	4.24E-1	10/09/08	8J09001	PNNL-AGG-415
14687-58-2	Selenium	<1.16E0	ug/g dry	1.16E0	10/09/08	8J09001	PNNL-AGG-415
14378-37-1	Silver	<7.04E-2	ug/g dry	7.04E-2	10/09/08	8J09001	PNNL-AGG-415
14336-64-2	Cadmium	<4.99E-2	ug/g dry	4.99E-2	10/09/08	8J09001	PNNL-AGG-415
14265-72-6	Antimony	8.70E-2	ug/g dry	8.06E-2	10/09/08	8J09001	PNNL-AGG-415
13966-28-4	Lead	2.10E0	ug/g dry	3.75E-2	10/09/08	8J09001	PNNL-AGG-415

Carbon Analysis/Soil

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

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0807001-01	B1VJ77	3.68E2	2.00E2	10/15/08	[CALC]
0807001-02	B1VJ78	3.78E2	2.00E2	10/15/08	[CALC]
0807001-04	B1VJ80	<2.00E2	2.00E2	10/15/08	[CALC]
0807001-06	B1VJ82	7.66E2	2.00E2	10/15/08	[CALC]
0807001-10	B1VJ86	<2.00E2	2.00E2	10/15/08	[CALC]
0807001-15	B1VJ91	<2.00E2	2.00E2	10/15/08	[CALC]
0807001-20	B1VJ96	<2.00E2	2.00E2	10/15/08	[CALC]
0807001-24	B1VJB0	<2.00E2	2.00E2	10/15/08	[CALC]
0807001-26	B1VJB8	<2.00E2	2.00E2	10/15/08	[CALC]
0807001-29	B1VJC1	3.45E2	2.00E2	10/15/08	[CALC]
0807001-34	B1VJC6	2.07E2	2.00E2	10/16/08	[CALC]
0807001-42	B1VJD1	<2.00E2	2.00E2	10/16/08	[CALC]
0807001-50	B1VJD6	<2.00E2	2.00E2	10/16/08	[CALC]
0807001-53	B1X2C4	<2.00E2	2.00E2	10/16/08	[CALC]
0807001-57	B1X2C8	2.94E2	2.00E2	10/16/08	[CALC]
0807001-58	B1X2C9	<2.00E2	2.00E2	10/16/08	[CALC]

Carbon Analysis/Soil

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

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0807001-01	B1VJ77	6.76E2	2.00E2	10/13/08	8J13006
0807001-02	B1VJ78	3.78E2	2.00E2	10/13/08	8J13006
0807001-04	B1VJ80	2.20E3	2.00E2	10/13/08	8J13006
0807001-06	B1VJ82	2.00E3	2.00E2	10/14/08	8J13006
0807001-10	B1VJ86	2.83E3	2.00E2	10/14/08	8J13006
0807001-15	B1VJ91	2.40E3	2.00E2	10/14/08	8J13006
0807001-20	B1VJ96	2.61E3	2.00E2	10/14/08	8J13006
0807001-24	B1VJB0	2.43E3	2.00E2	10/14/08	8J13006
0807001-26	B1VJB8	2.14E3	2.00E2	10/14/08	8J13006
0807001-29	B1VJC1	1.67E3	2.00E2	10/14/08	8J13006
0807001-34	B1VJC6	1.91E3	2.00E2	10/14/08	8J13006
0807001-42	B1VJD1	2.70E3	2.00E2	10/14/08	8J13006
0807001-50	B1VJD6	1.51E3	2.00E2	10/14/08	8J13006
0807001-53	B1X2C4	1.69E3	2.00E2	10/14/08	8J13006
0807001-57	B1X2C8	6.34E2	2.00E2	10/14/08	8J13006
0807001-58	B1X2C9	5.78E2	2.00E2	10/14/08	8J13006

Carbon Analysis/Soil

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

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0807001-01	B1VJ77	3.08E2	2.00E2	10/15/08	8J15003
0807001-02	B1VJ78	<2.00E2	2.00E2	10/15/08	8J15003
0807001-04	B1VJ80	2.55E3	2.00E2	10/15/08	8J15003
0807001-06	B1VJ82	1.24E3	2.00E2	10/15/08	8J15003
0807001-10	B1VJ86	3.07E3	2.00E2	10/15/08	8J15003
0807001-15	B1VJ91	2.38E3	2.00E2	10/15/08	8J15003
0807001-20	B1VJ96	2.73E3	2.00E2	10/15/08	8J15003
0807001-24	B1VJB0	2.45E3	2.00E2	10/15/08	8J15003
0807001-26	B1VJB8	2.21E3	2.00E2	10/15/08	8J15003
0807001-29	B1VJC1	1.33E3	2.00E2	10/15/08	8J15003
0807001-34	B1VJC6	1.70E3	2.00E2	10/16/08	8J15003
0807001-42	B1VJD1	2.63E3	2.00E2	10/16/08	8J15003
0807001-50	B1VJD6	1.34E3	2.00E2	10/16/08	8J15003
0807001-53	B1X2C4	1.52E3	2.00E2	10/16/08	8J15003
0807001-57	B1X2C8	3.40E2	2.00E2	10/16/08	8J15003
0807001-58	B1X2C9	4.86E2	2.00E2	10/16/08	8J15003

GEA/Soil

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**				
10198-40-0	Cobalt-60	<1.33E-1	pCi/g dry	1.33E-1		10/09/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	5.68E2	pCi/g dry	9.42E-1	7.38E0	10/09/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<7.56E-1	pCi/g dry	7.56E-1		10/09/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<5.07E-1	pCi/g dry	5.07E-1		10/09/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<3.31E0	pCi/g dry	3.31E0		10/09/08	8J09002	AGG-RRL-001
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**				
10198-40-0	Cobalt-60	<2.68E-1	pCi/g dry	2.68E-1		10/09/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	6.32E0	pCi/g dry	4.09E-1	1.69E-1	10/09/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<1.26E0	pCi/g dry	1.26E0		10/09/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<7.73E-1	pCi/g dry	7.73E-1		10/09/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<1.26E0	pCi/g dry	1.26E0		10/09/08	8J09002	AGG-RRL-001
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**				
10198-40-0	Cobalt-60	<2.05E-1	pCi/g dry	2.05E-1		10/09/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	<2.71E-1	pCi/g dry	2.71E-1		10/09/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<8.78E-1	pCi/g dry	8.78E-1		10/09/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<5.46E-1	pCi/g dry	5.46E-1		10/09/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<8.97E-1	pCi/g dry	8.97E-1		10/09/08	8J09002	AGG-RRL-001
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**				
10198-40-0	Cobalt-60	<2.40E-1	pCi/g dry	2.40E-1		10/09/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	1.55E0	pCi/g dry	3.14E-1	8.86E-2	10/09/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<1.13E0	pCi/g dry	1.13E0		10/09/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<7.42E-1	pCi/g dry	7.42E-1		10/09/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<1.26E0	pCi/g dry	1.26E0		10/09/08	8J09002	AGG-RRL-001
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**				
10198-40-0	Cobalt-60	<2.22E-1	pCi/g dry	2.22E-1		10/09/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	<2.40E-1	pCi/g dry	2.40E-1		10/09/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<8.19E-1	pCi/g dry	8.19E-1		10/09/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<5.47E-1	pCi/g dry	5.47E-1		10/09/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<9.05E-1	pCi/g dry	9.05E-1		10/09/08	8J09002	AGG-RRL-001
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**				
10198-40-0	Cobalt-60	<2.79E-1	pCi/g dry	2.79E-1		10/09/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	<3.21E-1	pCi/g dry	3.21E-1		10/09/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<1.32E0	pCi/g dry	1.32E0		10/09/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<8.35E-1	pCi/g dry	8.35E-1		10/09/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<1.45E0	pCi/g dry	1.45E0		10/09/08	8J09002	AGG-RRL-001
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**				
10198-40-0	Cobalt-60	<1.94E-1	pCi/g dry	1.94E-1		10/10/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	<1.32E-1	pCi/g dry	1.32E-1		10/10/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<8.30E-1	pCi/g dry	8.30E-1		10/10/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<5.64E-1	pCi/g dry	5.64E-1		10/10/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<9.07E-1	pCi/g dry	9.07E-1		10/10/08	8J09002	AGG-RRL-001
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**				
10198-40-0	Cobalt-60	<2.49E-1	pCi/g dry	2.49E-1		10/10/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	<2.69E-1	pCi/g dry	2.69E-1		10/10/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<9.74E-1	pCi/g dry	9.74E-1		10/10/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<5.94E-1	pCi/g dry	5.94E-1		10/10/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<1.01E0	pCi/g dry	1.01E0		10/10/08	8J09002	AGG-RRL-001

GEA/Soil

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**				
10198-40-0	Cobalt-60	<1.85E-1	pCi/g dry	1.85E-1		10/10/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	<2.20E-1	pCi/g dry	2.20E-1		10/10/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<7.48E-1	pCi/g dry	7.48E-1		10/10/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<4.86E-1	pCi/g dry	4.86E-1		10/10/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<7.64E-1	pCi/g dry	7.64E-1		10/10/08	8J09002	AGG-RRL-001
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**				
10198-40-0	Cobalt-60	<2.10E-1	pCi/g dry	2.10E-1		10/10/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	<2.48E-1	pCi/g dry	2.48E-1		10/10/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<9.75E-1	pCi/g dry	9.75E-1		10/10/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<5.55E-1	pCi/g dry	5.55E-1		10/10/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<9.42E-1	pCi/g dry	9.42E-1		10/10/08	8J09002	AGG-RRL-001
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**				
10198-40-0	Cobalt-60	<1.84E-1	pCi/g dry	1.84E-1		10/13/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	<2.31E-1	pCi/g dry	2.31E-1		10/13/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<7.73E-1	pCi/g dry	7.73E-1		10/13/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<4.56E-1	pCi/g dry	4.56E-1		10/13/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<7.46E-1	pCi/g dry	7.46E-1		10/13/08	8J09002	AGG-RRL-001
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**				
10198-40-0	Cobalt-60	<2.52E-1	pCi/g dry	2.52E-1		10/13/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	<2.99E-1	pCi/g dry	2.99E-1		10/13/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<1.09E0	pCi/g dry	1.09E0		10/13/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<6.28E-1	pCi/g dry	6.28E-1		10/13/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<1.10E0	pCi/g dry	1.10E0		10/13/08	8J09002	AGG-RRL-001
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**				
10198-40-0	Cobalt-60	<1.97E-1	pCi/g dry	1.97E-1		10/13/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	<2.34E-1	pCi/g dry	2.34E-1		10/13/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<8.74E-1	pCi/g dry	8.74E-1		10/13/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<4.96E-1	pCi/g dry	4.96E-1		10/13/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<8.49E-1	pCi/g dry	8.49E-1		10/13/08	8J09002	AGG-RRL-001
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**				
10198-40-0	Cobalt-60	<1.80E-1	pCi/g dry	1.80E-1		10/13/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	<2.10E-1	pCi/g dry	2.10E-1		10/13/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<7.32E-1	pCi/g dry	7.32E-1		10/13/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<4.32E-1	pCi/g dry	4.32E-1		10/13/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<6.86E-1	pCi/g dry	6.86E-1		10/13/08	8J09002	AGG-RRL-001
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**				
10198-40-0	Cobalt-60	<1.81E-1	pCi/g dry	1.81E-1		10/13/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	<2.37E-1	pCi/g dry	2.37E-1		10/13/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<8.55E-1	pCi/g dry	8.55E-1		10/13/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<5.23E-1	pCi/g dry	5.23E-1		10/13/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<8.81E-1	pCi/g dry	8.81E-1		10/13/08	8J09002	AGG-RRL-001
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**				
10198-40-0	Cobalt-60	<1.28E-1	pCi/g dry	1.28E-1		10/14/08	8J09002	AGG-RRL-001
10045-97-3	Cesium-137	<1.62E-1	pCi/g dry	1.62E-1		10/14/08	8J09002	AGG-RRL-001
14683-23-9	Europium-152	<5.70E-1	pCi/g dry	5.70E-1		10/14/08	8J09002	AGG-RRL-001
15585-10-1	Europium-154	<3.53E-1	pCi/g dry	3.53E-1		10/14/08	8J09002	AGG-RRL-001
14391-16-3	Europium-155	<5.62E-1	pCi/g dry	5.62E-1		10/14/08	8J09002	AGG-RRL-001

GEA/Acid Extract

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**				
10198-40-0	Cobalt-60	<4.03E0	pCi/g dry	4.03E0		10/20/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	7.42E2	pCi/g dry	7.49E0	3.58E0	10/20/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<2.04E1	pCi/g dry	2.04E1		10/20/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<1.18E1	pCi/g dry	1.18E1		10/20/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<1.53E1	pCi/g dry	1.53E1		10/20/08	8J17001	AGG-RRL-001
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**				
10198-40-0	Cobalt-60	<4.15E0	pCi/g dry	4.15E0		10/20/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<5.23E0	pCi/g dry	5.23E0		10/20/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.61E1	pCi/g dry	1.61E1		10/20/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.78E0	pCi/g dry	7.78E0		10/20/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<1.03E1	pCi/g dry	1.03E1		10/20/08	8J17001	AGG-RRL-001
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**				
10198-40-0	Cobalt-60	<3.73E0	pCi/g dry	3.73E0		10/20/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<4.49E0	pCi/g dry	4.49E0		10/20/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.35E1	pCi/g dry	1.35E1		10/20/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.56E0	pCi/g dry	7.56E0		10/20/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<9.75E0	pCi/g dry	9.75E0		10/20/08	8J17001	AGG-RRL-001
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**				
10198-40-0	Cobalt-60	<4.12E0	pCi/g dry	4.12E0		10/20/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<5.46E0	pCi/g dry	5.46E0		10/20/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.60E1	pCi/g dry	1.60E1		10/20/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.67E0	pCi/g dry	7.67E0		10/20/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<1.03E1	pCi/g dry	1.03E1		10/20/08	8J17001	AGG-RRL-001
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**				
10198-40-0	Cobalt-60	<3.56E0	pCi/g dry	3.56E0		10/20/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<4.57E0	pCi/g dry	4.57E0		10/20/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.30E1	pCi/g dry	1.30E1		10/20/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.41E0	pCi/g dry	7.41E0		10/20/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<9.63E0	pCi/g dry	9.63E0		10/20/08	8J17001	AGG-RRL-001
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**				
10198-40-0	Cobalt-60	<4.20E0	pCi/g dry	4.20E0		10/20/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<5.14E0	pCi/g dry	5.14E0		10/20/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.60E1	pCi/g dry	1.60E1		10/20/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.72E0	pCi/g dry	7.72E0		10/20/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<1.02E1	pCi/g dry	1.02E1		10/20/08	8J17001	AGG-RRL-001
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**				
10198-40-0	Cobalt-60	<3.55E0	pCi/g dry	3.55E0		10/20/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<4.63E0	pCi/g dry	4.63E0		10/20/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.33E1	pCi/g dry	1.33E1		10/20/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.37E0	pCi/g dry	7.37E0		10/20/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<9.39E0	pCi/g dry	9.39E0		10/20/08	8J17001	AGG-RRL-001
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**				
10198-40-0	Cobalt-60	<3.66E0	pCi/g dry	3.66E0		10/20/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<4.85E0	pCi/g dry	4.85E0		10/20/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.58E1	pCi/g dry	1.58E1		10/20/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.53E0	pCi/g dry	7.53E0		10/20/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<9.90E0	pCi/g dry	9.90E0		10/20/08	8J17001	AGG-RRL-001

GEA/Acid Extract

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**				
10198-40-0	Cobalt-60	<3.32E0	pCi/g dry	3.32E0		10/21/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<4.15E0	pCi/g dry	4.15E0		10/21/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.33E1	pCi/g dry	1.33E1		10/21/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.08E0	pCi/g dry	7.08E0		10/21/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<9.58E0	pCi/g dry	9.58E0		10/21/08	8J17001	AGG-RRL-001
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**				
10198-40-0	Cobalt-60	<3.76E0	pCi/g dry	3.76E0		10/21/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<5.08E0	pCi/g dry	5.08E0		10/21/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.51E1	pCi/g dry	1.51E1		10/21/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.51E0	pCi/g dry	7.51E0		10/21/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<9.88E0	pCi/g dry	9.88E0		10/21/08	8J17001	AGG-RRL-001
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**				
10198-40-0	Cobalt-60	<3.73E0	pCi/g dry	3.73E0		10/22/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<4.66E0	pCi/g dry	4.66E0		10/22/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.34E1	pCi/g dry	1.34E1		10/22/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.34E0	pCi/g dry	7.34E0		10/22/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<9.75E0	pCi/g dry	9.75E0		10/22/08	8J17001	AGG-RRL-001
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**				
10198-40-0	Cobalt-60	<4.27E0	pCi/g dry	4.27E0		10/22/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<5.15E0	pCi/g dry	5.15E0		10/22/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.64E1	pCi/g dry	1.64E1		10/22/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.29E0	pCi/g dry	7.29E0		10/22/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<1.01E1	pCi/g dry	1.01E1		10/22/08	8J17001	AGG-RRL-001
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**				
10198-40-0	Cobalt-60	<3.55E0	pCi/g dry	3.55E0		10/22/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<4.01E0	pCi/g dry	4.01E0		10/22/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.36E1	pCi/g dry	1.36E1		10/22/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.46E0	pCi/g dry	7.46E0		10/22/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<9.94E0	pCi/g dry	9.94E0		10/22/08	8J17001	AGG-RRL-001
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**				
10198-40-0	Cobalt-60	<4.04E0	pCi/g dry	4.04E0		10/22/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<4.97E0	pCi/g dry	4.97E0		10/22/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.59E1	pCi/g dry	1.59E1		10/22/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.26E0	pCi/g dry	7.26E0		10/22/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<9.78E0	pCi/g dry	9.78E0		10/22/08	8J17001	AGG-RRL-001
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**				
10198-40-0	Cobalt-60	<3.43E0	pCi/g dry	3.43E0		10/22/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<4.53E0	pCi/g dry	4.53E0		10/22/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.28E1	pCi/g dry	1.28E1		10/22/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.36E0	pCi/g dry	7.36E0		10/22/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<9.46E0	pCi/g dry	9.46E0		10/22/08	8J17001	AGG-RRL-001
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**				
10198-40-0	Cobalt-60	<4.14E0	pCi/g dry	4.14E0		10/22/08	8J17001	AGG-RRL-001
10045-97-3	Cesium-137	<4.99E0	pCi/g dry	4.99E0		10/22/08	8J17001	AGG-RRL-001
14683-23-9	Europium-152	<1.62E1	pCi/g dry	1.62E1		10/22/08	8J17001	AGG-RRL-001
15585-10-1	Europium-154	<7.92E0	pCi/g dry	7.92E0		10/22/08	8J17001	AGG-RRL-001
14391-16-3	Europium-155	<1.06E1	pCi/g dry	1.06E1		10/22/08	8J17001	AGG-RRL-001

GEA/Water Extract

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**				
10198-40-0	Cobalt-60	<1.09E0	pCi/g dry	1.09E0		10/15/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.43E0	pCi/g dry	1.43E0		10/15/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<3.89E0	pCi/g dry	3.89E0		10/15/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.30E0	pCi/g dry	2.30E0		10/15/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<2.79E0	pCi/g dry	2.79E0		10/15/08	8J15002	AGG-RRL-001
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**				
10198-40-0	Cobalt-60	<1.20E0	pCi/g dry	1.20E0		10/15/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.49E0	pCi/g dry	1.49E0		10/15/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<4.55E0	pCi/g dry	4.55E0		10/15/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.29E0	pCi/g dry	2.29E0		10/15/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<3.03E0	pCi/g dry	3.03E0		10/15/08	8J15002	AGG-RRL-001
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**				
10198-40-0	Cobalt-60	<1.01E0	pCi/g dry	1.01E0		10/15/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.32E0	pCi/g dry	1.32E0		10/15/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<3.90E0	pCi/g dry	3.90E0		10/15/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.21E0	pCi/g dry	2.21E0		10/15/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<2.87E0	pCi/g dry	2.87E0		10/15/08	8J15002	AGG-RRL-001
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**				
10198-40-0	Cobalt-60	<1.31E0	pCi/g dry	1.31E0		10/15/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.46E0	pCi/g dry	1.46E0		10/15/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<4.55E0	pCi/g dry	4.55E0		10/15/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.23E0	pCi/g dry	2.23E0		10/15/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<2.95E0	pCi/g dry	2.95E0		10/15/08	8J15002	AGG-RRL-001
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**				
10198-40-0	Cobalt-60	<1.13E0	pCi/g dry	1.13E0		10/15/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.62E0	pCi/g dry	1.62E0		10/15/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<4.09E0	pCi/g dry	4.09E0		10/15/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.28E0	pCi/g dry	2.28E0		10/15/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<2.83E0	pCi/g dry	2.83E0		10/15/08	8J15002	AGG-RRL-001
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**				
10198-40-0	Cobalt-60	<1.25E0	pCi/g dry	1.25E0		10/15/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.44E0	pCi/g dry	1.44E0		10/15/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<4.69E0	pCi/g dry	4.69E0		10/15/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.22E0	pCi/g dry	2.22E0		10/15/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<2.97E0	pCi/g dry	2.97E0		10/15/08	8J15002	AGG-RRL-001
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**				
10198-40-0	Cobalt-60	<1.07E0	pCi/g dry	1.07E0		10/16/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.35E0	pCi/g dry	1.35E0		10/16/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<3.98E0	pCi/g dry	3.98E0		10/16/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.30E0	pCi/g dry	2.30E0		10/16/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<2.97E0	pCi/g dry	2.97E0		10/16/08	8J15002	AGG-RRL-001
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**				
10198-40-0	Cobalt-60	<1.34E0	pCi/g dry	1.34E0		10/16/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.51E0	pCi/g dry	1.51E0		10/16/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<4.51E0	pCi/g dry	4.51E0		10/16/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.23E0	pCi/g dry	2.23E0		10/16/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<3.02E0	pCi/g dry	3.02E0		10/16/08	8J15002	AGG-RRL-001

GEA/Water Extract

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**				
10198-40-0	Cobalt-60	<1.09E0	pCi/g dry	1.09E0		10/16/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.33E0	pCi/g dry	1.33E0		10/16/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<3.80E0	pCi/g dry	3.80E0		10/16/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.26E0	pCi/g dry	2.26E0		10/16/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<2.88E0	pCi/g dry	2.88E0		10/16/08	8J15002	AGG-RRL-001
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**				
10198-40-0	Cobalt-60	<1.27E0	pCi/g dry	1.27E0		10/16/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.53E0	pCi/g dry	1.53E0		10/16/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<4.59E0	pCi/g dry	4.59E0		10/16/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.24E0	pCi/g dry	2.24E0		10/16/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<2.92E0	pCi/g dry	2.92E0		10/16/08	8J15002	AGG-RRL-001
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**				
10198-40-0	Cobalt-60	<1.07E0	pCi/g dry	1.07E0		10/16/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.35E0	pCi/g dry	1.35E0		10/16/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<4.00E0	pCi/g dry	4.00E0		10/16/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.20E0	pCi/g dry	2.20E0		10/16/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<2.88E0	pCi/g dry	2.88E0		10/16/08	8J15002	AGG-RRL-001
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**				
10198-40-0	Cobalt-60	<1.20E0	pCi/g dry	1.20E0		10/16/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.50E0	pCi/g dry	1.50E0		10/16/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<4.75E0	pCi/g dry	4.75E0		10/16/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.25E0	pCi/g dry	2.25E0		10/16/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<3.07E0	pCi/g dry	3.07E0		10/16/08	8J15002	AGG-RRL-001
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**				
10198-40-0	Cobalt-60	<1.15E0	pCi/g dry	1.15E0		10/17/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.41E0	pCi/g dry	1.41E0		10/17/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<3.98E0	pCi/g dry	3.98E0		10/17/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.31E0	pCi/g dry	2.31E0		10/17/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<2.86E0	pCi/g dry	2.86E0		10/17/08	8J15002	AGG-RRL-001
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**				
10198-40-0	Cobalt-60	<1.21E0	pCi/g dry	1.21E0		10/17/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.50E0	pCi/g dry	1.50E0		10/17/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<4.64E0	pCi/g dry	4.64E0		10/17/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.19E0	pCi/g dry	2.19E0		10/17/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<2.91E0	pCi/g dry	2.91E0		10/17/08	8J15002	AGG-RRL-001
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**				
10198-40-0	Cobalt-60	<9.43E-1	pCi/g dry	9.43E-1		10/17/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.32E0	pCi/g dry	1.32E0		10/17/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<4.09E0	pCi/g dry	4.09E0		10/17/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.24E0	pCi/g dry	2.24E0		10/17/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<2.84E0	pCi/g dry	2.84E0		10/17/08	8J15002	AGG-RRL-001
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**				
10198-40-0	Cobalt-60	<1.27E0	pCi/g dry	1.27E0		10/17/08	8J15002	AGG-RRL-001
10045-97-3	Cesium-137	<1.49E0	pCi/g dry	1.49E0		10/17/08	8J15002	AGG-RRL-001
14683-23-9	Europium-152	<4.83E0	pCi/g dry	4.83E0		10/17/08	8J15002	AGG-RRL-001
15585-10-1	Europium-154	<2.26E0	pCi/g dry	2.26E0		10/17/08	8J15002	AGG-RRL-001
14391-16-3	Europium-155	<2.95E0	pCi/g dry	2.95E0		10/17/08	8J15002	AGG-RRL-001

Total Alpha Total Beta/Acid Extract

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**				
12587-47-2	Gross Beta	4.00E3	pCi/g dry	5.00E1	1.22E2	10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	7.36E3	pCi/g dry	2.10E1	2.97E1	10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**				
12587-47-2	Gross Beta	<5.06E1	pCi/g dry	5.06E1		10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.13E1	pCi/g dry	2.13E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**				
12587-47-2	Gross Beta	<4.92E1	pCi/g dry	4.92E1		10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.07E1	pCi/g dry	2.07E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**				
12587-47-2	Gross Beta	<4.99E1	pCi/g dry	4.99E1		10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.10E1	pCi/g dry	2.10E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**				
12587-47-2	Gross Beta	<4.86E1	pCi/g dry	4.86E1		10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.05E1	pCi/g dry	2.05E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**				
12587-47-2	Gross Beta	7.74E1	pCi/g dry	5.00E1	2.02E1	10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.10E1	pCi/g dry	2.10E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**				
12587-47-2	Gross Beta	<4.85E1	pCi/g dry	4.85E1		10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.04E1	pCi/g dry	2.04E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**				
12587-47-2	Gross Beta	<4.92E1	pCi/g dry	4.92E1		10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.07E1	pCi/g dry	2.07E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**				
12587-47-2	Gross Beta	<4.90E1	pCi/g dry	4.90E1		10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.06E1	pCi/g dry	2.06E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**				
12587-47-2	Gross Beta	<5.04E1	pCi/g dry	5.04E1		10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.12E1	pCi/g dry	2.12E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**				
12587-47-2	Gross Beta	<4.92E1	pCi/g dry	4.92E1		10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.07E1	pCi/g dry	2.07E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**				
12587-47-2	Gross Beta	<5.05E1	pCi/g dry	5.05E1		10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.12E1	pCi/g dry	2.12E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**				
12587-47-2	Gross Beta	<4.93E1	pCi/g dry	4.93E1		10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.08E1	pCi/g dry	2.08E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**				
12587-47-2	Gross Beta	<4.93E1	pCi/g dry	4.93E1		10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.08E1	pCi/g dry	2.08E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**				
12587-47-2	Gross Beta	<4.96E1	pCi/g dry	4.96E1		10/08/08	8J07006	AGG-RRL-002
12587-46-1	Gross Alpha	<2.09E1	pCi/g dry	2.09E1		10/08/08	8J07006	AGG-RRL-002
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**				
12587-47-2	Gross Beta	<5.27E1	pCi/g dry	5.27E1		10/08/08	8J07006	AGG-RRL-002

Total Alpha Total Beta/Acid Extract

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**				
12587-46-1	Gross Alpha	<2.22E1	pCi/g dry	2.22E1		10/08/08	8J07006	AGG-RRL-002

Total Alpha Total Beta/Water Extract

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1VJ77**		**Lab ID:**	**0807001-01**				
12587-47-2	Gross Beta	<1.47E1	pCi/g dry	1.47E1		10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.75E0	pCi/g dry	6.75E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1VJ78**		**Lab ID:**	**0807001-02**				
12587-47-2	Gross Beta	<1.47E1	pCi/g dry	1.47E1		10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.77E0	pCi/g dry	6.77E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1VJ80**		**Lab ID:**	**0807001-04**				
12587-47-2	Gross Beta	<1.47E1	pCi/g dry	1.47E1		10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.76E0	pCi/g dry	6.76E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1VJ82**		**Lab ID:**	**0807001-06**				
12587-47-2	Gross Beta	<1.47E1	pCi/g dry	1.47E1		10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.76E0	pCi/g dry	6.76E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1VJ86**		**Lab ID:**	**0807001-10**				
12587-47-2	Gross Beta	8.51E1	pCi/g dry	1.47E1	7.98E0	10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.76E0	pCi/g dry	6.76E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1VJ91**		**Lab ID:**	**0807001-15**				
12587-47-2	Gross Beta	2.57E2	pCi/g dry	1.47E1	1.19E1	10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.76E0	pCi/g dry	6.76E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1VJ96**		**Lab ID:**	**0807001-20**				
12587-47-2	Gross Beta	2.14E2	pCi/g dry	1.47E1	1.10E1	10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.78E0	pCi/g dry	6.78E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1VJB0**		**Lab ID:**	**0807001-24**				
12587-47-2	Gross Beta	2.85E2	pCi/g dry	1.47E1	1.24E1	10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.78E0	pCi/g dry	6.78E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1VJB8**		**Lab ID:**	**0807001-26**				
12587-47-2	Gross Beta	2.11E2	pCi/g dry	1.47E1	1.10E1	10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.74E0	pCi/g dry	6.74E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1VJC1**		**Lab ID:**	**0807001-29**				
12587-47-2	Gross Beta	1.92E2	pCi/g dry	1.47E1	1.06E1	10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.75E0	pCi/g dry	6.75E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1VJC6**		**Lab ID:**	**0807001-34**				
12587-47-2	Gross Beta	1.33E2	pCi/g dry	1.47E1	9.22E0	10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.76E0	pCi/g dry	6.76E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1VJD1**		**Lab ID:**	**0807001-42**				
12587-47-2	Gross Beta	5.07E2	pCi/g dry	1.48E1	1.60E1	10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.78E0	pCi/g dry	6.78E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1VJD6**		**Lab ID:**	**0807001-50**				
12587-47-2	Gross Beta	2.48E2	pCi/g dry	1.47E1	1.17E1	10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.75E0	pCi/g dry	6.75E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1X2C4**		**Lab ID:**	**0807001-53**				
12587-47-2	Gross Beta	2.18E2	pCi/g dry	1.47E1	1.11E1	10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.74E0	pCi/g dry	6.74E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1X2C8**		**Lab ID:**	**0807001-57**				
12587-47-2	Gross Beta	2.18E2	pCi/g dry	1.47E1	1.11E1	10/07/08	8J07007	AGG-RRL-002
12587-46-1	Gross Alpha	<6.75E0	pCi/g dry	6.75E0		10/07/08	8J07007	AGG-RRL-002
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**				
12587-47-2	Gross Beta	6.04E1	pCi/g dry	1.50E1	7.35E0	10/07/08	8J07007	AGG-RRL-002

Total Alpha Total Beta/Water Extract

CAS #	Analyte	Results	Units	MDA	UNC	Analyzed	Batch	Method
HEIS No.	**B1X2C9**		**Lab ID:**	**0807001-58**				
12587-46-1	Gross Alpha	<6.88E0	pCi/g dry	6.88E0		10/07/08	8J07007	AGG-RRL-002

Wet Chemistry - Quality Control
Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8J02003 - 1:1 Water Extract (pH_EC_Alk)										
Duplicate (8J02003-DUP1)		**Source: 0807001-42**		Prepared: 10/02/08 Analyzed: 10/03/08						
pH	7.89E0	N/A	pH Units		7.90E0			0.127	35	
Duplicate (8J02003-DUP2)		**Source: 0807001-15**		Prepared: 10/02/08 Analyzed: 10/03/08						
pH	7.50E0	N/A	pH Units		7.68E0			2.37	35	
Batch 8J03001 - 1:1 Water Extract (pH_EC_Alk)										
Blank (8J03001-BLK1)				Prepared & Analyzed: 10/03/08						
Specific Conductance (EC)	<1.00E-2	1.00E-2	mS/cm							
Duplicate (8J03001-DUP1)		**Source: 0807001-42**		Prepared & Analyzed: 10/03/08						
Specific Conductance (EC)	2.65E-1	1.00E-2	mS/cm		2.58E-1			2.68	35	
Batch 8J13004 - 1:1 Water Extract (pH_EC_Alk)										
Blank (8J13004-BLK1)				Prepared: 10/02/08 Analyzed: 10/13/08						
Alkalinity as CaCO3	<2.35E1	2.35E1	ug/g wet							
Duplicate (8J13004-DUP1)		**Source: 0807001-42**		Prepared: 10/02/08 Analyzed: 10/13/08						
Alkalinity as CaCO3	6.80E1	2.41E1	ug/g dry		6.67E1			2.01	35	

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 8J03002 - 1:1 Water Extract (IC)										
Blank (8J03002-BLK1)				Prepared & Analyzed: 10/03/08						
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 (8J03002-BS1)				Prepared & Analyzed: 10/03/08						
Fluoride	2.18E0	2.00E-1	ug/g wet	1.99E0		109	80-120			
Chloride	5.11E0	5.00E-1	"	4.99E0		102	80-120			
Nitrite	1.09E1	1.00E0	"	9.97E0		110	80-120			
Nitrate	1.08E1	1.00E0	"	9.97E0		108	80-120			
Sulfate	1.58E1	1.50E0	"	1.50E1		105	80-120			
Phosphate	1.55E1	1.50E0	"	1.50E1		104	80-120			
Duplicate (8J03002-DUP1)	**Source: 0807001-42**			Prepared & Analyzed: 10/03/08						
Fluoride	1.70E0	2.05E-1	ug/g dry		1.77E0			3.77	35	
Chloride	1.37E0	5.12E-1	"		1.27E0			7.31	35	
Nitrite	<1.02E0	1.02E0	"		ND				35	
Nitrate	7.26E1	1.02E0	"		6.64E1			8.82	35	
Sulfate	1.41E1	1.54E0	"		1.37E1			2.91	35	
Phosphate	<1.54E0	1.54E0	"		ND				35	
Post Spike (8J03002-PS1)	**Source: 0807001-01**			Prepared & Analyzed: 10/03/08						
Fluoride	1.74E0	N/A	ug/mL	8.00E-1	9.53E-1	98.6	75-125			
Chloride	3.94E0	N/A	"	2.00E0	2.10E0	92.1	75-125			
Nitrite	3.90E0	N/A	"	4.00E0	ND	97.6	75-125			
Nitrate	4.39E0	N/A	"	4.00E0	4.93E-1	97.4	75-125			
Sulfate	1.70E1	N/A	"	6.00E0	1.17E1	87.7	75-125			
Phosphate	1.53E1	N/A	"	6.00E0	9.89E0	89.5	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 8J13003 - 1:1 Water Extract (ICP/ICPMS)										
Blank (8J13003-BLK1)				Prepared: 10/02/08 Analyzed: 10/14/08						
Aluminum	<8.58E-2	8.58E-2	ug/g wet							
Barium	<8.79E-3	8.79E-3	"							
Beryllium	<2.84E-2	2.84E-2	"							
Calcium	<3.87E-1	3.87E-1	"							
Iron	<1.42E-1	1.42E-1	"							
Potassium	<2.33E0	2.33E0	"							
Magnesium	<8.34E-2	8.34E-2	"							
Manganese	<1.71E-2	1.71E-2	"							
Nickel	<9.33E-2	9.33E-2	"							
Sodium	<6.69E-1	6.69E-1	"							
LCS (8J13003-BS1)				Prepared: 10/02/08 Analyzed: 10/14/08						
Aluminum	4.70E0	8.58E-2	ug/g wet	5.00E0		94.0	80-120			
Barium	4.96E0	8.79E-3	"	5.00E0		99.3	80-120			
Beryllium	5.01E0	2.84E-2	"	5.00E0		100	80-120			
Calcium	4.82E0	3.87E-1	"	5.00E0		96.5	80-120			
Iron	4.93E0	1.42E-1	"	5.00E0		98.6	80-120			
Potassium	4.84E1	2.33E0	"	5.00E1		96.9	80-120			
Magnesium	4.83E0	8.34E-2	"	5.00E0		96.7	80-120			
Manganese	4.95E0	1.71E-2	"	5.00E0		99.0	80-120			
Nickel	5.00E0	9.33E-2	"	5.00E0		100	80-120			
Sodium	5.31E0	6.69E-1	"	5.00E0		106	80-120			
Duplicate (8J13003-DUP1)		**Source: 0807001-42**		Prepared: 10/02/08 Analyzed: 10/14/08						
Aluminum	1.64E-1	8.78E-2	ug/g dry		1.98E-1			19.2	35	
Barium	6.11E-2	9.00E-3	"		3.00E-2			68.2	35	
Beryllium	<2.91E-2	2.91E-2	"		ND				35	
Calcium	2.12E1	3.96E-1	"		2.02E1			4.97	35	
Iron	<1.46E-1	1.46E-1	"		ND				35	
Potassium	9.14E0	2.38E0	"		9.07E0			0.789	35	
Magnesium	4.32E0	8.54E-2	"		4.07E0			6.12	35	
Manganese	<1.75E-2	1.75E-2	"		ND				35	
Nickel	<9.55E-2	9.55E-2	"		ND				35	
Sodium	2.34E1	6.85E-1	"		2.26E1			3.23	35	

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 8J13003 - 1:1 Water Extract (ICP/ICPMS)										
Post Spike (8J13003-PS1)	**Source: 0807001-42**			Prepared: 10/13/08		Analyzed: 10/14/08				
Aluminum	5.49E2	N/A	ug/L	5.00E2	6.59E1	96.6	75-125			
Barium	2.61E2	N/A	"	2.50E2	9.98E0	100	75-125			
Beryllium	2.65E2	N/A	"	2.50E2	ND	106	75-125			
Calcium	7.34E3	N/A	"	5.00E2	6.70E3	128	75-125			
Iron	5.32E2	N/A	"	5.00E2	2.07E1	102	75-125			
Potassium	4.31E3	N/A	"	1.25E3	3.01E3	104	75-125			
Magnesium	1.90E3	N/A	"	5.00E2	1.35E3	110	75-125			
Manganese	2.61E2	N/A	"	2.50E2	ND	105	75-125			
Nickel	5.07E2	N/A	"	5.00E2	ND	102	75-125			
Sodium	8.21E3	N/A	"	5.00E2	7.51E3	140	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 8J13005 - ASTM D 5198 (ICP/ICPMS)										
Blank (8J13005-BLK1)				Prepared: 10/03/08 Analyzed: 10/15/08						
Aluminum	<7.06E-1	7.06E-1	ug/g wet							
Barium	<6.72E-2	6.72E-2	"							
Beryllium	<1.34E-2	1.34E-2	"							
Calcium	<2.62E0	2.62E0	"							
Iron	<1.79E0	1.79E0	"							
Potassium	<1.66E0	1.66E0	"							
Magnesium	<5.55E-1	5.55E-1	"							
Manganese	<2.10E-2	2.10E-2	"							
Nickel	<1.44E-1	1.44E-1	"							
Sodium	<1.88E1	1.88E1	"							
LCS (8J13005-BS1)				Prepared: 10/03/08 Analyzed: 10/15/08						
Aluminum	6.38E0	1.41E-1	ug/g wet	6.43E0		99.2	80-120			
Barium	6.37E0	1.34E-2	"	6.43E0		99.1	80-120			
Beryllium	6.35E0	2.67E-3	"	6.43E0		98.7	80-120			
Calcium	6.45E0	5.24E-1	"	6.43E0		100	80-120			
Iron	6.36E0	3.59E-1	"	6.43E0		98.8	80-120			
Potassium	6.28E1	3.33E-1	"	6.43E1		97.7	80-120			
Magnesium	6.26E0	1.11E-1	"	6.43E0		97.3	80-120			
Manganese	6.49E0	4.20E-3	"	6.43E0		101	80-120			
Nickel	6.14E0	2.89E-2	"	6.43E0		95.5	80-120			
Sodium	6.71E0	3.76E0	"	6.43E0		104	80-120			
Duplicate (8J13005-DUP1)		**Source: 0807001-42**		Prepared: 10/03/08 Analyzed: 10/15/08						
Aluminum	7.46E3	2.43E0	ug/g dry		7.03E3			5.90	35	
Barium	7.67E1	2.31E-1	"		7.82E1			2.04	35	
Beryllium	2.28E-1	4.59E-2	"		2.14E-1			6.44	35	
Calcium	1.07E4	9.01E0	"		9.50E3			12.2	35	
Iron	1.99E4	6.16E0	"		2.03E4			2.20	35	
Potassium	1.78E3	5.72E0	"		1.67E3			6.53	35	
Magnesium	5.07E3	1.91E0	"		4.82E3			5.00	35	
Manganese	3.46E2	7.22E-2	"		3.26E2			6.07	35	
Nickel	1.19E1	4.96E-1	"		1.23E1			3.92	35	
Sodium	1.94E2	6.46E1	"		2.17E2			11.2	35	

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 8J13005 - ASTM D 5198 (ICP/ICPMS)										
Post Spike (8J13005-PS1)	**Source: 0807001-42**			Prepared: 10/13/08		Analyzed: 10/15/08				
Aluminum	8.22E4	N/A	ug/L	5.00E2	8.30E4	NR	75-125			
Barium	1.16E3	N/A	"	2.50E2	9.23E2	93.1	75-125			
Beryllium	2.56E2	N/A	"	2.50E2	2.52E0	101	75-125			
Calcium	1.11E5	N/A	"	5.00E2	1.12E5	NR	75-125			
Iron	2.37E5	N/A	"	5.00E2	2.40E5	NR	75-125			
Potassium	2.08E4	N/A	"	1.25E3	1.97E4	88.3	75-125			
Magnesium	5.68E4	N/A	"	5.00E2	5.68E4	NR	75-125			
Manganese	4.08E3	N/A	"	2.50E2	3.85E3	93.7	75-125			
Nickel	6.40E2	N/A	"	5.00E2	1.46E2	98.9	75-125			
Sodium	3.07E3	N/A	"	5.00E2	2.56E3	102	75-125			

Radionuclides by ICP-MS/Acid Extract - Quality Control
Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8J06003 - ASTM D 5198 (ICP/ICPMS)										
Blank (8J06003-BLK1)				Prepared & Analyzed: 10/06/08						
Technetium-99	<1.19E-3	1.19E-3	ug/g wet							
Uranium 238	<8.64E-3	8.64E-3	"							
Duplicate (8J06003-DUP1)		**Source: 0807001-42**		Prepared & Analyzed: 10/06/08						
Technetium-99	<4.09E-3	4.09E-3	ug/g dry		ND				35	
Uranium 238	4.84E-1	2.97E-2	"		4.78E-1			1.36	35	
Post Spike (8J06003-PS1)		**Source: 0807001-42**		Prepared & Analyzed: 10/06/08						
Technetium-99	5.30E-1	N/A	ug/L	5.00E-1	1.18E-3	106	75-125			
Uranium 238	1.91E0	N/A	"	5.00E-1	1.41E0	101	75-125			
Batch 8J28001 - ASTM D 5198 (ICP/ICPMS)										
Blank (8J28001-BLK1)				Prepared & Analyzed: 10/28/08						
Plutonium-239	<2.28E-3	2.28E-3	ug/g wet							
Duplicate (8J28001-DUP1)		**Source: 0807001-42**		Prepared & Analyzed: 10/28/08						
Plutonium-239	<7.85E-3	7.85E-3	ug/g dry		ND				35	
Post Spike (8J28001-PS1)		**Source: 0807001-42**		Prepared & Analyzed: 10/28/08						
Plutonium-239	8.22E-2	N/A	ug/L	1.00E-1	1.17E-3	81.1	75-125			

Radionuclides by ICP-MS/Water Extract - Quality Control
Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8J06001 - 1:1 Water Extract (ICP/ICPMS)										
Blank (8J06001-BLK1)				Prepared & Analyzed: 10/06/08						
Technetium-99	<2.30E-5	2.30E-5	ug/g wet							
Uranium 238	<5.64E-4	5.64E-4	"							
Duplicate (8J06001-DUP1)		**Source: 0807001-42**		Prepared & Analyzed: 10/06/08						
Technetium-99	<2.35E-5	2.35E-5	ug/g dry		ND				35	
Uranium 238	<5.77E-4	5.77E-4	"		ND				35	
Post Spike (8J06001-PS1)		**Source: 0807001-42**		Prepared & Analyzed: 10/06/08						
Technetium-99	5.06E-1	N/A	ug/L	5.00E-1	1.33E-4	101	75-125			
Uranium 238	5.74E-1	N/A	"	5.00E-1	7.02E-2	101	75-125			
Batch 8J27004 - 1:1 Water Extract (ICP/ICPMS)										
Blank (8J27004-BLK1)				Prepared & Analyzed: 10/27/08						
Plutonium-239	<4.00E-5	4.00E-5	ug/g wet							
Duplicate (8J27004-DUP1)		**Source: 0807001-42**		Prepared & Analyzed: 10/27/08						
Plutonium-239	<4.09E-5	4.09E-5	ug/g dry		ND				35	
Post Spike (8J27004-PS1)		**Source: 0807001-42**		Prepared & Analyzed: 10/27/08						
Plutonium-239	1.07E-1	N/A	ug/L	1.00E-1	2.01E-3	105	75-125			
Batch 8J30011 - 1:1 Water Extract (ICP/ICPMS)										
Blank (8J30011-BLK1)				Prepared & Analyzed: 11/10/08						
Iodine-129	<3.78E-4	3.78E-4	ug/g wet							

Radionuclides by ICP-MS/Water Extract - Quality Control
Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8J30011 - 1:1 Water Extract (ICP/ICPMS)										
Duplicate (8J30011-DUP1)		**Source: 0807001-42**		Prepared & Analyzed: 11/10/08						
Iodine-129	<3.86E-4	3.86E-4	ug/g dry		ND				35	
Post Spike (8J30011-PS1)		**Source: 0807001-42**		Prepared & Analyzed: 11/10/08						
Iodine-129	1.44E-1	N/A	ug/L	1.00E-1	4.95E-2	94.8	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
Batch 8J08001 - 1:1 Water Extract (ICP/ICPMS)										
Blank (8J08001-BLK1)				Prepared & Analyzed: 10/08/08						
Chromium	<2.06E-3	2.06E-3	ug/g wet							
Copper	<3.48E-3	3.48E-3	"							
Arsenic	<6.25E-3	6.25E-3	"							
Selenium	<1.10E-2	1.10E-2	"							
Silver	<9.25E-4	9.25E-4	"							
Cadmium	<2.95E-4	2.95E-4	"							
Antimony	<5.40E-4	5.40E-4	"							
Lead	<5.60E-4	5.60E-4	"							
LCS (8J08001-BS1)				Prepared & Analyzed: 10/08/08						
Chromium	5.07E0	2.06E-1	ug/g wet	5.00E0		102	80-120			
Copper	4.90E0	3.48E-1	"	5.00E0		98.0	80-120			
Arsenic	5.05E0	6.25E-1	"	5.00E0		101	80-120			
Selenium	5.25E0	1.10E0	"	5.00E0		105	80-120			
Silver	5.03E0	9.25E-2	"	5.00E0		101	80-120			
Cadmium	5.31E0	2.95E-2	"	5.00E0		106	80-120			
Lead	4.98E0	5.60E-2	"	5.00E0		99.8	80-120			
Duplicate (8J08001-DUP1)		**Source: 0807001-42**		Prepared & Analyzed: 10/08/08						
Chromium	<2.10E-3	2.10E-3	ug/g dry		ND				35	
Copper	<3.56E-3	3.56E-3	"		ND				35	
Arsenic	<6.40E-3	6.40E-3	"		ND				35	
Selenium	<1.13E-2	1.13E-2	"		ND				35	
Silver	<9.47E-4	9.47E-4	"		ND				35	
Cadmium	5.76E-4	3.02E-4	"		5.46E-4			5.40	35	
Antimony	6.83E-3	5.53E-4	"		6.77E-3			0.825	35	
Lead	<5.73E-4	5.73E-4	"		ND				35	

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
Batch 8J08001 - 1:1 Water Extract (ICP/ICPMS)										
Post Spike (8J08001-PS1)	**Source: 0807001-42**			Prepared & Analyzed: 10/08/08						
Chromium	4.72E0	N/A	ug/L	5.00E0	3.92E-2	93.5	75-125			
Copper	4.97E0	N/A	"	5.00E0	1.16E-1	97	75-125			
Arsenic	5.57E0	N/A	"	5.00E0	3.25E-1	105	75-125			
Selenium	5.31E0	N/A	"	5.00E0	ND	107	75-125			
Silver	4.91E0	N/A	"	5.00E0	1.44E-2	97.9	75-125			
Cadmium	5.14E0	N/A	"	5.00E0	1.09E-1	101	75-125			
Antimony	6.27E0	N/A	"	5.00E0	1.35E0	98.3	75-125			
Lead	4.89E0	N/A	"	5.00E0	1.33E-3	97.8	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 8J09001 - ASTM D 5198 (ICP/ICPMS)										
Blank (8J09001-BLK1)				Prepared & Analyzed: 10/09/08						
Chromium	<5.46E-2	5.46E-2	ug/g wet							
Copper	<1.93E-1	1.93E-1	"							
Arsenic	<1.20E-1	1.20E-1	"							
Selenium	<3.28E-1	3.28E-1	"							
Silver	<1.99E-2	1.99E-2	"							
Cadmium	<1.41E-2	1.41E-2	"							
Antimony	<2.28E-2	2.28E-2	"							
Lead	<1.06E-2	1.06E-2	"							
LCS (8J09001-BS1)				Prepared & Analyzed: 10/09/08						
Chromium	6.71E0	7.80E-2	ug/g wet	6.43E0		104	80-120			
Copper	7.03E0	2.76E-1	"	6.43E0		109	80-120			
Arsenic	7.12E0	1.71E-1	"	6.43E0		111	80-120			
Selenium	7.09E0	4.69E-1	"	6.43E0		110	80-120			
Silver	6.96E0	2.84E-2	"	6.43E0		108	80-120			
Cadmium	7.18E0	2.01E-2	"	6.43E0		112	80-120			
Antimony	7.02E0	3.26E-2	"	6.43E0		109	80-120			
Lead	6.88E0	1.51E-2	"	6.43E0		107	80-120			
Duplicate (8J09001-DUP1)	**Source: 0807001-42**			Prepared & Analyzed: 10/09/08						
Chromium	4.02E1	1.88E-1	ug/g dry		4.34E1			7.75	35	
Copper	1.11E1	6.63E-1	"		1.12E1			0.955	35	
Arsenic	4.01E0	4.12E-1	"		3.46E0			14.8	35	
Selenium	<1.13E0	1.13E0	"		ND				35	
Silver	<6.84E-2	6.84E-2	"		ND				35	
Cadmium	9.57E-2	4.85E-2	"		9.28E-2			3.05	35	
Antimony	5.41E-1	7.84E-2	"		5.14E-1			5.20	35	
Lead	4.71E0	3.64E-2	"		4.20E0			11.6	35	

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 8J09001 - ASTM D 5198 (ICP/ICPMS)										
Post Spike (8J09001-PS1)		**Source: 0807001-42**		Prepared & Analyzed: 10/09/08						
Chromium	1.30E2	N/A	ug/L	5.00E0	1.28E2	38.6	75-125			
Copper	3.68E1	N/A	"	5.00E0	3.30E1	75.1	75-125			
Arsenic	1.46E1	N/A	"	5.00E0	1.02E1	88.6	75-125			
Selenium	3.77E0	N/A	"	5.00E0	ND	86.3	75-125			
Silver	4.77E0	N/A	"	5.00E0	1.58E-1	92.2	75-125			
Cadmium	4.79E0	N/A	"	5.00E0	2.74E-1	90.4	75-125			
Antimony	5.90E0	N/A	"	5.00E0	1.52E0	87.6	75-125			
Lead	1.63E1	N/A	"	5.00E0	1.24E1	77.9	75-125			
Batch 8J13002 - ASTM D 5198 (ICP/ICPMS)										
Blank (8J13002-BLK1)				Prepared & Analyzed: 10/13/08						
Mercury	<1.31E-2	1.31E-2	ug/g wet							U
Duplicate (8J13002-DUP1)		**Source: 0807001-42**		Prepared & Analyzed: 10/13/08						
Mercury	<4.50E-2	4.50E-2	ug/g dry		ND				35	U
Post Spike (8J13002-PS1)		**Source: 0807001-42**		Prepared & Analyzed: 10/13/08						
Mercury	8.30E-1	N/A	ug/L	1.00E0	3.53E-2	79.5	75-125			

GEA/Acid Extract - Quality Control
Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8J17001 - ASTM D 5198 (RadChem)										
Blank (8J17001-BLK1)				Prepared: 10/17/08 Analyzed: 10/22/08						
Cobalt-60	<1.10E0	1.10E0	pCi/g wet							
Cesium-137	<1.44E0	1.44E0	"							
Europium-152	<3.87E0	3.87E0	"							
Europium-154	<2.20E0	2.20E0	"							
Europium-155	<2.86E0	2.86E0	"							
Duplicate (8J17001-DUP1)		**Source: 0807001-42**		Prepared: 10/17/08 Analyzed: 10/22/08						
Cobalt-60	<4.40E0	4.40E0	pCi/g dry		ND				35	
Cesium-137	<5.36E0	5.36E0	"		ND				35	
Europium-152	<1.58E1	1.58E1	"		ND				35	
Europium-154	<7.63E0	7.63E0	"		ND				35	
Europium-155	<1.03E1	1.03E1	"		ND				35	

GEA/Water Extract - Quality Control
Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8J15002 - 1:1 Water Extract (RadChem)										
Blank (8J15002-BLK1)				Prepared: 10/12/08 Analyzed: 10/13/08						
Cobalt-60	<9.94E-1	9.94E-1	pCi/g wet							
Cesium-137	<1.37E0	1.37E0	"							
Europium-152	<4.11E0	4.11E0	"							
Europium-154	<2.25E0	2.25E0	"							
Europium-155	<2.85E0	2.85E0	"							
Duplicate (8J15002-DUP1)		**Source: 0807001-42**		Prepared: 10/15/08 Analyzed: 10/17/08						
Cobalt-60	<1.19E0	1.19E0	pCi/g dry		ND				35	
Cesium-137	<1.48E0	1.48E0	"		ND				35	
Europium-152	<4.15E0	4.15E0	"		ND				35	
Europium-154	<2.32E0	2.32E0	"		ND				35	
Europium-155	<3.02E0	3.02E0	"		ND				35	

Total Alpha Total Beta/Acid Extract - Quality Control
Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8J07006 - ASTM D 5198 (RadChem)										
Blank (8J07006-BLK1)				Prepared: 10/07/08 Analyzed: 10/08/08						
Gross Beta	<1.49E1	1.49E1	pCi/g wet							
Gross Alpha	<6.27E0	6.27E0	"							
Duplicate (8J07006-DUP1)	**Source: 0807001-42**			Prepared: 10/07/08 Analyzed: 10/08/08						
Gross Beta	<5.12E1	5.12E1	pCi/g dry		ND				35	
Gross Alpha	<2.15E1	2.15E1	"		ND				35	

Total Alpha Total Beta/Water Extract - Quality Control
Environmental Science Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8J07007 - 1:1 Water Extract (RadChem)										
Blank (8J07007-BLK1)				Prepared & Analyzed: 10/07/08						
Gross Beta	<1.47E1	1.47E1	pCi/g wet							
Gross Alpha	<6.76E0	6.76E0	"							
Duplicate (8J07007-DUP1)		**Source: 0807001-42**		Prepared & Analyzed: 10/07/08						
Gross Beta	5.44E2	1.51E1	pCi/g dry		5.07E2			7.06	35	
Gross Alpha	<6.92E0	6.92E0	"		ND				35	

PARTICLE SIZE DISTRIBUTION ANALYSIS HYDROMETER

Sample ID:	B1VJ77	
Time, min	X, um	P, %
0.5	85.6	11.7
1	59.8	10.0
3	34.1	8.41
10	18.4	6.24
30	10.5	4.61
60	7.36	3.80
90	5.98	3.26
120	5.17	2.99
1440	1.48	1.90

Sample ID:	B1VJ80	
Time, min	X, um	P, %
0.5	80.8	7.95
1	56.8	6.89
3	32.7	5.83
10	17.8	4.77
30	10.2	3.71
60	7.21	2.65
90	5.88	2.65
120	5.07	1.59
1440	1.46	1.59

Sample ID:	B1VJ78	
Time, min	X, um	P, %
0.5	83.2	16.2
1	58.2	13.4
3	33.3	10.6
10	18.1	8.38
30	10.3	5.58
60	7.27	5.03
90	5.92	4.47
120	5.11	3.35
1440	1.47	2.23

Sample ID:	B1VJ82	
Time, min	X, um	P, %
0.5	81.6	11.7
1	57.4	9.92
3	32.9	8.17
10	17.9	6.42
30	10.3	4.67
60	7.24	4.09
90	5.90	3.50
120	5.10	2.92
1440	1.46	1.75

PARTICLE SIZE DISTRIBUTION ANALYSIS HYDROMETER

Sample ID:	B1VJ86	
Time, min	X, um	P, %
0.5	81.5	9.42
1	57.4	8.43
3	32.8	6.45
10	17.9	5.46
30	10.3	3.97
60	7.24	3.47
90	5.88	2.48
120	5.10	2.48
1440	1.47	1.98

Sample ID:	B1VJ96	
Time, min	X, um	P, %
0.5	80.9	7.45
1	57.0	6.52
3	32.7	5.12
10	17.8	4.19
30	10.2	3.26
60	7.21	2.33
90	5.88	2.33
120	5.10	2.33
1440	1.47	1.86

Sample ID:	B1VJ91	
Time, min	X, um	P, %
0.5	82.5	15.2
1	57.6	11.5
3	32.9	8.49
10	17.9	6.67
30	10.2	4.24
60	7.22	3.64
90	5.88	3.03
120	5.10	3.03
1440	1.47	2.42

Sample ID:	B1VJB0	
Time, min	X, um	P, %
0.5	83.6	16.7
1	58.4	13.5
3	33.4	11.3
10	18.1	8.63
30	10.4	7.01
60	7.31	5.93
90	5.94	4.85
120	5.13	4.31
1440	1.47	3.23

PARTICLE SIZE DISTRIBUTION ANALYSIS HYDROMETER

Sample ID:	B1VJB8	
Time, min	X, um	P, %
0.5	83.4	14.2
1	58.4	11.8
3	33.3	8.99
10	18.1	7.10
30	10.3	5.20
60	7.27	4.26
90	5.94	4.26
120	5.12	3.31
1440	1.47	2.37

Sample ID:	B1VJC6	
Time, min	X, um	P, %
0.5	81.3	9.64
1	57.1	8.12
3	32.7	6.60
10	17.8	5.07
30	10.3	4.57
60	7.24	4.06
90	5.88	3.04
120	5.08	2.54
1440	1.47	1.52

Sample ID:	B1VJC1	
Time, min	X, um	P, %
0.5	85.5	19.4
1	59.8	17.1
3	34.2	14.8
10	18.5	12.0
30	10.5	8.78
60	7.40	7.86
90	6.01	6.47
120	5.19	6.01
1440	1.48	4.16

Sample ID:	B1VJD1	
Time, min	X, um	P, %
0.5	90.4	41.3
1	62.9	36.2
3	35.4	28.3
10	19.0	22.1
30	10.7	17.0
60	7.50	13.6
90	6.10	12.4
120	5.24	10.2
1440	1.49	5.65

PARTICLE SIZE DISTRIBUTION ANALYSIS HYDROMETER

Sample ID:	B1VJD6	
Time, min	X, um	P, %
0.5	87.5	21.4
1	61.3	19.4
3	34.7	15.5
10	18.7	12.4
30	10.7	10.1
60	7.47	8.55
90	6.07	7.77
120	5.24	6.99
1440	1.49	3.50

Sample ID:	B1X2C8	
Time, min	X, um	P, %
0.5	85.6	5.80
1	60.0	5.14
3	34.1	4.22
10	18.5	3.43
30	10.5	2.64
60	7.36	1.98
90	5.99	1.85
120	5.17	1.58
1440	1.48	0.79

Sample ID:	B1X2C4	
Time, min	X, um	P, %
0.5	87.3	19.2
1	61.0	17.1
3	34.7	14.3
10	18.7	11.0
30	10.6	8.55
60	7.42	6.77
90	6.03	6.06
120	5.21	5.70
1440	1.48	2.85

Sample ID:	B1X2C9	
Time, min	X, um	P, %
0.5	84.8	5.56
1	59.2	4.71
3	33.7	3.71
10	18.2	2.71
30	10.4	2.00
60	7.29	1.57
90	5.94	1.43
120	5.13	1.28
1440	1.47	0.57

PARTICLE SIZE DISTRIBUTION ANALYSIS

Sample ID:	B1VJ77		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	11.2%	88.8
5/16"	8000	22.6%	66.2
5	4000	16.2%	50.0
10	2000	10.2%	39.8
18	1000	8.71%	31.1
35	500	7.89%	23.2
60	250	7.21%	16.0
120	125	5.99%	10.0
230	63	4.71%	5.29
Pan		5.29%	

Sample ID:	B1VJ78		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	0.0%	100
5/16"	8000	0.0%	100
5	4000	1.10%	98.9
10	2000	2.35%	96.5
18	1000	18.2%	78.3
35	500	36.3%	42.0
60	250	18.1%	23.9
120	125	10.1%	13.8
230	63	6.46%	7.33
Pan		7.33%	

PARTICLE SIZE DISTRIBUTION ANALYSIS

Sample ID:	B1VJ80		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	0.0%	100
5/16"	8000	0.0%	100
5	4000	0.0%	100
10	2000	0.03%	99.97
18	1000	8.25%	91.7
35	500	55.5%	36.3
60	250	20.1%	16.1
120	125	6.28%	9.86
230	63	4.05%	5.81
Pan		5.81%	

Sample ID:	B1VJ82		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	0.0%	100
5/16"	8000	0.0%	100
5	4000	0.83%	99.2
10	2000	2.06%	97.1
18	1000	12.1%	85.0
35	500	38.6%	46.4
60	250	24.5%	21.9
120	125	8.77%	13.1
230	63	7.59%	5.55
Pan		5.55%	

PARTICLE SIZE DISTRIBUTION ANALYSIS

Sample ID:	B1VJ86		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	0.0%	100
5/16"	8000	0.0%	100
5	4000	0.0%	100
10	2000	0.0%	100
18	1000	2.96%	97.0
35	500	47.3%	49.8
60	250	31.4%	18.4
120	125	7.67%	10.7
230	63	5.17%	5.57
Pan		5.57%	0.00

Sample ID:	B1VJ91		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	0.0%	100
5/16"	8000	0.0%	100
5	4000	0.0%	100
10	2000	0.01%	100.0
18	1000	0.91%	99.1
35	500	3.17%	95.9
60	250	24.3%	71.6
120	125	44.7%	27.0
230	63	17.7%	9.23
Pan		9.23%	0.00

PARTICLE SIZE DISTRIBUTION ANALYSIS

Sample ID:	B1VJ96		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	0.0%	100
5/16"	8000	0.0%	100
5	4000	0.56%	99.4
10	2000	1.56%	97.9
18	1000	10.5%	87.4
35	500	41.5%	45.9
60	250	28.7%	17.2
120	125	7.95%	9.20
230	63	4.76%	4.44
Pan		4.44%	0.00

Sample ID:	B1VJB0		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	0.0%	100
5/16"	8000	0.0%	100
5	4000	0.0%	100
10	2000	0.31%	99.7
18	1000	3.07%	96.6
35	500	16.3%	80.3
60	250	39.0%	41.4
120	125	23.2%	18.1
230	63	10.1%	8.04
Pan		8.04%	0.00

PARTICLE SIZE DISTRIBUTION ANALYSIS

Sample ID:	B1VJB8		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	0.0%	100
5/16"	8000	0.0%	100
5	4000	0.0%	100
10	2000	0.35%	99.6
18	1000	3.62%	96.0
35	500	21%	75.5
60	250	44%	31.5
120	125	16.3%	15.3
230	63	7.65%	7.63
Pan		7.63%	0.00

Sample ID:	B1VJC1		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	0.0%	100
5/16"	8000	0.0%	100
5	4000	0.16%	99.8
10	2000	1.83%	98.0
18	1000	15.5%	82.6
35	500	31.8%	50.8
60	250	26.0%	24.8
120	125	12.1%	12.7
230	63	8.20%	4.48
Pan		4.48%	0.00

PARTICLE SIZE DISTRIBUTION ANALYSIS

Sample ID:	B1VJC6		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	0.0%	100
5/16"	8000	0.0%	100
5	4000	0.0%	100
10	2000	0.13%	99.9
18	1000	4.85%	95.0
35	500	35.5%	59.5
60	250	33.4%	26.0
120	125	12.1%	13.9
230	63	6.99%	6.92
Pan		6.92%	0.00

Sample ID:	B1VJD1		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	0.0%	100
5/16"	8000	0.0%	100
5	4000	0.0%	100
10	2000	0.60%	99.4
18	1000	5.50%	93.9
35	500	16.4%	77.5
60	250	27.9%	49.6
120	125	22.4%	27.2
230	63	14.4%	12.8
Pan		12.8%	0.00

PARTICLE SIZE DISTRIBUTION ANALYSIS

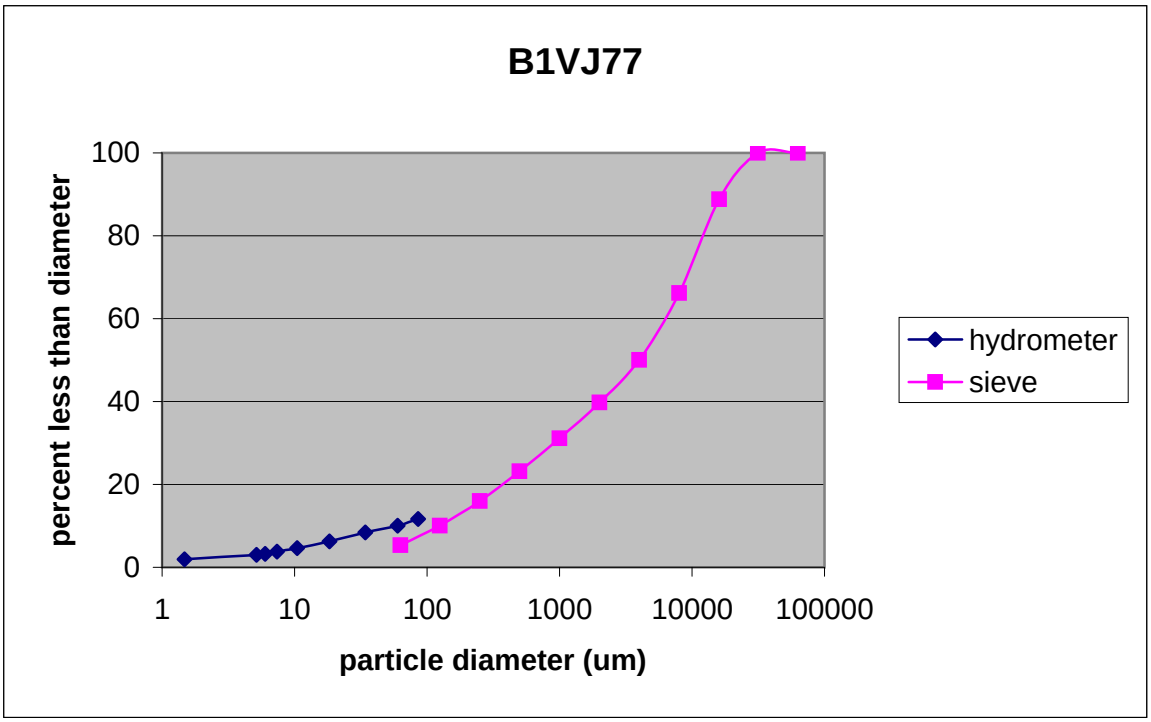
Sample ID:	B1VJD6		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	3.54%	96.5
5/16"	8000	8.94%	87.5
5	4000	3.63%	83.9
10	2000	2.78%	81.1
18	1000	8.71%	72.4
35	500	28.8%	43.6
60	250	17.08%	26.5
120	125	9.57%	16.9
230	63	8.55%	8.37
Pan		8.37%	0.00

Sample ID:	B1X2C4		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	9.09%	90.9
5/16"	8000	10.6%	80.3
5	4000	5.90%	74.4
10	2000	2.88%	71.5
18	1000	6.59%	65.0
35	500	20.9%	44.1
60	250	16.4%	27.7
120	125	9.48%	18.2
230	63	7.93%	10.3
Pan		10.3%	0.00

PARTICLE SIZE DISTRIBUTION ANALYSIS

Sample ID:	B1X2C8		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	19.1%	80.9
5/16"	8000	31.9%	49.0
5	4000	17.6%	31.4
10	2000	7.77%	23.6
18	1000	5.92%	17.7
35	500	4.66%	13.0
60	250	4.25%	8.75
120	125	3.64%	5.11
230	63	3.29%	1.82
Pan		1.82%	0.00

Sample ID:	B1X2C9		
SIEVE NUMBER	X, um	SOIL FRACTION	PERCENT PASSING
2 1/2"	63000	0.0%	100
1 1/4"	31500	0.0%	100
5/8"	16000	17.0%	83.0
5/16"	8000	28.4%	54.6
5	4000	18.2%	36.4
10	2000	10.5%	25.9
18	1000	7.23%	18.7
35	500	5.38%	13.3
60	250	4.03%	9.24
120	125	3.17%	6.07
230	63	3.17%	2.90
Pan		2.90%	0.00


B1VJ77
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10
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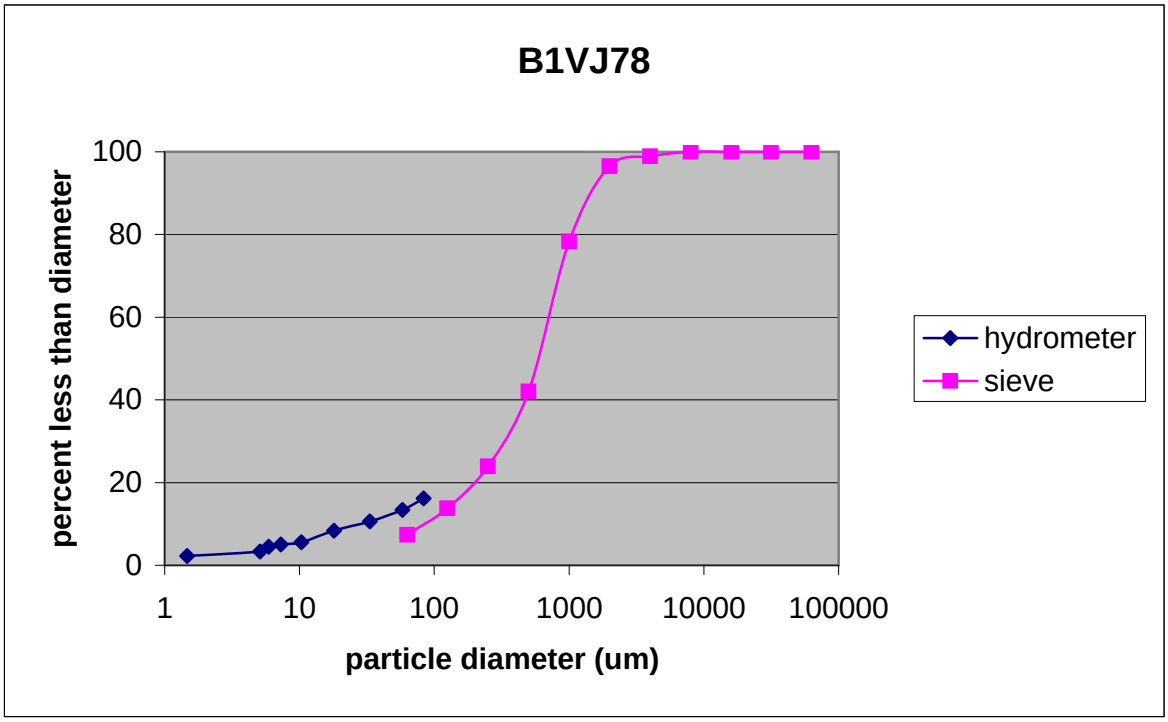
hydrometer
sieve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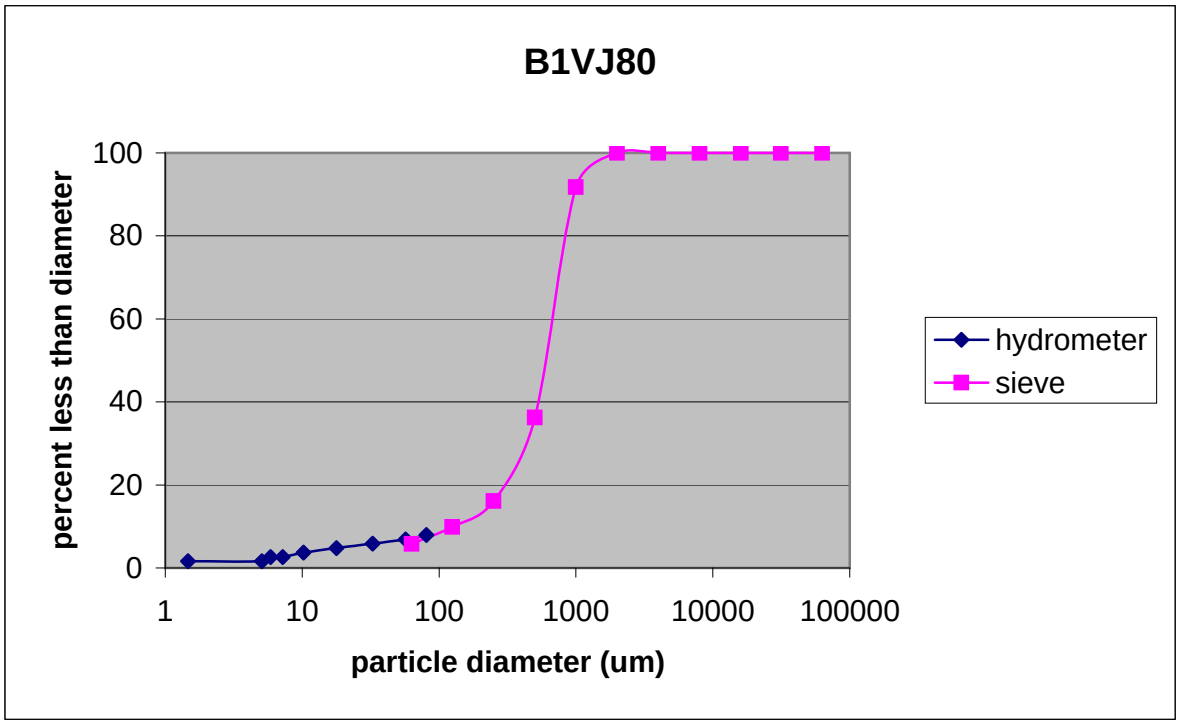
hydrometer
sieve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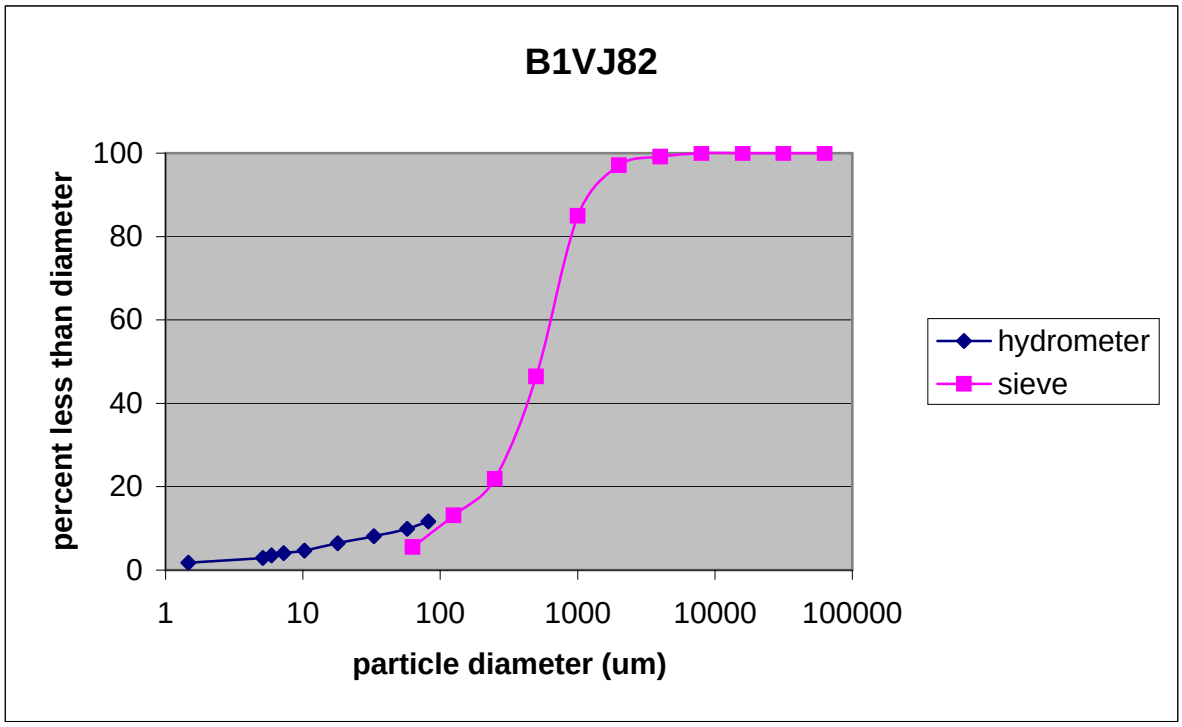
hydrometer
sieve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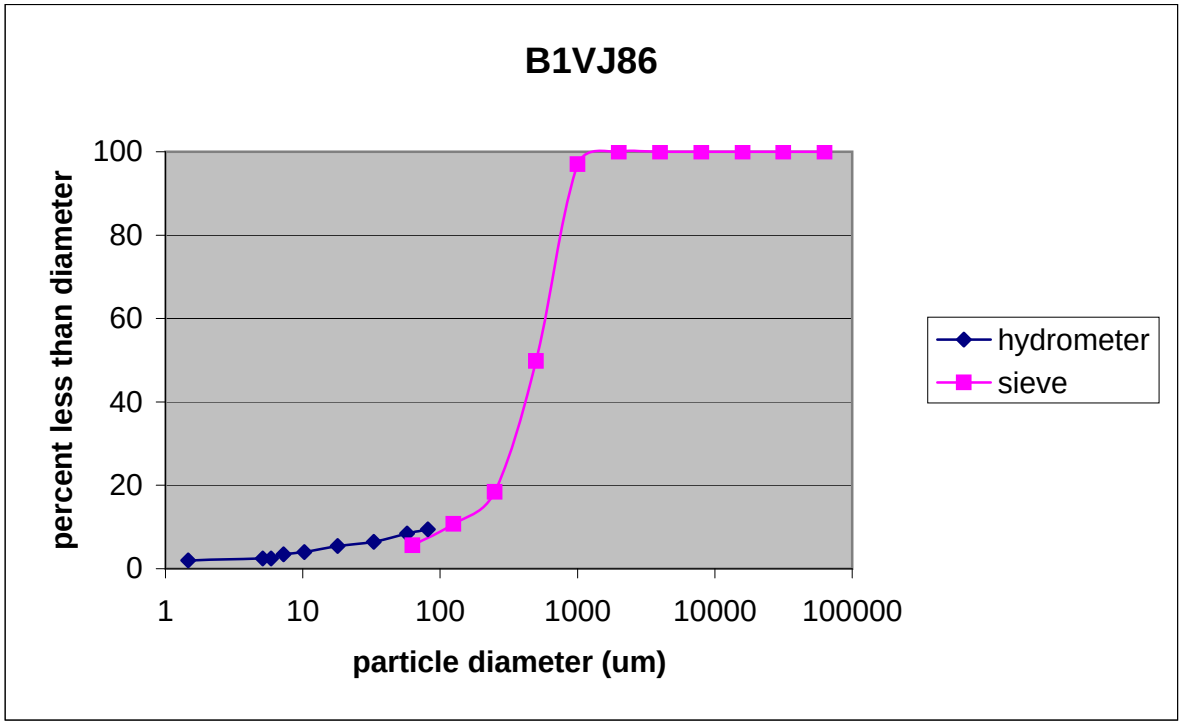
particle diameter (um)
hydrometer
sieve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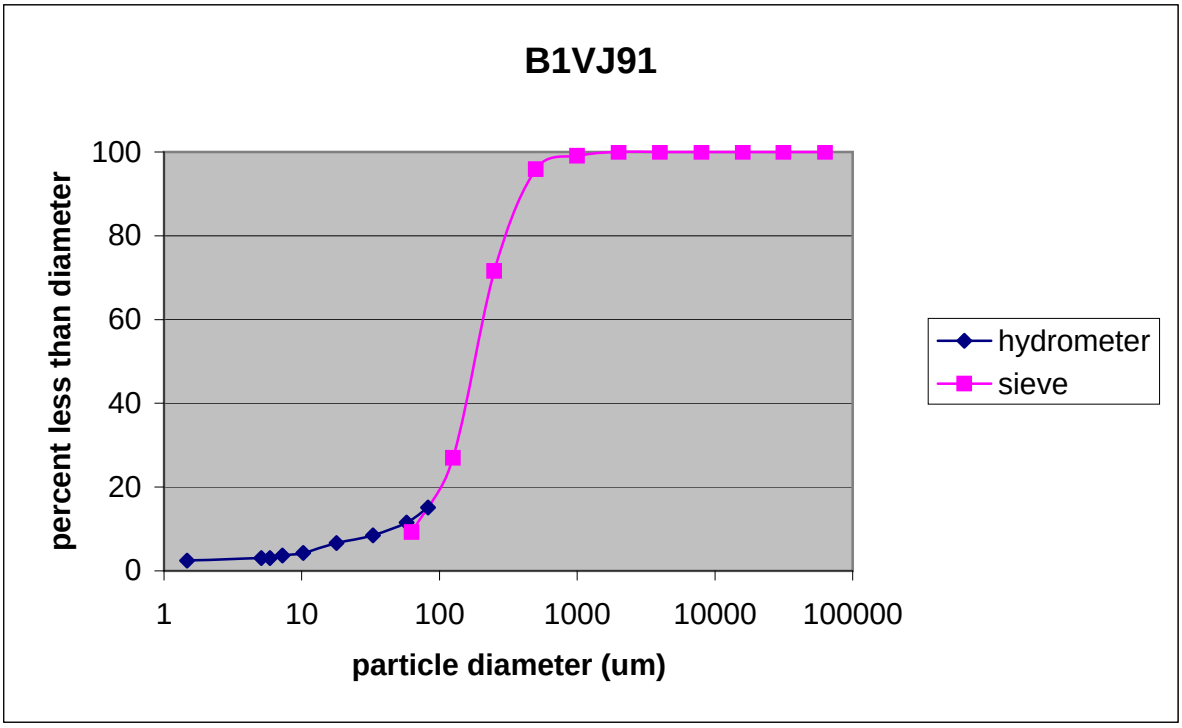
hydrometer
sieve


B1VJ91
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100
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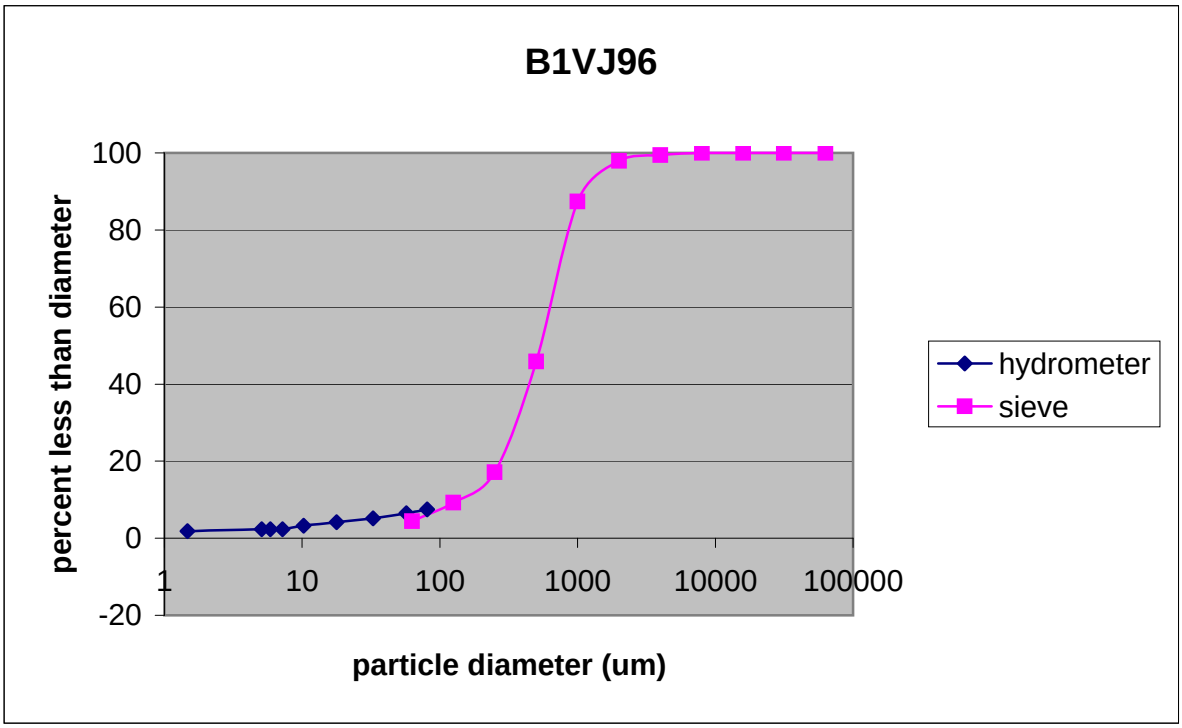
particle diameter (um)
hydrometer
sieve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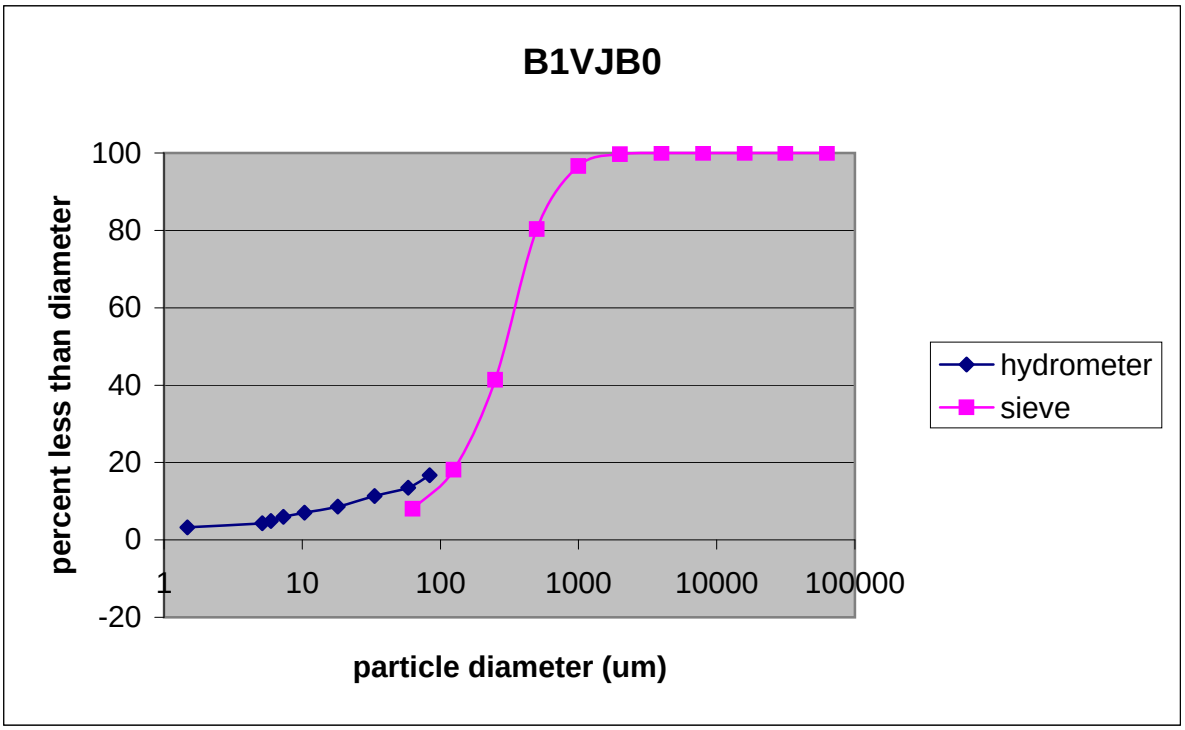
particle diameter (um)
hydrometer
sieve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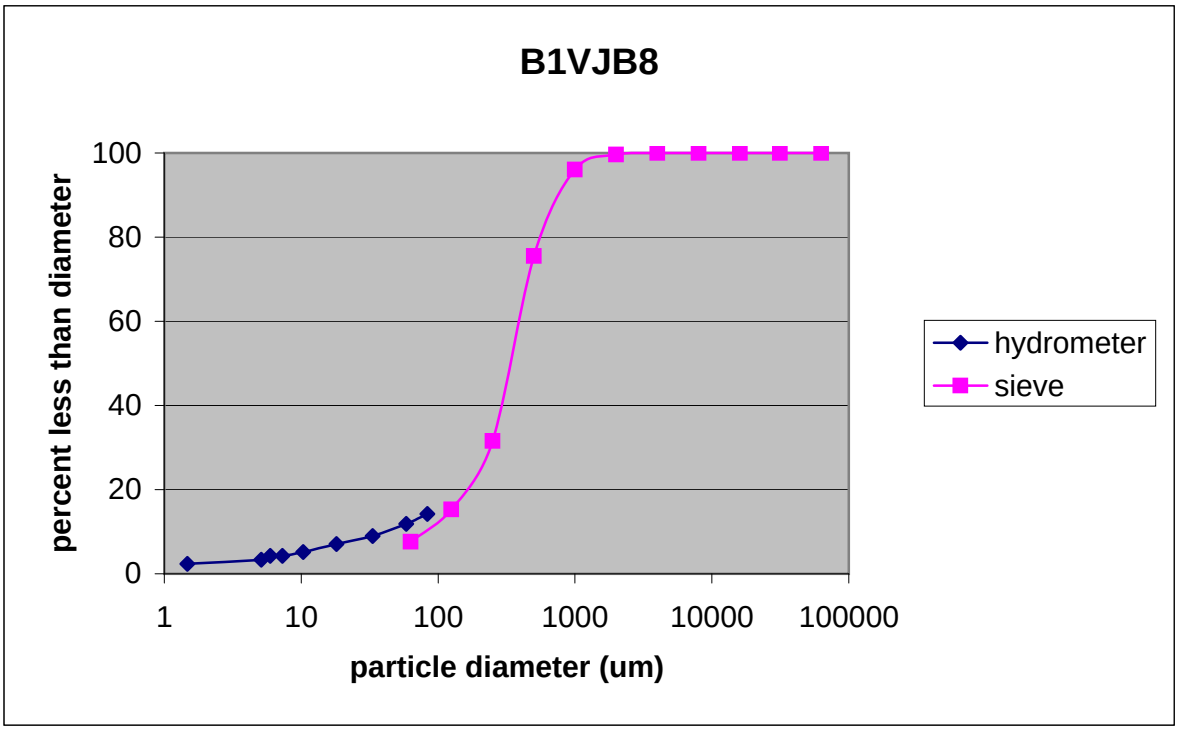
hydrometer
sieve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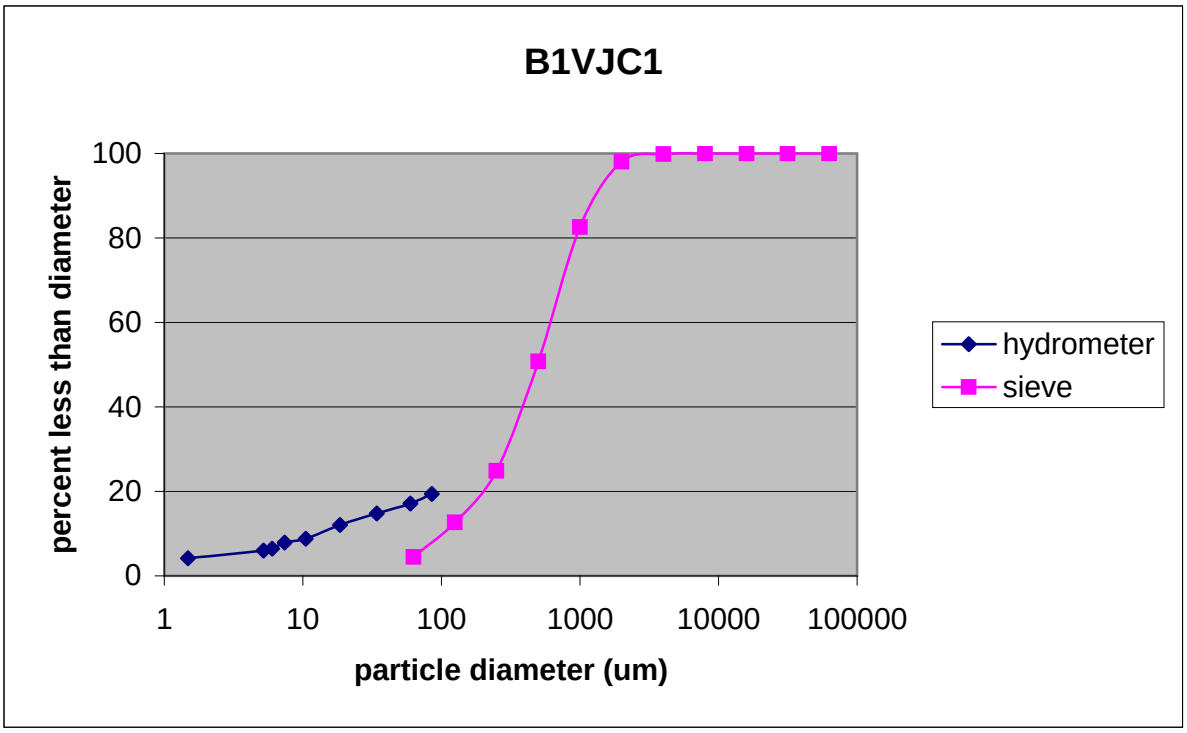
particle diameter (um)
hydrometer
sieve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100
1000
10000
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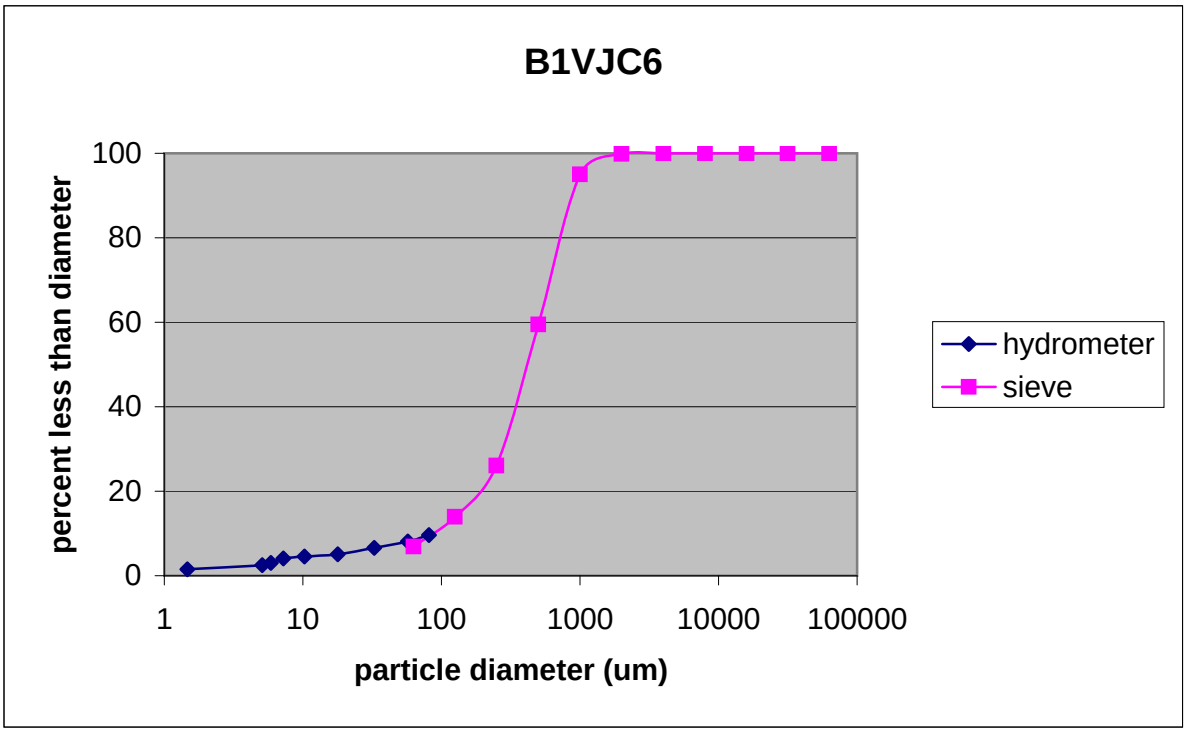
particle diameter (um)
hydrometer
sieve


B1VJC6
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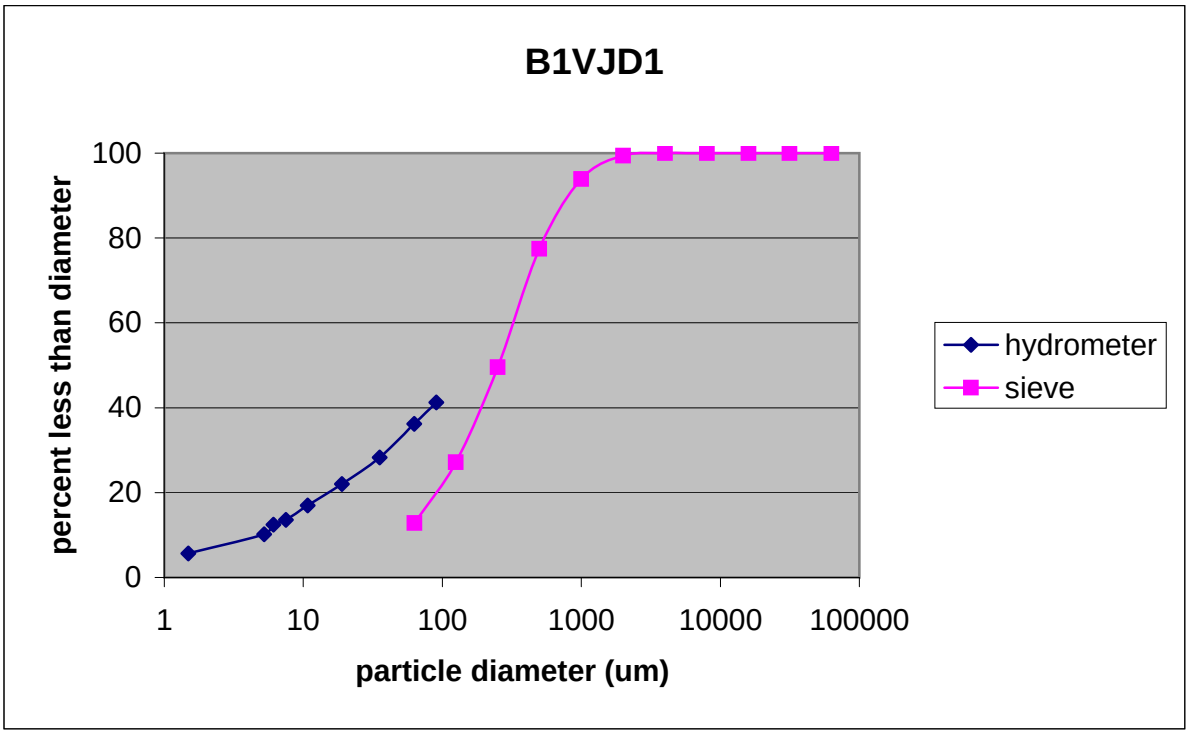
particle diameter (um)
hydrometer
sieve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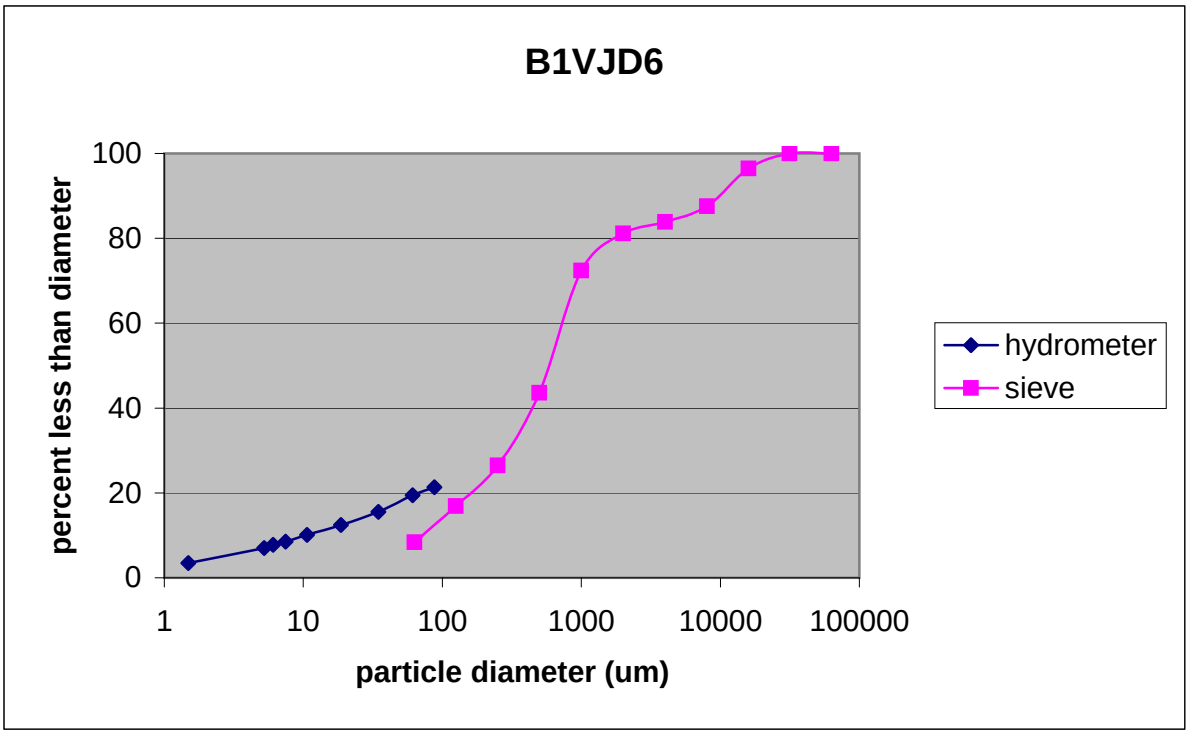
particle diameter (um)
hydrometer
sieve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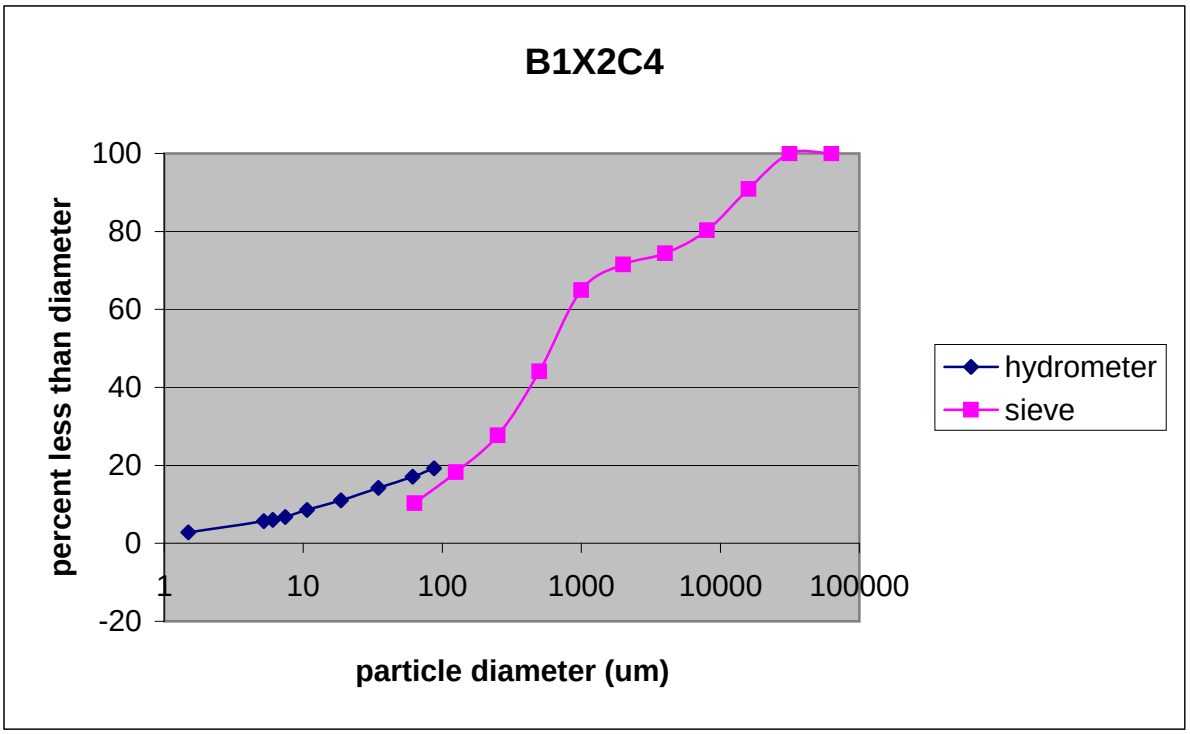
particle diameter (um)
hydrometer
sieve


B1X2C4
percent less than diameter
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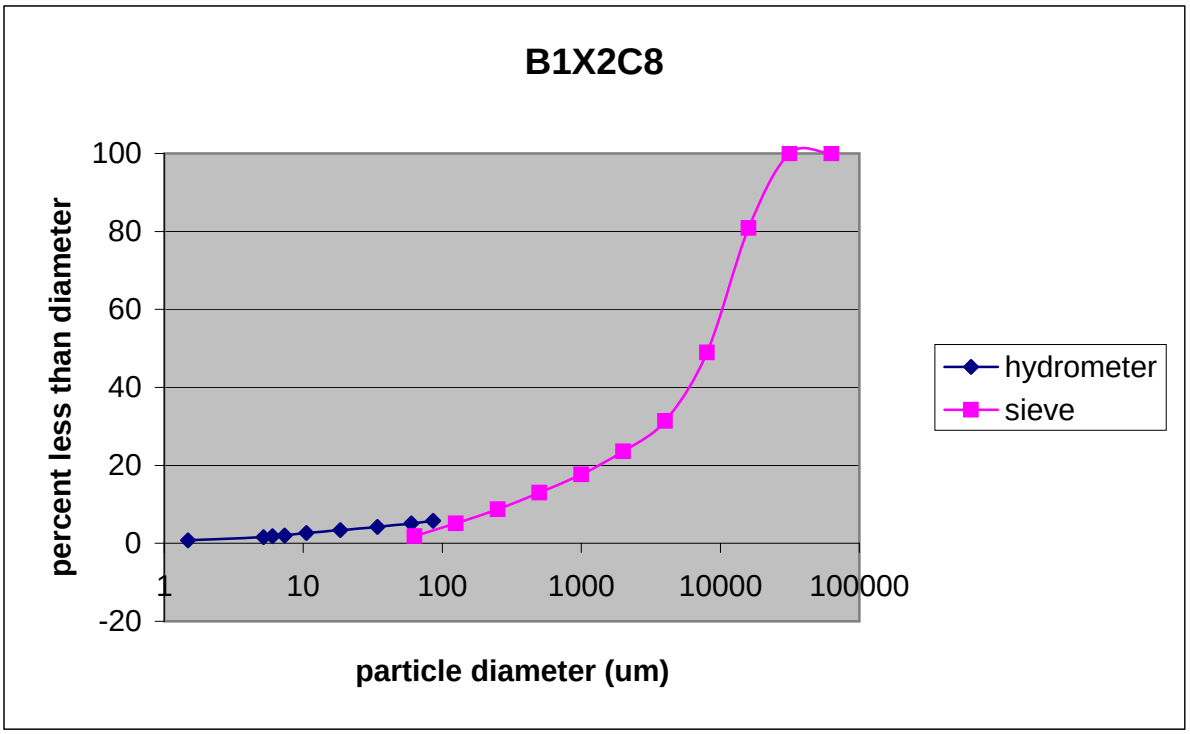
particle diameter (um)
hydrometer
sieve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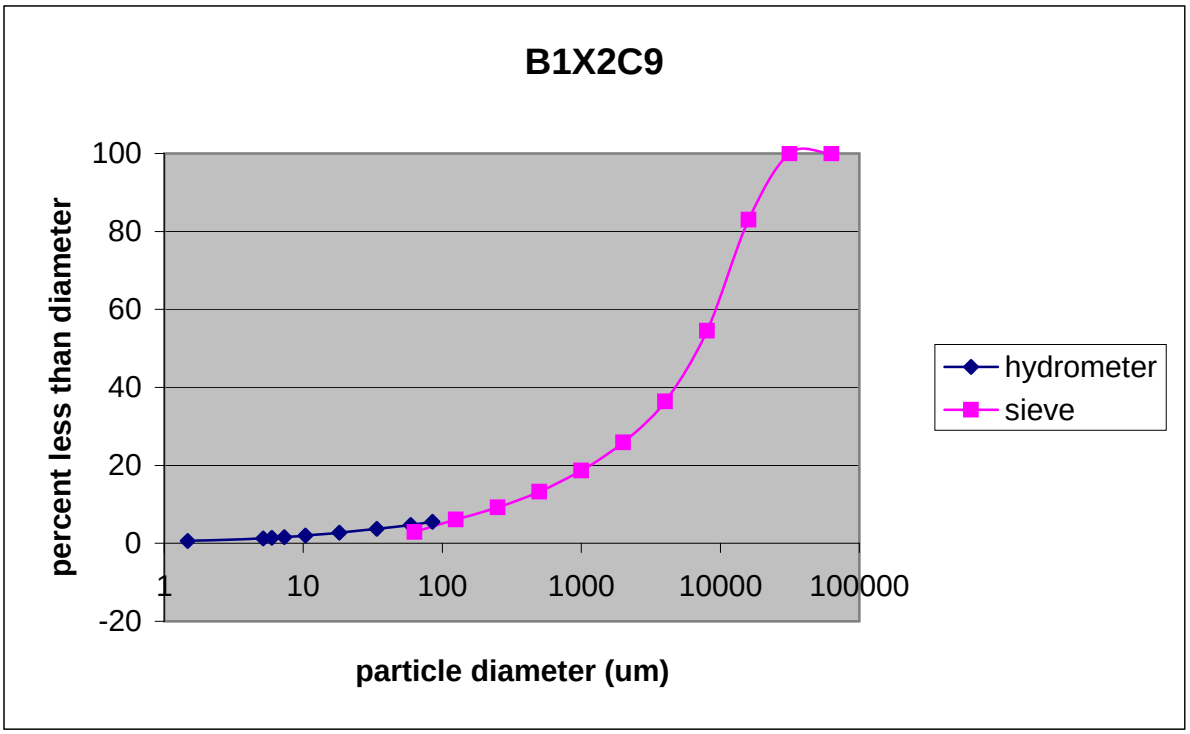
particle diameter (um)
hydrometer
sieve


B1X2C9
percent less than diameter
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80
60
40
20
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-20
1
10
100
1000
10000
100000
particle diameter (um)
hydrometer
sieve

Pacific Northwest National Laboratory	**GEOLOGIC LOG**	Boring/Well No C1o552	Depth 34.5 - 50	Date 9/17/08	Sheet 1 of 11
		Location	Project 216-A-5		

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Reviewed by (Print / Sign) Date
Lithologic Class. Scheme Folk - Wentworth Procedure Rev
Drilling Contractor
Driller
Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics)	COMMENTS
34.5 -	G	BIVJ77	SM		SG - sandy gravel. 60% pebbles. 40% fine sand. poorly sorted. loose. max pebble = 20 mm. 2.5Y 5/2 (grayish brown). pebbles sub-round, 70% basalt. no rxn to HCl.	G = grab samples from 11 pay horizons poured into plastic weigh boats
40 -	G	BIVJ78	SM		S coarse to v. coarse sand. trace Z & G. max = 2mm. loose w/ some (10%) mod. consol. agg. mod. sorted. 2.5Y 5/3 (lt. olive brown). 10% mafic. no rxn to HCl - consol. ~ 20mm.	G = gravel S = sand agg = aggregate consol = consolidation V. = very lt. = light Z = fines mod. = moderate
44.1 -	G	BIVJ79	SM		same as above. no consol. (loose)	
					same as above. loose. max part = 2mm.	
49 -	G	BIVJ80	SM			

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

Pacific Northwest National Laboratory	**GEOLOGIC LOG**	Boring/Well No C6552	Depth 56.5-75	Date 9/17/08	Sheet 2 of 11
		Location	Project 216-A-5		

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Reviewed by (Print / Sign) Date | Driller

Lithologic Class. Scheme Folk - Wentworth | Procedure | Rev | Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics)	COMMENTS
~~56.5~~ -	G	B1VJ81	SM		same as above. loose w/ 30% consol. max = 3mm pebble.	
59 -	G	B1VJ82	SM		same as above - but less v. coarse sand and more coarse sand (some med).	
		depth gap				
64.5 -	G	B1VJ83	SM		med. to v. coarse sand. mod. sorted. loose 10% mafic. 2.5Y 5/3 (lt. olive brown). consol. 10mm. max pebble - 2mm consol. - mod rxn to HCl. S- no rxn to HCl.	
		depth gap				
69.1 -	G	B1VJ84	SM		same as above. consol - 10%, 5-10mm.	
		depth gap				
74.5 -	G	B1VJ85	SM		S- med. to v. coarse sand. max size = v. coarse sand. 10-20% mafic. loose. mod to well sorted. 2.5Y 5/2 (grayish brown).	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

Pacific Northwest National Laboratory	**GEOLOGIC LOG**	Boring/Well No CV552	Depth 79.3-100	Date 9/17/08	Sheet 3 of 11
		Location	Project 216-A-5		

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Reviewed by (Print / Sign) Date
Lithologic Class. Scheme Folk - Wentworth Procedure Rev
Drilling Contractor
Driller
Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C	Z	S	G	LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics)	COMMENTS
79.3	G	BIVT86	SM					med. to coarse sand. well-sorted. 100% w/ 5-10% consol. agg. 5-10% mafic. 2.5Y 6/2 (lt. brownish gray). max size = v. coarse sand. consol - strong rxn to HCl. s- weak rxn to HCl.	
		break						break	
84.5	G	BIVT87	SM					med. to v. coarse sand. trace pebbles. - max = 2mm. 100%, mod - sorted. 10% mafic. 2.5Y 6/2 (lt. brownish gray)	
		break						break	
89.5	G	BIVJ88	SM					same as above w/ 5% pebbles - max = 4mm.	
		break						break	
94.5	G	BIVT89	SM					(g) s slightly gravelly sand. med to v. coarse sand. 90% 10% pebbles. max pebble = 4mm - 80% basalt. s- 20-30% mafic mod sorted. 100%. 2.5Y 5/2 (grayish brown).	
		break						break	
99.5	G	BIVJ90	SM					s- med to coarse sand. max part = v. coarse sand. loose. s- 10% mafic. mod sorted. 2.5Y 6/2 (lt. brownish gray). s- weak rxn to HCl, consol - strong rxn to HCl.	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

Pacific Northwest National Laboratory	GEOLOGIC LOG	Boring/Well No C6552 Location	Depth 104.5-130.5 Date 9/17/08 Project 216-A-5	Sheet 4 of 11

Logged by Michelle Valenta (Print) Michelle Valenta (Sign)

Reviewed by ______ Date ______

Lithologic Class. Scheme Folk-Wentworth Procedure ______ Rev ______

Drilling Contractor ______

Driller ______

Drill Method ______

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG (C Z S G)	LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics)	COMMENTS
104.5	G	B1VJ91	SM	S	S- med. sand. max. part = coarse sand loose well sorted 2.5Y 6/3 (lt. yellowish brown) 10% mafic	
				break		
109.5	G	B1VJ92	SM	S	S med. to v. coarse sand. trace G. pebbles, max = 3mm. loose mod-sorted. S- 20% mafic. 2.5Y 5/2 (grayish brown). some weak [illegible] (5%), 10mm. - strong rxn to HCl. S- weak rxn to HCl.	
					break	
114.5	G	B1VJ93	SM	S	S- med to coarse sand. max size = v coarse sand. med-sorted. loose w mod. consol agg. (30%) 2.5Y 6/2 (lt. brownish gray). 10% mafic. mod-rxn to HCl.	
				break		
119.5	G	B1VJ94	SM	S	same as above.	
				break		
124.5	G	B1VJ95	SM	S	S- med to v. coarse sand max = v. coarse sand loose mod sorted. 20% mafic. 2.5Y 6/2 (lt. brownish gray). mod. rxn to HCl	
				break		
130	G	B1VJ96	SM	S	S med to v. coarse sand trace G. max pebble = 3mm. mod. sorted loose w/ mod. consol agg (10%) 2.5Y 5/2 (grayish brown). 10-20% mafic. mod. rxn to HCl	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

Pacific Northwest National Laboratory	GEOLOGIC LOG	Boring/Well No C6552 Location 216-A-5	Depth 135-160.5 Date 9/17/08 Project 216-A-5	Sheet 5 of 11

Logged by Michelle Valenta Michelle Valenta

Reviewed by ______ Date ______

Lithologic Class. Scheme Folk-Wentworth Procedure ______ Rev ______

Drilling Contractor ______

Driller ______

Drill Method ______

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics	COMMENTS
135	G	B1VJ97	SM		S- fine to med. sand. trace Z. max = v. coarse sand. loose w/ mod consol. agg. (10%). 10% mafic. 2.5Y 6/2 (lt. brownish gray). mod. rxn to HCl. well-sorted.	
				break		
139.5	G	B1VJ98	SM		same as above. more consol. - 20% - 30%. larger pieces (20mm).	
				break		
144.5	G	B1VJ99	SM		S- fine to v. coarse sand. trace G. max pebble = 3mm. mod sorted. loose w/ some mod. consol. agg. (10%). 10-20% mafic. 2.5Y 6/2 (lt. brownish gray). S- mod. rxn to HCl. consol - strong rxn to HCl.	
				break		
149.5	G	B1VJB0	SM		S- fine to med. sand. max = v. coarse sand. mod sorted. loose w/ some consol agg. (10%, <10mm) 2.5Y 6/2 (lt. brownish gray). 10% mafic.	
				break		
154.5	G	B1VJB1	SM		med. to coarse sand. trace G. max pebble = 2mm. mod. sorted. loose w/ some consol. agg (5%, 10mm). 10-20% mafic. 2.5Y 6/2 (lt. brownish gray). mod. rxn to HCl.	
				break		
160	G	B1VJB2	SM		med. sand. trace G. max pebble = 3mm. well-sorted. loose w/ some small consol. <10mm, 5-10%. 2.5Y 6/2 (lt. brownish gray). 10% mafic.	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

Pacific Northwest National Laboratory	**GEOLOGIC LOG**	Boring/Well No C6552	Depth 1645-190	Date 9/11/08	Sheet 6 of 11
		Location 216-A-5	Project 216-A-5		

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Reviewed by (Print / Sign) Date

Lithologic Class. Scheme Folk-Wentworth Procedure Rev

Drilling Contractor

Driller

Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics)	COMMENTS
164.5	G	BIVJB3	SM		Med to v. coarse sand. trace G. max pebble = 3mm. loose. mod-sorted. 20% mafic. 2.5Y 6/2 (lt. brownish gray). weak rxn to HCl.	
					break	
169.5	G	BIVJB4	SM		med to coarse sand. max = v. coarse sand. well sorted. loose. some consol. agg. 2.5Y 6/2.	
					break	
174.5	G	BIVJB5	SM		same as above.	
					break	
179.5	G	BIVJB6	SM		med to coarse sand. well-sorted. loose. 2.5Y 6/2 (lt. brownish gray). 10% mafic. max = v. coarse sand.	
					break	
184.5	G	BIVJB7	SM		same as above. loose w/ consol. agg. (20%, 40mm). consol - strong rxn to HCl. S - weak rxn to HCl.	
					break	
189.5	G	BIVJB8	SM		same as above. consol. - 20%. trace G. max pebble: 3mm. mod. rxn to HCl.	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

Pacific Northwest National Laboratory	**GEOLOGIC LOG**	Boring/Well No C6552	Depth 194.5-220	Date 9/17/08	Sheet 7 of 11
		Location 216-A-5	Project 216-A-5		

Logged by Michelle Valenta (Print) Michelle Valenta (Sign) | (Print) | (Sign)

Reviewed by (Print) (Sign) Date

Lithologic Class. Scheme Folk - Wentworth Procedure Rev

Drilling Contractor

Driller

Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics)	COMMENTS
194.5	G	B1VJB9	SM		med to coarse sand. max = v. coarse sand. mod-sorted. loose w/ some mod. consol. (10%). 10-20% mafic. 2.5Y 6/2.	
					break	
199.5	G	B1VJC0	SM		S- med to v. coarse sand, 95%. 5% G. max pebble = 4mm. mod-sorted. loose w/ some consol. (30%). 2.5Y 6/2 (lt. brownish gray). pebbles basalt. S- 20% mafic.	
					break	
204.5	G	B1VJC1	M		same as above - more moisture, no visible gravel max = v. coarse sand 2.5Y 4/2 (dk. grayish brown). one large consol. agg w/ Z - strong rxn to HCl. S- mod. rxn to HCl.	
					break	
209.5	G	B1VJC2	SM		(g)S- slightly gravelly sand. 10% G, 90% fine to v. coarse sand. max pebble = 4mm. mod-sorted. loose w/ some consol agg (5-10%) 2.5Y 6/2 (lt. brownish gray). S- 20% mafic. mod. rxn to HCl.	
					break	
214.5	G	B1VJC3	SM		same as above. max pebble = 4mm. 50% mafic- pebbles.	
					break	
219.5	G	B1VJC4	SM		S- med to coarse sand. max- v. coarse sand. well-sorted. loose w/ mod. consol. (10%). 10% mafic. 2.5Y 6/2 (lt. brownish gray)	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

Pacific Northwest National Laboratory	**GEOLOGIC LOG**	Boring/Well No C0552	Depth 225.3 - 235	Date 9/17/08	Sheet 8 of 11
		Location 216-A-5	Project		

Logged by Michelle Valenta (Print) Michelle Valenta (Sign) | (Print) | (Sign)

Reviewed by | Date

Lithologic Class. Scheme Folk-Wentworth (Print) (Sign) | Procedure | Rev

Drilling Contractor

Driller

Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C	Z	S	G	LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics)	COMMENTS
2253	G	B1VJC5	SM					S-med to coarse sand. well-sorted. max = V. coarse sand. loose. w/some consol. agg. (20%). 2.5Y 6/2. 10% mafic.	
2295	G	B1VJC6	SM					same as above trace consol. weak rxn to HCl.	
2345	G	B1VJC7	SM					med to coarse sand well-sorted. max = V. coarse sand. loose w/ 5-10% consol. 2.5Y 6/3 (lt. yellowish brown). 10% mafic.	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

Pacific Northwest National Laboratory	**GEOLOGIC LOG**	Boring/Well No C6552	Depth 239.5-265 Date 9/18/08	Sheet 9 of 11
		Location	Project 216-A-5	

Logged by Michelle Valenta Michelle Valenta (Print / Sign / Print / Sign)
Reviewed by (Print / Sign) Date
Lithologic Class. Scheme Folk - Wentworth Procedure Rev
Drilling Contractor
Driller
Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics)	COMMENTS
239.5	G	B1VJC8	SM		S- med. sand. well sorted. loose w/ some consol. agg (5%, <5mm) 2.5Y 6/2 (lt. brownish gray). max = v. coarse sand. & mod rxn to HCl. consol - strong rxn to HCl.	
			break			
244.5	G	B1VJC9	SM		same as above. more consol. - w/ visible white substance - strong rxn to HCl	
			break			
249.5	G	B1VJD0	SM		same as above. consol. pieces larger (5-10mm)	
			break			
254.8	G	B1VJD1	M		(m)S Slightly muddy sand. 80% v. fine to fine sand. 20% f. well-sorted. mod. consol. agg 0% f. max size = med. sand. 2.5Y 4/2 (dark grayish brown). strong rxn to HCl.	
			break			
258.5	G	B1VJD2	SM		(g)S - Slightly gravelly sand. 10% pebbles, 85% fine to v coarse sand, 5% f. max pebble = 7mm. poorly sorted. loose. 2.5Y 6/2 (lt. brownish gray). pebbles - 60% basalt, s - 10-20% mafic.	
			break			
264.5	G	B1VJD3	SM		gS - gravelly sand. 15% pebbles, 80% v. fine to v. coarse sand, 5% f loose. poorly sorted. pebbles - 80% basalt, sub-round. s - 20% mafic. 2.5Y 6/2 (lt. brownish gray). s - weak rxn to HCl.	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

Pacific Northwest National Laboratory	**GEOLOGIC LOG**	Boring/Well No C6552	Depth 269.5-295	Date 9/18/02	Sheet 10 of 11
		Location 216-A-5	Project		

Logged by Michelle Valenta Michelle Valenta | Drilling Contractor

Reviewed by | Date | Driller

Lithologic Class. Scheme Folk - Wentworth | Procedure | Rev | Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C Z S G	LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics)	COMMENTS
269.5	G	BIVJD4	SM		S- med TO V. coarse sand - trace pebbles + Z, max pebble = 3mm. mod-sorted - loose, mod consol agg w/ Z (5%). 30% mafic. 2.5Y 6/2 (lt. brownish gray). S- weak to no rxn to HCl.	
			break			
274.5	G	BIVJD5	SM		(G)S- Slightly gravelly sand. 10% pebbles, 90% fine to V. coarse sand - max pebble = 10mm. pebbles - 70% basalt, sub-angular. S- 20% mafic loose, poorly sorted 2.5Y 6/2 (lt. brownish gray).	
			break			
279.5	G	BIVJD6	SM		(m)(g)S- Slightly muddy Slightly gravelly sand. 5% G, 85% V. fine to fine sand, 10% Z. poorly sorted loose w/ some consol (20%). max pebble = 15mm. S- 10% mafic. 2.5Y 6/2 (lt. brownish gray). S- weak rxn to HCl. consol- mod rxn to HCl.	
			break			
285.3	G	BIVJD7	SM		S- V. fine TO coarse sand- trace G + Z. max pebble = 10mm. mod-sorted loose w/ mod. consol agg (20%) larger agg. (up to 50mm) 2.5Y 6/2 (lt. brownish gray).	
			break			
289.5	G	BIVJD8	SM		same as above - max pebble = 10mm. less consol. (only 5%) weak rxn to HCl.	
			break			
294.5	G	BIX2C4	SM		(m)GS- Slightly Muddy gravelly sand. pebbles- 20%, 70% V fine to fine sand, 10% Z. poorly sorted. loose. 2.5Y 6/2. pebbles - 60% basalt, broken, weak rxn to HCl.	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

Pacific Northwest National Laboratory	**GEOLOGIC LOG**	Boring/Well No C6552	Depth 299.5-325	Date 9/18/18	Sheet 11 of 11
		Location	Project 216-A-5		

Logged by Michelle Valenta (Print) Michelle Valenta (Sign) | (Print) (Sign)

Reviewed by (Print) (Sign) Date

Lithologic Class. Scheme Folk-Wentworth Procedure Rev

Drilling Contractor

Driller

Drill Method

DEPTH (ft)	SAMPLES TYPE	SAMPLES ID NUMBER	MOISTURE	GRAPHIC LOG C	Z	S	G	LITHOLOGIC DESCRIPTION (sediment class, range in particle size, maximum particle size, mafic %, sorting, roundness, color, consolidation, reaction to 10% HCl, structure, fabric, and any other characteristics)	COMMENTS
299.5	G	B1X2C5	SM					(g)S - Slightly gravelly sand. 10% pebbles, 85% fine sand, 5% Z. max pebble = 10mm. poorly sorted. loose w/ some consol. (10%) 2.5Y 6/2. pebbles - basalt, sub-angular. S - 10%. Weak rxn to HCl	
		break							
304.5	G	B1X2C6	SM					(g)S - 5% pebbles, 90% fine to v. coarse sand, 5% Z. max pebble = 10mm. poorly sorted loose w/some consol. (10%) - 2.5Y 6/2 pebbles + sub-ang. to sub-round, 30% basalt.	
		break							
310.0	G	B1X 2C7	SM					(m)gS - slightly muddy gravelly sand. 30% pebbles, 40% V. fine to fine sand, 10% Z. pebble - max = 15mm, sub-ang. to sub-round (broken pieces), 70% basalt. 2.5Y 6/2 (grayish brown). poorly sorted, loose. no rxn to HCl.	
		break							
314.5	G	B1X2C8	SM					msG - muddy sandy gravel / 70% G, 20% S, 10% Z. max pebble = 15mm, 70% basalt, (broken pieces), sub-round. loose. poorly sorted. 2.5Y 5/2 (grayish brown).	
		break							
319.5	G	B1X2C9	W					msG - 80% G, 10% sand, 10% Z. max pebble = 15mm. poorly sorted. pebbles - 80% basalt, sub-round, (broken pieces). 2.5Y 4/1 (dark gray)	standing water
		break							
324.5	G	B1X2D0	M					msG - muddy sandy gravel. 70% G, 25% S, 5% Z. max pebble = 10mm, sub-round, 70% basalt. loose. poorly sorted. 2.5Y 4/1 (dark gray).	

W = Wet, M = Moist, SM = Slightly Moist, D = Dry

2008/DCL/FORMS/GeoLog/001 (03/18)

C6552_B1VJ77
Borehole ID Sample Number

34.5-35.0 ft
Depth from Chain-of-Custody

Grab Sample

C6552 B1VJT78

Borehole ID Sample Number

40.0-40.5 ft

Depth from Chain-of-Custody

Grab Sample

C6552 B1VJ79
Borehole ID Sample Number

44.1-44.7 ft
Depth from Chain-of-Custody

Grab Sample

C6552 Borehole ID

B1VJ80 Sample Number

49.0-49.6 ft Depth from Chain-of-Custody

Grab Sample

C6552 B1VJ81 54.5-55.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJ82 59.0-59.5 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJ83

Borehole ID Sample Number

64.5-65.0 ft

Depth from Chain-of-Custody

Grab Sample

C6552 B1VJ84 69.7-70.2 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VI85 74.5-75.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 Borehole ID

B1VJ86 Sample Number

79.3-79.8 ft Depth from Chain-of-Custody

Grab Sample

C6552 B1VJ87 84.5-85.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552
Borehole ID

B1VJ88
Sample Number

89.5-90.0 ft
Depth from Chain-of-Custody

Grab Sample

C6552 B1VJ89 94.5-95.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJ90 99.5-100.0 ft Grab Sample

Borehole ID Sample Number Depth from Chain-of-Custody

C6552 B1VT91 104.5-105.0 ft Grab Sample

Borehole ID Sample Number Depth from Chain-of-Custody

C6552 B1VJ92 109.5-110.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJ93 114.5-115.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJ94 119.5-120.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJ95 124.5-125.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJ96 130.0-130.5 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJ97 135.0-135.5 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJ98 139.5-140.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJ99 144.5-145.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJB0 149.5-150.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJB1 154.5-155.0 ft Grab Sample

Borehole ID Sample Number Depth from Chain-of-Custody

C6552 B1VJB2 160.0-160.5 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJB3 164.5-165.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJB4 169.5-170.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJB5 174.5-175.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJB6 179.5-180.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJB7 184.5-185.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJB8 189.5-190.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJB9 194.5-195.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJC0 199.5-200.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJC1 204.5-205.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJC2 209.5-210.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VTC3 214.5-215.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJC4 219.5-220.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJC5 225.3-225.8 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJC6 229.5-230.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJC7 234.5-235.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJC8 239.5-240.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJC9 244.5-245.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJD0 249.5-250.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJD1 254.8-255.3 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJD2 258.5-259.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VID3 264.5-265.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJD4 269.5-270.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJD5 274.5-275.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJD6 279.5-280.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJD7 285.3-285.8 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1VJD8 289.5-290.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1X2C4 294.5-295.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1X2C5 299.5-300.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1X2C6 304.5-305.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1X2C7 310.0-310.5 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552_B1X2C8 314.5-315.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1X2C9 319.5-320.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

C6552 B1X2D0 324.5-325.0 ft Grab

Borehole ID Sample Number Depth from Chain-of-Custody Sample

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-004	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
KAUER BATES & PFISTER	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C6552, I-005	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin	F08-128

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
	HNF-N-585-2	34.5-35	123124ES10	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
Environmental Sciences Laboratory	N/A RP 6-11-08	N/A

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VHY2

PRESERVATION	~~None~~ Cool~4C	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ77	SOIL	6-25-08	1015	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/	6-25-08/1047	Site Rig #1	6-25-08 1047
Site Rig #1	7-1-8 1100	D Connelly	7-1-8 1100
D Connelly	7-1-8 1345	M0745 Ref 1	7-1-8 1345
M0745 Frig #1	7/2/08 0900	Bratheim/	7/2/8 0900
Bratheim/	7/2/08 915	C. Louw	7/2/08 915

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-004	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-005	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585-2	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-006	PAGE 1 OF 2
COLLECTOR KAUER / MCINTYRE/Rosam	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N **AIR QUALITY** ☐	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-006	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585-2	**ACTUAL SAMPLE DEPTH** 40.0 - 40.5	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VHY3

PRESERVATION	~~None~~ Cool~4C	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1VJ78	SOIL	7/7/08	14:45										
	Lot #			313944	324870	N/A							

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Losane Larry Losane	7-7-08/1500	A-5 Ref	7-7-08/1500
A-5 Ref	7-10-8 0830	D Cannity	7-10-8 0830
D Cannity	7-10-8 1330	D Smith	7-10-8 1330

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-006	PAGE 2 OF 2
COLLECTOR Rosanne KAUER McINTYRE	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-006	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585-2	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-008	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Kauer / McIntyre	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-007	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.** 2653	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585-2	44.1' - 44.7'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A RB 6-11-08		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VHY4

PRESERVATION	None Cool~4C.	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ79	SOIL	7-8-08	1030	✓	✓	✓

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM / DATE/TIME	RECEIVED BY/STORED IN / DATE/TIME	
Ed Kauer / [signature] 7-8-08	1045	Site Ref #1 7-8-08 1045
Site Ref #1 7-14-08	1125	Ed Kauer / [signature] 7-14-08 1125
Ed Kauer / [signature] 7-14-08	1415	C. Journ 7/14/08 1415

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-008	PAGE 2 OF 2
COLLECTOR Kaver / McIntyre	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-007	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585-2	**ACTUAL SAMPLE DEPTH** 44.1' - 44.7'	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-010	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Kauer / McEntyre	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-008	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585-2	49' - 49.6'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A PO 6-11-08		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VHY5

PRESERVATION	~~None~~ Cool~4C	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ80	SOIL	7-8-08	1300	✓	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
ARMcEntyre / [illegible]	7/8/08 1530	Site Ref #1	7-8-08 1530
Site Ref #1	7-14-08 1125	Ed Kauer / [illegible]	7-14-08 1125
Ed Kauer / [illegible]	7-14-08 1415	C. Jouvin	7/14/08 1415
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-010	PAGE 2 OF 2
COLLECTOR Kaser / McIntyre	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-008	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585-2	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-012	PAGE 1 OF 2
COLLECTOR Kaver / McIntyre	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-010	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585-2 Pg 53	**ACTUAL SAMPLE DEPTH** 54.5'-55.0'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VHY7

PRESERVATION	None Cool 4C DB 6-11-08	Cool~4C/Cool~4C	None		
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont		
NO. OF CONTAINER(S)	1	1	1		
VOLUME	1L	60mL	200g		
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;		
Lot #	031204	024870			

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ81	SOIL	7-8-08	1455	✓	✓	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
AR McIntyre / [signature]	7-8-08 / 1530	A-5 site fridge #1	7-8-08 / 1530
A5 site Ref #1	7-14-08 / 1125	Ed Kaver / [signature]	7-14-08 1125
Ed Kaver / [signature]	7-14-08 1415	C. Irvin [signature]	7/14/08 1415

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-012	PAGE 2 OF 2
COLLECTOR Kauer / McIntyre	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-010	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** Pg 53 HNF-N-385-2	**ACTUAL SAMPLE DEPTH** 54.5' - 55.0'	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-014	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Kaiser, Rosane, McIntyre	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-012	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585-2	59 to 59.5	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VHY9

Lot #

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;
	031204	024870	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ82	SOIL	07-09-08	0912	✓	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
E. Kaiser / [signature]	07-09-08 / 1600	Site Ref	07-09-08 / 1600
Site Ref	07-14-08 11:25	Ed Kaiser / [signature]	7-14-08 1125
Ed Kaiser / [signature]	7-14-08 1415	CIDVN	7/14/08 1415

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F08-128-014	PAGE 2 OF 2
COLLECTOR Kause, Resnick, McIntyre	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N **AIR QUALITY** ☐ **DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-012	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585-2	**ACTUAL SAMPLE DEPTH** 59 to 59.5	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-016	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Kauer, Rosane, McIntyre	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-014	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585-2 Pg 54	64.5' - 65'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ01

Lot

PRESERVATION	~~None~~ Cool 4C	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ83	SOIL	~~7-9-08~~	1234	✓	✓	✓
		7/21/08	1235			
	LOT #			034204	024870	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/Ed McIntyre	7/21/08 1400	Site Ref	7-21-08 1300
Site Ref	7/24/08 0930	K. C. Patterson	7/24/08 0930
K. C. Patterson	7/24/08 1510	C Doun	7/24/08 1510

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-016	PAGE 2 OF 2
COLLECTOR KAUR, ROSARE MCINTYRE	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-014	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** P554 HNF-N-585-2	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-128-018 PAGE 1 OF 2

COLLECTOR Mueller	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C6552, I-015	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 69.7 - 76.2	**COA** 123124ES10
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N **DATA TURNAROUND**

AIR QUALITY ☐ 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

08 6 11-08

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ02

PRESERVATION	~~None~~ Cool 4C	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ84	SOIL	7/22/8	1005	\	\	\
	LOT #			631204	024870	N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Mueller	7/22/8 1520	A-5 Site Frig.	7-22-08-1520
A5 site Fridge	7/24/08 0930	Kevin Patterson Fluor Hanford	7/24/08 0930
Kevin Patterson Fluor Hanford	7/28/08 1343	Kevin Miller	7/28/08 1343

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-018	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-015	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-020	PAGE 1 OF 2

COLLECTOR Moulek	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N; **DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-016	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 74'5-75'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ03

PRESERVATION	~~None~~ Cool 4C (DO 6-11-08)	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;
LOT #	031204	024870	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ85	SOIL	7/22/8	1022	→	\	\

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Moulek / [signature]	7/22/8-1520	A-5 Site Frig	7-22-08-1520
A5 Site Fridge	7/28/08 0930	Kevin Patterson Fluor Hanford [signature]	7/28/08 0930
Kevin Patterson Fluor Hanford [signature]	7/28/08 1343	Kevin Miller [signature]	7-28-08 1343

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-020	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-016	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-022	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Mueller	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-017	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
		79.3 - 79.8	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A	036 11-08	N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ04

PRESERVATION	None ~~Cool 4C~~	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 031804	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 024870	Moisture Content - D2216; N/A

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ86	SOIL	7/22/8	1305	~	~	~

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mueller	7/22/8-1520	A-5 Site Frig.	7-22-08-1520
A-5 site Fridge	7/28/08 0930	Kevin Patterson Fluor Hanford	7/28/08 0930
Kevin Patterson Fluor Hanford	7/28/08 1343	Kevin Miller	7-28-08 1342

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-022	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-017	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-024	PAGE 1 OF 2

COLLECTOR Mokler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N **AIR QUALITY** ☐ **DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-018	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 845-85'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ05

PRESERVATION	~~None~~ Cool 4C (DB 6 11-08)	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;
Lot #	031201	024870	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ87	SOIL	7/22/8	1335	✓	✓	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Mokler [signature]	7/22/8-1520	A5 Site Frig.	7-22-08 -1520
A5 Site Fridge	7/29/08 0930	Kevin Patterson [signature]	7/29/08 0930
Kevin Patterson [signature]	7/29/08 1343	Kevin Miller [signature]	7-29-08 1343

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-024	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-018	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-026	PAGE 1 OF 2
COLLECTOR Mark Fix	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-019	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 89.5-90'	**COA** 123124ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A 03 6-11-08		**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ06 Lt*

PRESERVATION	~~None~~ Cool~4C	Cool~4C/Cool~4C	None										
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont										
NO. OF CONTAINER(S)	1	1	1										
VOLUME	1L	60mL	200g										
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 031204	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 024870	Moisture Content - D2216; N/A										
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**										
B1VJ88	SOIL	7/22/8	1410	—	—	→							

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	7/22/8-1520	A-5 Site Frig	7-22-08-1520
A5 SITE Fridge	7/28/08 0930	Fluor Hanford	7/28/08 0930
Kevin Patterson Fluor Hanford	7/28/08 1343	Kevin Miller	7-28-08 1343

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-026	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-019	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-028	PAGE 1 OF 2

COLLECTOR Mokler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-020	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 94.5-95'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ07

PRESERVATION	~~None~~ Cool 4C (DB 6-11-08)	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;
Lot #	031204	024810	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ89	SOIL	7/22/8	1445	✓	✓	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Mokler [signature]	7/22/8-1520	A-5 Site Frig.	7-22-08-1520
A5 Site Fridge	7/28/08 0920	Kevin Patterson Fluor Hanford [signature]	7/28/08 0920
Kevin Patterson Fluor Hanford [signature]	7/28/08 1343	Kevin Miller [signature]	7-28-08 1343

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-028	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-020	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-030	PAGE 1 OF 2

COLLECTOR Moalek	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C6552, I-021	PROJECT DESIGNATION 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		SAF NO. F08-128	AIR QUALITY ☐
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH 99.5 -100'	COA 123124ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE
SHIPPED TO Environmental Sciences Laboratory	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A	

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS				
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegitation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	~~None~~ Cool 4C (DB 6 11-08)	Cool~4C/Cool~4C	None
		TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
		NO. OF CONTAINER(S)	1	1	1
		VOLUME	1L	60mL	200g
	SPECIAL HANDLING AND/OR STORAGE Radioactive Tie To: B1VJ08	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;
	Lot #		031204	024970	N/A

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ90	SOIL	7/24/08	0815	✓	✓	✓

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM D. Moalek / [signature]	7/24/08-1500	A-5 SITE REF	7/24/08-1500
A-5 Site Ref	7/31/08 0800	Jubal Helms / Jubal Helms	7/31/08 0800
Jubal Helms / Jubal Helms	7/31/08 1230	Kevin Miller / Kevin Miller	7/31/08 1230

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-030	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-021	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-032	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
K. Young	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-023	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
		104.5-105	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ10

PRESERVATION	~~None~~ Cool 4C 03 6-11-08	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;
Lot #	031204	024870	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ91	SOIL	7-24-08	13:55	✓	✓	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mukta [signature]	7/24/08-1500	A5 Site REF	7/24/08-1500
A-5 Site Ref	7/31/08 0800	Jubal Helms / Jubal Helms	7/31/08 0800
Jubal Helms / Jubal Helms	7/31/08 1230	Kevin Miller / Kevin Miller	7/31/08 1230

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-032	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-023	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-034	PAGE 1 OF 2
COLLECTOR Mourlam	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-024	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 109.5 -> 110	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ11

PRESERVATION	~~None~~ Cool~4C	Cool~4C/Cool~4C	None											
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont											
NO. OF CONTAINER(S)	1	1	1											
VOLUME	1L	60mL	200g											
SAMPLE ANALYSIS LOT #	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 03,204	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 024870	Moisture Content - D2216;											
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**											
B1VJ92	SOIL	7/24/8	1440	✓	✓	✓								

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mourlam	7/24/8-1500	A-5 SITE REF	7/24/8-1500
A-5 Site Ref	7/31/08 0800	Jubal Helms/Jubal Helms	7/31/08 0800
Jubal Helms/Jubal Helms	7/31/08 1230	Kevin Miller Kevin Miller	1230

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-034	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-024	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F08-128-036	PAGE 1 OF 2
COLLECTOR Moklev	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N **DATA TURNAROUND**
SAMPLING LOCATION C6552, I-025	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐ 45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 114.5 - 115.0'	**COA** 123124ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A 0961-01		**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ12

PRESERVATION	~~None~~ Cool 4C	Cool~4C/Cool~ 4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS Lot# 031204	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 024870	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1VJ93	SOIL	8-4-08	0935

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Herrick J. Herrick	8-4-08 1442	A5 Fridge	8-4-08 1442
A5 FRIDGE	8/7/8-0825	J. Mualem	8/7/8-0825
J. Mualem	8/7/8 1305	Kevin Miller Kevin Miller	8/7/08 1305

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-036	PAGE 2 OF 2
COLLECTOR Mokler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-025	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 114.5'-115.0'	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-038	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Mokler	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-026	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585 2	119.5'-120.0'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ13

PRESERVATION	~~None~~ Cool 4C (DB 6-11-08)	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;
LOT #	032004	024870	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ94	SOIL	8-4-08	1025	X	X	X

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Herrick J. Herrick	8-4-08 1424	A-5 Site Fridge	8-4-08 1424
AS FRIDGE	8/7/8 0825	J. Mueller [signature]	8/7/8 0825
J. Mueller [signature]	8/7/8 1305	Kevin Miller Kevin Miller	8/7/08 1305

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-038	PAGE 2 OF 2
COLLECTOR Mckley	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-026	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 119.5'-120.0'	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-040	PAGE 1 OF 2
COLLECTOR Mokler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-027	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 124.5'-125'	**COA** 123124ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A OB 6 11-08		**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ14

PRESERVATION	~~None~~ Cool 4C	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS Lot #	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 03/2004	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 024810	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ95	SOIL	8-4-08	1245	X	X	X

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Herrick	8-4-08 1442	A-5 FRIDGE	8-4-08 1442
A5 FRIDGE	8/7/8 0825	J Mokler	8/7/8 0825
J. Mokler	8/7/8 1305	Kevin Miller	8/7/08 1305

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-040	PAGE 2 OF 2
COLLECTOR Makley	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-027	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 124.5' - 125'	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-042	PAGE 1 OF 2
COLLECTOR Mckler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-029	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 130 - 130.5'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ17

PRESERVATION	~~None~~ Cool 4C (08 6-11-08)	Cool~4C/Cool~4C	None										
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont										
NO. OF CONTAINER(S)	1	1	1										
VOLUME	1L	60mL	200g										
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;										

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1VJ96	SOIL	8/4/8	1455	—	—	—							
				021670	025505								

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Mowat	8/4/8 1500	AS FRIDGE	8/4/08 1500
AS FRIDGE	8/7/8-0825	J Mowat	8/7/8-0825
J Mowat	8/7/8 1305	Kevin Miller	8/7/08 1305

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-042	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-029	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-044	PAGE 1 OF 2

COLLECTOR Mueller	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N; **DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-030	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 135'-135.5'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ17

PRESERVATION	~~None~~ Cool 4C (DB 6-11-08)	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 028846	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ97	SOIL	8/5/8	0858	✓	✓	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mueller	8/5/8 1000	A5 SITE REF	8/5/8-1000
A5 FRIDGE	8/7/8-0825	J. Mueller	8/7/8 0825
J. Mueller	8/7/08 1305	Kevin Miller	8/7/08 1305

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-044	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-030	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-046	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
McKler	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-031	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585 2	139.5' - 140.0'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ18

OB 6 11-08

PRESERVATION	~~None~~ Cool 4C	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS c38152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS c28848	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJ98	SOIL	8-11-08	1300	✓	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. McKler	8-11-08 1525	A-5 Site Fridge	8/11/08 1525
A5 site Fridge	AUG 18 2008 1000	Kevin Patterson Fluor Hanford	AUG 18 2008 1000
Kevin Patterson Fluor Hanford	AUG 18 2008 1330	Kevin Miller	8/18/08 1330

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

SDG ESL080026

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

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-046	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-031	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-048	PAGE 1 OF 2
COLLECTOR MoKler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-032	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 144.5' - 145.0'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ19

PRESERVATION	~~None~~ Cool 4C	Cool~4C/Cool~4C	None	
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont	
NO. OF CONTAINER(S)	1	1	1	
VOLUME	1L	60mL	200g	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 021673	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 028846	Moisture Content - D2216;	

08 6 11-08

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1VJ99	SOIL	8-11-08	1357	✓	✓	✓							

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. MoKler	8-11-08 1525	A-5 Site Fridge	8/4/8-1525
A-5 Site Fridge	AUG 18 2008 1000	Kevin Patterson Fluor Hanford	AUG 18 2008 1000
Kevin Patterson Fluor Hanford	AUG 18 2008 1330	Kevin Miller	Kevin Miller 8/18/08 1330

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

SDG # ESL 082026

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-048	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-032	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-050	PAGE 1 OF 2
COLLECTOR	**COMPANY CONTACT**	**TELEPHONE NO.**	**PROJECT COORDINATOR**	**PRICE CODE** 8N	**DATA TURNAROUND**
Mokler	TRENT, SJ	373-5869	WIDRIG, DL	**AIR QUALITY** ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-033	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585 2	149.5' - 150.0'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ20

DBL 11-08

PRESERVATION	~~None~~ cool 4C	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL 028946	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 021673	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 028946	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJB0	SOIL	8-11-08	1425	✓	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mokler	8-11-08 1525	A-5 Site Fridge	8/11/08 1525
A-5 Site Fridge	AUG 18 2008 1002	Kevin Patterson Fluor Hanford	AUG 18 2008 1000
Fluor Hanford	AUG 18 2008 1330	Kevin Miller	8/18/08 1330

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

SDG ESL080026

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-050	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-033	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F08-128-052	PAGE 1 OF 2
COLLECTOR	**COMPANY CONTACT**	**TELEPHONE NO.**	**PROJECT COORDINATOR**	**PRICE CODE** 8N / **DATA TURNAROUND**
MoKler	TRENT, SJ	373-5869	WIDRIG, DL	
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐ / 45 Days / 45 Days
C6552, I-034	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**
	HNF-N-585 2	154.5' - 155.0'	123124ES10	GOVERNMENT VEHICLE
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**	
Environmental Sciences Laboratory	N/A		N/A	

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ21

PRESERVATION	~~None~~ cool 4 C	Cool~4C/Cool~4C	None	
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont	
NO. OF CONTAINER(S)	1	1	1	
VOLUME	1L	60mL	200g	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;	
	021673	028846		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1VJB1	SOIL	8-11-08	1505	✓	✓	✓							

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. McKler	8-11-08 - 1525	A-5 Site Fridge	8/11/8-1525
A-5 Site Fridge	AUG 18 2008 / 1022	Kevin Patterson Fluor Hanford	AUG 18 2008 / 1022
Kevin Patterson Fluor Hanford	AUG 18 2008 / 1330	Kevin Miller	8/18/08 1330

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

SDG# ESLU80026

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-052	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-034	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-066	PAGE 1 OF 2
COLLECTOR Morton	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-042	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N 585 2	**ACTUAL SAMPLE DEPTH** 189.5-190'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ29

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJB8	SOIL	8/13/8	0822	1	1	

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. M. Morton	8/13/8-1520	A5 SITE REF	8/13/8-1520
A-5 SITE FRIDGE	AUG 19 2008 0800	Kevin Patterson Fluor Hanford	AUG 19 2008 0800
Kevin Patterson Fluor Hanford	AUG 19 2008 1305	Kevin Miller	8/19/08 1305

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
SDG ESL08C026

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-066	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-042	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-068	PAGE 1 OF 2
COLLECTOR Munter	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-043	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 194.5'-195.0'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ30

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 076004	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1VJB9	SOIL	8-13-08	0900

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Munter	8/13/08-1520	A5 SITE FRIDGE	8/13/08-1520
A-5 SITE Fridge	AUG 19 2008 0800	Kevin Patterson Fluor Hanford	AUG 19 2008 0800
Kevin Patterson Fluor Hanford	AUG 19 2008 1305	Kevin Miller	8/19/08 1305

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
SDG ESL080026

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-068	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-043	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-070	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Mualem	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-044	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585 2	199.5'-200'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ31

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026004	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1VJC0	SOIL	8/13/8	0945	✓	✓	✓							

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mualem	8/13/8-1520	A-5 SITE FRIDGE	8/13/8-1520
A-5 SITE Fridge	AUG 19 2008 0800	Kevin Patterson Fluor Hanford	AUG 19 2008 0800
Kevin Patterson Fluor Hanford	AUG 19 2008 1305	Kevin Miller Kevin Miller	08/19/08 1305

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

SDG ESL080026

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-070	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-044	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH** 199.5 200'	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-072	PAGE 1 OF 2
COLLECTOR Mokler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-045	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-5852	**ACTUAL SAMPLE DEPTH** 204.5' - 205.0'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ32

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026336	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJC1	SOIL	8-13-08	1435	✓	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mokler	8-13-08 1520	A-5 Site Fridge	8/13/8 1520
A-5 Site Fridge	AUG 19 2008 0500	Kevin Patterson Fluor Hanford	AUG 19 2008 0500
Kevin Patterson Fluor Hanford	AUG 19 2008 1305	Kevin Miller	8/19/08 1505

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
SDG ES1050026

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-072	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-045	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-074	PAGE 1 OF 2
COLLECTOR Mueller	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-046	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 209.5' TO 210.0'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ33

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026004	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1VJC2	SOIL	8-14-08	1045

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Mueller	8/14/08 1530	A-5 Fridge	8/14/08 1530
A-5 Site Truck	AUG 19 2008 0500	Kevin Patterson Fluor Hanford	AUG 19 2008 0500
Kevin Patterson Fluor Hanford	AUG 19 2008 1305	Kevin Miller	8/14/08 1305

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

SDG ESL080026

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-074	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-046	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-076	PAGE 1 OF 2
COLLECTOR	**COMPANY CONTACT**	**TELEPHONE NO.**	**PROJECT COORDINATOR**	**PRICE CODE** 8N	**DATA TURNAROUND**
	TRENT, SJ	373-5869	WIDRIG, DL	**AIR QUALITY** ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-047	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
		214.5' To 215'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ34

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 028688	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026336	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1VJC3	SOIL	8-14-08	1257

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
S. Mueller	8/14/8-1530	A5 FRIDGE	8/14/8-1530
A5 FRIDGE	AUG 19 2008 0800	Kevin Patterson Fluor Hanford	AUG 19 2008 0800
Kevin Patterson Fluor Hanford	AUG 19 2008 1305	Kevin Miller Kevin Miller	8/19/08 1305

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

SDG ESL080026

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-076	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-047	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-078	PAGE 1 OF 2
COLLECTOR	**COMPANY CONTACT**	**TELEPHONE NO.**	**PROJECT COORDINATOR**	**PRICE CODE** 8N	**DATA TURNAROUND**
	TRENT, SJ	373-5869	WIDRIG, DL	**AIR QUALITY** ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-048	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585 2	219.5' To 220	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ35

PRESERVATION	None	Cool~4C/Cool~4C	None										
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont										
NO. OF CONTAINER(S)	1	1	1										
VOLUME	1L	60mL	200g										
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026336	Moisture Content - D2216;										

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1VJC4	SOIL	8-14-08	1355	~	~	~							

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Hunsaker	8/14/8-1530	A5 FRIDGE	8/14/8-1530
A-5 FRIDGE	AUG 19 2008 0800	Kevin Patterson Fluor Hanford	AUG 19 2008 0800
Kevin Patterson Fluor Hanford	AUG 19 2008 1305	Kevin Miller	8/19/08 1305

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
SDG ESL080026

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-078	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-048	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-080	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Mouton	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-049	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585 2	225.3' To 225.8'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ36

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 073152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026004	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1VJC5	SOIL	8-14-08	1505

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D. Mouton	8/14/8-1530	A-5 SITE FRIDGE	8/14/8-1530
A-5 SITE FRIDGE	AUG 19 2008 0800	Kevin Patterson Fluor Hanford	AUG 19 2008 0800
Kevin Patterson Fluor Hanford	AUG 19 2008 1305	Kevin Miller	8/19/08 1305

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
SDG ESLO80026

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-080	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-049	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-082	PAGE 1 OF 2
COLLECTOR J McKibben D Wilson	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-050	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** 585-2	**ACTUAL SAMPLE DEPTH** 229.5 - 230.0	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ37

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026004	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJC6	SOIL	8-18-08	0832	✓	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J McKibben D Wilson	8-18-08 - 1010	A5 FRIDGE	8/18/08 - 1010
A-5 FRIDGE	8/21/08 8:00	Brotherton Butt	8/20/08 8:00
Brotherton Butt	8/21/08 935	Kevin Miller Kevin Miller	8/21/08 935

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

SDG ESL080026

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-082	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-050	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-084	PAGE 1 OF 2
COLLECTOR JM McKlor	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-051	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** 585-2	**ACTUAL SAMPLE DEPTH** 234.5-235.0	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ38

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS DT3152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 020004	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJC7	SOIL	8-18-08	0858	✓	✓	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
JM McKlor	8/19/08 - 1010	A5 Freidge	8/19/08 1000
A5 Freidge	8/20/08 0800	Brad Aseltine	8/20/08 0800
Brad Aseltine	8/21/08 935	Kevin Miller	8/21/08 935

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ESLO800026 (SDG)

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-084	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-051	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Battelle
The Business of Innovation

Pacific Northwest National Laboratory
902 Battelle Boulevard
P.O. Box 999
Richland, Washington 99352

FACSIMILE TRANSMITTAL

DATE: August 8, 2008

To: Dana Widrig
Company:
City/State:
Facsimile #: 866-252-5816
Telephone #:
E-Mail Address:

From: Michelle Valenta
Title:
Facsimile #: (509) 376-4890
Telephone #: (509) 372-2485
E-Mail Address: Michelle.Valenta@pnl.gov

Transmittal Consists of [12] Page(s) including cover page.

COMMENTS:

SDG # ESL080026.

SAMPLE INSPECTION FORM

SAMPLE RECEIPT

CLIENT: Fluor

RECEIVING DOCUMENT INFORMATION VERIFICATION:
Agreement
Non-Agreement (Explain)

SAMPLE CONTAINER CONDITION (check one):	Intact/Satisfactory;	Other (Explain)
Explanation:		

CONTAINER TEMPERATURE (provide or check N/A):	°C;	N/A
Comments:		

SAMPLE CUSTODY SEALS (check one):	Required: Yes; If required: Present	No; Absent
If absent, list discrepancies by sample number/container identification:		

CONDITION OF SAMPLE SEALS (check one):	N/A;	Intact;	Breached
Describe discrepancies by sample number/container identification:			

RESOLUTION OF SAMPLE DISCREPANCIES/DEFICIENCIES/ADDITIONAL COMMENTS: SDG # ESL080026

SAMPLE STORAGE LOCATION: 312

CLIENT SAMPLE NO. (1st # in series) BIVJ93 - BIVJ97

WORK PACKAGE NO: PROJECT NO:

VERIFIER: Kevin Miller (Signature) DATE: 8/7/08 TIME: 1:31 am pm

This is the preferred method for documenting information. Alternate methods may be used provided the content and method of processing is consistent with this QA Plan.

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-054	PAGE 1 OF 2

COLLECTOR Mokler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N; **AIR QUALITY** ☐; **DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-035	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 160.0-160.5	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ22

PRESERVATION	~~None~~ Cool 4C (DB 6-11-08)	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	033152 SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 028846	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJB2	SOIL	8-12-08	0935	✓	✓	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mokler [signature]	8-12-08 - 1530	A-5 Site Fridge	8/12/8-1530
Brow Hezlow [signature]	8/27 1300	Kevin Miller [signature]	8/27/08 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-054	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-035	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-056	PAGE 1 OF 2

COLLECTOR Mokler	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N AIR QUALITY ☐ DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C6552, I-036	PROJECT DESIGNATION 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		SAF NO. F08-128	
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-585 2	ACTUAL SAMPLE DEPTH 164.5'-165.0'	COA 123124ES10	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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ23

PRESERVATION				~~None~~ cool 4C 08-11-08	Cool~4C/Cool~4C	None								
TYPE OF CONTAINER				G/P	aG	Moisture Resistant Cont								
NO. OF CONTAINER(S)				1	1	1								
VOLUME				1L	60mL	200g								
SAMPLE ANALYSIS				SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 028846	Moisture Content - D2216;								
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME											
B1VJB3	SOIL	8-12-08	1015	✓	✓	✓								

CHAIN OF POSSESSION — SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mokler [signature]	8-12-08 - 1530	A-5 Site Fridge	8/12/8-1530
Brotherton [signature]	8/27/08 1300	Kevin Miller [signature]	8/27/08 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-056	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-036	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-058	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-037	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-060	PAGE 1 OF 2
COLLECTOR	**COMPANY CONTACT**	**TELEPHONE NO.**	**PROJECT COORDINATOR**	**PRICE CODE** 8N	**DATA TURNAROUND**
McKler	TRENT, SJ	373-5869	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	45 Days / 45 Days
C6552, I-038	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585 2	174.5' - 175.0'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ25

PRESERVATION	~~None~~ Cool 4C	Cool~4C/Cool~ 4C	None										
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont										
NO. OF CONTAINER(S)	1	1	1										
VOLUME	1L	60mL	200g										
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 028683	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026004	Moisture Content - D2216;										
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**										
B1VJB5	SOIL	8-12-08	1320	./	./	✓							

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. McKler 8-12-08	8/12/8	A5 Site Fridge	8/12/8-1530
Brotherton	8/12/08 1300	Kevin Miller	8/12/08 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-060	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-038	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F08-128-062	PAGE 1 OF 2
COLLECTOR McKler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N **AIR QUALITY** ☐	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-040	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 179.5' – 180.0'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ27

PRESERVATION	~~None~~ Cool 4C	Cool~4C/Cool~4C	None										
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont										
NO. OF CONTAINER(S)	1	1	1										
VOLUME	1L	60mL	200g										
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026004	Moisture Content - D2216;										

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1VJB6	SOIL	8-12-08	1450	✓	✓	✓							

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. McKler	8-12-08-1530	A-5 Site Fridge	8/12/8-1530
Brad Heston	8/27/08 1300	Kevin Miller	8/27/08 1300

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-062	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-040	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F08-128-064	PAGE 1 OF 2
COLLECTOR McKler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N / **AIR QUALITY** ☐ / **DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-041	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 184.5'- 185.0'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 018757	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026004	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1VJB7	SOIL	8-12-08	1500

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. McKler	8-12-08 - 1530	A-5 Site Fridge	8/12/8- 1530
Brothers	8/27/08 1300	Kevin Miller	8/27/08 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-064	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-041	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-092	PAGE 1 OF 2
COLLECTOR J Mellor	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-055	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** 585-2	**ACTUAL SAMPLE DEPTH** 254.8 - 255.3	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ42

PRESERVATION	None	Cool~4C/Cool~4C	None										
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont										
NO. OF CONTAINER(S)	1	1	1										
VOLUME	1L	60mL	200g										
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 073152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026001	Moisture Content - D2216;										
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**										
B1VJD1	SOIL	8-20-08	0825	✓	✓	✓							

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Mellor	8-20-08 - 1518	Site Rotation 5	8-20-08 - 1518
Brother Bob	8/27/08 1300	Kevin Miller	8/27/08 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-092	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-055	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-094	PAGE 1 OF 2

COLLECTOR J Mokler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N **DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-056	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐
ICE CHEST NO.	**FIELD LOGBOOK NO.** 585-2	**ACTUAL SAMPLE DEPTH** 258.5-259'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ43

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 053152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 626004	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJD2	SOIL	8 20 08	0930	✓	✓	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Mokler	8-20-08 1518	Sate Rel area 5	8-20-08 1518
Brother ...	8/27/08 1300	Kevin Miller Kevin Miller	8/27/08 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-094	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-056	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-096	PAGE 1 OF 2

COLLECTOR Mokler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N; **AIR QUALITY** ☐; **DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-058	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 264.5'-265.0'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ45

PRESERVATION				None	Cool~4C/Cool~4C	None								
TYPE OF CONTAINER				G/P	aG	Moisture Resistant Cont								
NO. OF CONTAINER(S)				1	1	1								
VOLUME				1L	60mL	200g								
SAMPLE ANALYSIS				SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026004	Moisture Content - D2216;								
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**											
B1VJD3	SOIL	8-20-08	1503	—	—	—								

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM J. Mokler [signature]	8-20-08 1518	RECEIVED BY/STORED IN A-5 Site Fridge	8/20/08 1518
RELINQUISHED BY/REMOVED FROM [signature]	8/27/08 1300	RECEIVED BY/STORED IN Kevin Miller [signature]	8/27/08 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

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-096	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-058	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-098	PAGE 1 OF 2

COLLECTOR Mulaly	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C6552, I-059	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585-2	**ACTUAL SAMPLE DEPTH** 269.5 - 270'	**COA** 123124ES10
SHIPPED TO Environmental Sciences Laboratory	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N **DATA TURNAROUND** 45 Days / 45 Days

AIR QUALITY ☐

METHOD OF SHIPMENT GOVERNMENT VEHICLE

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ46

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJD4	SOIL	8/21/8	0835	✓	✓	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Moul [signature]	8/21/8 1430	A5 Site Fridge	8/21/8 1430
Brothers [signature]	8/27/08 1300	Kevin Miller [signature]	8/27/08 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-098	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-059	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-100	PAGE 1 OF 2

COLLECTOR Alvalen	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N; **DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-060	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 274.5'- 275.0'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ47

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1VJD5	SOIL	8/21/8	1054

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Noalen [signature]	8/21/8-1430	A-5 Site Fridge	8/21/8-1430
Bri Thornton [signature]	8/22/08 1300	Kevin Miller [signature]	8/22/08 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-100	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-060	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-086	PAGE 1 OF 2
COLLECTOR: J McKlar	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days
SAMPLING LOCATION: C6552, I-052	PROJECT DESIGNATION: 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		SAF NO.: F08-128	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: 585-2	ACTUAL SAMPLE DEPTH: 239.5-240.0	COA: 123124ES10	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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ39

PRESERVATION	None	Cool~4C/Cool~4C	None	
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont	
NO. OF CONTAINER(S)	1	1	1	
VOLUME	1L	60mL	200g	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 0551S2	SEE ITEM (2) IN SPECIAL INSTRUCTIONS S26009	Moisture Content - D2216;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME											
B1VJC8	SOIL	8/19/08	0820	L	✓	✓								

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: J McKlar	DATE/TIME: 8-19-08 1500	RECEIVED BY/STORED IN: A-5 SITE FRIDGE	DATE/TIME: 8/19/08 1500
RELINQUISHED BY/REMOVED FROM: A-5 SITE FRIDGE	DATE/TIME: SEP 03 2008 0800	RECEIVED BY/STORED IN: Kevin Patterson Fluor Hanford	DATE/TIME: SEP 03 2008 0800
RELINQUISHED BY/REMOVED FROM: Fluor Hanford	DATE/TIME: SEP 03 2008 1300 1320	RECEIVED BY/STORED IN: Kevin Miller Kevin Miller	DATE/TIME: 9/3/08 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

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-086	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-052	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F08-128-088	PAGE 1 OF 2
COLLECTOR: J McKee	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N; DATA TURNAROUND: 45 Days / 45 Days
SAMPLING LOCATION: C6552, I-053	PROJECT DESIGNATION: 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		SAF NO.: F08-128	AIR QUALITY: ☐
ICE CHEST NO.	FIELD LOGBOOK NO.: 585-2	ACTUAL SAMPLE DEPTH: 249.5 245.0	COA: 123124ES10	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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L 053152	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026004	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1VJC9	SOIL	9.19.08	1033	✓	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J McKee	9/19/8 - 1500	A5 SITE REFRIG	9/19/8 - 1500
A5 SITE Fridge	SEP 03 2008 0830	Kevin Patterson Fluor Hanford	SEP 03 2008 0830
Kevin Patterson Fluor Hanford	SEP 03 2008 1300	Kevin Miller	9/3/08 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-088	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-053	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-090	PAGE 1 OF 2
COLLECTOR Makler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-054	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** 585-2	**ACTUAL SAMPLE DEPTH** 249.5-250	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ41

PRESERVATION	None	Cool~4C/Cool~4C	None	
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont	
NO. OF CONTAINER(S)	1	1	1	
VOLUME	1L	60mL	200g	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 05152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026004	Moisture Content - D2216;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME									
B1VJD0	SOIL	8-19-08	1407	✓	✓	✓						

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Makler	8-19-08-1500	A-5 Site Fridge	8/19/08-1500
A5 SITE FRIDGE	SEP 03 2008 0830	Kevin Patterson Fluor Hanford	SEP 03 2008 0830
Kevin Patterson Fluor Hanford	SEP 03 2008 1300	Kevin Miller	9/3/08 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-090	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N **AIR QUALITY** ☐	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-054	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-102	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Mo Kler	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-061	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585 2	279.5' To 280'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ48

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026004	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1VJD6	SOIL	8-21-08	1340

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. McKler	8/21/08-1430	A-5 Site Fridge	8/21/08-1435
A-5 Site Fridge	AUG 28 2008 0830	Kevin Patterson Fluor Hanford	AUG 28 2008 0830
Kevin Patterson Fluor Hanford	AUG 28 2008 1020	M6413 VWR	AUG 28 2008 1030
M6413 VWR	SEP 03 2008 0830	Kevin Patterson Fluor Hanford	SEP 03 2008 0830
Kevin Patterson Fluor Hanford	SEP 03 2008 1300	Kevin Miller Kevin Miller	9/3/08 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-102	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N **AIR QUALITY** ☐	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-061	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-104	PAGE 1 OF 2
COLLECTOR Mowrer	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-063	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585	**ACTUAL SAMPLE DEPTH** 285.3-285.8	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ50

PRESERVATION	None	Cool~4C/Cool~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1VJD7	SOIL	8/25/8	0940

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mowrer	8/25/8 1515	A5 SITE REF	8/25/8 1515
A5 SITE REF	AUG 28 2008 0730	Kevin Patterson Fluor Hanford	AUG 28 2008 0730
Kevin Patterson Fluor Hanford	AUG 28 2008 1030	N0413 VWR	AUG 28 2008 1030
N0413 VWR	SEP 03 2008 0830	Kevin Patterson Fluor Hanford	SEP 03 2008 0830
[illegible]	SEP 03 2008 1300	Kevin Miller	9/3/08 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-104	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N **AIR QUALITY** ☐	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-063	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-106	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
MoKler	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-065	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585 2	289.5' - 290.0'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VJ52

PRESERVATION	None	Cool~4C/Cool~4C	None	
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont	
NO. OF CONTAINER(S)	1	1	1	
VOLUME	1L	60mL	200g	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026895	Moisture Content - D2216;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1VJD8	SOIL	8-25-08	1455	✓	✓	✓							

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. MoKler	8-25-08 1515	A-5 Site Fridge	8/25/08 1515
A-5 SITE Fridge	AUG 28 2008 0730	Kevin Patterson Fluor Hanford	AUG 28 2008 0730
Kevin Patterson Fluor Hanford	AUG 28 2008 1030	M0413 VWK	AUG 28 2008 1030
M0413 VWK	SEP 03 2008 0830	Kevin Patterson Fluor Hanford	SEP 03 2008 0830
Kevin Patterson	SEP 03 2008 1300	Kevin Miller Kevin Miller	9/3/08 1300

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-106	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-065	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

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(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-108	PAGE 1 OF 2
COLLECTOR	**COMPANY CONTACT**	**TELEPHONE NO.**	**PROJECT COORDINATOR**	**PRICE CODE** 8N	**DATA TURNAROUND**
Mokler	TRENT, SJ	373-5869	WIDRIG, DL	**AIR QUALITY** ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-066	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-5852	294.5' - 295.0'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1X2B7

PRESERVATION	None	Cool~4C/Cool ~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;
	033152	026004	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1X2C4	SOIL	8-26-08	0840	✓	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mokler	8-26-08 1510	A-5 Site Fridge	8/28/8-1510
A-5 site Fridge	9/3/08 0845	J. Herrick	9/3/08 0845
J. Herrick	9/3/08 1300	Kevin Miller	9/3/08 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-108	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-066	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-110	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
McKler	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-067	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-5852	295.5'-300.0'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1X2B8

PRESERVATION	None	Cool~4C/Cool ~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026895	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1X2C5	SOIL	8-26-08	0915

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. McKler	8-26-08-1510	A-5 Site Fridge	8/26/4-1510
A-5 site Fridge	SEP 03 2008 0845	Josh Herrick Fluor Hanford	SEP 03 2008 0845
Josh Herrick	SEP 03 2008 1300	Kevin Miller	SEP 03 2008 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-110	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-067	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-112	PAGE 1 OF 2
COLLECTOR McKler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-068	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 304.5' - 305.0'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

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

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1X2B9

PRESERVATION	None	Cool~4C/Cool ~4C	None										
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont										
NO. OF CONTAINER(S)	1	1	1										
VOLUME	1L	60mL	200g										
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026895	Moisture Content - D2216;										
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**										
B1X2C6	SOIL	8-26-08	1020 ~~1015~~ RC	✓	✓	✓							

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. McKler	8-26-08 1510	A-5 Site Fridge	8/26/08 1510
A-5 site Fridge	SEP 03 2008 0845	Josh Herrick	SEP 03 2008 0845
Josh Herrick	SEP 03 2008 1300	Kevin Miller	SEP 03 2008 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-112	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N **AIR QUALITY** ☐	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-068	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-114	PAGE 1 OF 2
COLLECTOR	**COMPANY CONTACT**	**TELEPHONE NO.**	**PROJECT COORDINATOR**	**PRICE CODE** 8N	**DATA TURNAROUND**
McKler	TRENT, SJ	373-5869	WIDRIG, DL	**AIR QUALITY** ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-069	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-5852	310.0'-310.5'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1X2C0

PRESERVATION	None	Cool~4C/Cool ~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS 033152	SEE ITEM (2) IN SPECIAL INSTRUCTIONS 026895	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1X2C7	SOIL	8-26-08	1410	✓	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. McKler	8-26-08 1510	A-5 Site Fridge	8/26/8 1510
A-5 site Fridge	SEP 03 2008 0845	Josh Herrick	SEP 03 2008 0845
Josh Herrick	SEP 03 2008 1300	Kevin Miller	SEP 03 2008 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-114	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-069	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-116	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Fulton	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-070	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-5852	314.5' - 315.0'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1X2C1

PRESERVATION	None	Cool~4C/Cool ~4C	None										
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont										
NO. OF CONTAINER(S)	1	1	1										
VOLUME	1L	60mL	200g										
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;										
	033152												
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**										
B1X2C8	SOIL	8-27-08	0845	✓	✓	✓							

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
C. Fulton	8-27-08 1000	A-5 Site Fridge	8-27-08 1000
A-5 Site Fridge	SEP 03 2008 0845	Josh Herrick	SEP 03 2008 0845
Josh Herrick	SEP 03 2008 1300	Kevin Miller	SEP 03 2008 1300
Fluor Hanford			

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-116	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-070	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

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(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-128-118	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Fulton	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6552, I-071	216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		F08-128		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-5852	319.5-320'	123124ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Environmental Sciences Laboratory	N/A		N/A		

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

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

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1X2C2

PRESERVATION	None	Cool~4C/Cool ~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L 033152	60mL 026895	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1X2C9	SOIL	8/27/08	0935

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
C. Fulton	8-27-08 1000	A-5 Site Fridge	8-27-08 1000
A-5 Site Fridge	SEP 03 2008 0845	Josh Herrin	SEP 03 2008 0845
Josh Herrin	SEP 03 2008 1300	Kevin Miller	SEP 03 2008 1300

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-118	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-071	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-120	PAGE 1 OF 2
COLLECTOR Fulton	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C6552, I-072	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 324-5-325'	**COA** 123124ES10	**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=Vegitation
W=Water
WI=Wipe
X=Other

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

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1X2C3

PRESERVATION	None	Cool~4C/Cool ~4C	None
TYPE OF CONTAINER	G/P	aG	Moisture Resistant Cont
NO. OF CONTAINER(S)	1	1	1
VOLUME	1L	60mL	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Moisture Content - D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1X2D0	SOIL	8-27-08	1418	✓	✓	✓
				03152 046895		N/A

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
C. Fulton	8-27-08 1515	MO A2 Fridge ST	8-27-08 1515
MO A2 Fridge ST	SEP 03 2008 0845	Josh Herrick	SEP 03 2008 0845
Josh Herrick	SEP 03 2008 1300	Kevin Miller	SEP 03 2008 1300

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-128-120	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C6552, I-072	**PROJECT DESIGNATION** 216-A-5 Crib Characterization Sampling and Analysis - Geochemical Modelin		**SAF NO.** F08-128	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123124ES10	**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.

** The laboratory WILL notify the FH Technical Representative of any positive results on the water extraction of samples.
(1)6020M_ICPMS_ASTM_AE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_ICPMS_ASTM_AE (Add-On) {Arsenic, Lead, Selenium} 6020M_METALS_ICPMS_WE (TAL) {Antimony, Barium, Cadmium, Chromium, Silver} 6020M_METALS_ICPMS_WE (Add-On) {Arsenic, Lead, Selenium} 6020M_HG_ICPMS_AE {Mercury} 6010M_ICP_ASTM_AE (TAL) {Copper, Nickel} 6010M_ICP_ASTM_AE (Add-On) {Beryllium} 6010M_METALS_ICP_WE (TAL) {Copper, Nickel} 6010M_METALS_ICP_WE (Add-On) {Beryllium} RADISO_ICPMS_ASTM_AE {Technetium-99, Uranium-238} RADISO_ICPMS_WE {Iodine-129, Technetium-99, Uranium-238} I-129 by ICPMS {Iodine-129} GAMMA_GS {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} GAMMA_GS (Add-On) {Americium-241, Niobium-94} IC Anions - 9056_WE {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}
(2)TOC - ASTME1915A {Total organic carbon} Conductivity - 9050_WE {Specific Conductance}

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