SAF-RC-210
100-IU-2 & 100-IU-6 Miscellaneous Restoration Sites Near 100F - Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 6/5/12
INITIAL/DATE

COMMENTS:

SDG JP0392 SAF-RC-210

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: 600-299:1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-29040-1

SDG Number: JP0392

Job Description: SAF# RC-210

For:
Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

Attention: Joan H Kessner

Approved for release.
Kae E Yoder
Project Manager II
6/4/2012 2:22 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
06/04/2012

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Table of Contents

Cover Title Page 1
Report Narrative 3
Data Qualifiers 4
Method Summary 5
Method / Analyst Summary 6
Sample Summary 7
Sample Results 8
Sample Datasheets 9
QC Results 11
Qc Association Summary 12
Qc Reports 14
Client Chain of Custody 22
Sample Receipt Checklist 23

CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-29040-1

SDG #: JP0392
SAF#: RC-210

Date SDG Closed: May 18, 2012
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1P8D0	280-29040-1	6010B/7471/1311-6010-7470/9045	6010B/7471A/1311/9045C

I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed in this Case Narrative. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the signature on the Report Cover.

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

This report includes reporting limits (RLs) less than TestAmerica Denver's practical quantitation limits. These reporting limits are being used specifically at the client's request to meet the needs of this project. Please note that data are not normally reported to these levels without qualification, since they are inherently less reliable and potentially less defensible than required by the current NELAC standards.

The results, RLs and MDLs included in this report have been adjusted for dry weight, as appropriate.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The sample was received on 5/18/2012 9:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3º C.

Sample J1P8D0, requesting TCLP Metals 1311/6010B/7470A analysis, was leached and placed on hold, as instructed on the chain-of-custody. On 6/4/2012, the client instructed the laboratory to cancel the requested TCLP Metals 1311/6010B/7470A analysis.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-120595 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

It can be noted that the sample amount was greater than four times the spike amount for Aluminum, Iron and Manganese in the Matrix Spike performed on sample J1P8D0; therefore, control limits are not applicable.

No other anomalies were encountered.

GENERAL CHEMISTRY - SW846 9045C - PH
No anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

Lab Section	Qualifier	Description
Metals		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
pH	TAL DEN	SW846 9045C	
Deionized Water Leaching Procedure	TAL DEN		ASTM DI Leach
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

Method	Analyst	Analyst ID
SW846 6010B	Harre, John K	JKH
SW846 7471A	Rawlings, Brendon L	BLR
SW846 9045C	Woolley, Mark	MW
ASTM D-2216	Blythe, Scott	SB

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-29040-1	J1P8D0	Solid	05/17/2012 0817	05/18/2012 0900

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

Client Sample ID: **J1P8D0**

Lab Sample ID: 280-29040-1
Client Matrix: Solid
% Moisture: 2.1

Date Sampled: 05/17/2012 0817
Date Received: 05/18/2012 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-120764	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-120595	Lab File ID:	25A6052112.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	05/21/2012 2237			Final Weight/Volume:	100 mL
Prep Date:	05/21/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6260	X	1.4	4.5
Antimony		0.37	B	0.34	0.54
Arsenic		2.6		0.60	0.90
Barium		52.7	X	0.069	0.45
Beryllium		0.18		0.030	0.18
Boron		0.89	U	0.89	1.8
Cadmium		0.082	B	0.037	0.18
Calcium		5980	X	12.7	45.2
Chromium		9.7	X	0.052	0.18
Cobalt		5.8	X	0.090	0.90
Copper		33.2		0.20	0.90
Iron		15800		3.4	4.5
Lead		9.0		0.24	0.45
Magnesium		4140	X	3.3	18.1
Manganese		271	X	0.090	0.90
Molybdenum		0.24	U	0.24	1.8
Nickel		10.1	X	0.11	3.6
Potassium		947		37.1	271
Selenium		0.78	U	0.78	0.90
Silicon		221		5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		204		53.3	108
Vanadium		41.5	X	0.085	1.8
Zinc		36.8	X	0.36	0.90

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-121070	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-120464	Lab File ID:	120522aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.52 g
Analysis Date:	05/22/2012 1543			Final Weight/Volume:	50 mL
Prep Date:	05/22/2012 1210				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0065	U	0.0065	0.020

General Chemistry

Client Sample ID: **J1P8D0**

Lab Sample ID: 280-29040-1
Client Matrix: Solid

Date Sampled: 05/17/2012 0817
Date Received: 05/18/2012 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.18		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-120499	Analysis Date: 05/18/2012 1951						DryWt Corrected: N
Percent Moisture	2.1		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-120710	Analysis Date: 05/21/2012 1506						DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-120464					
LCS 280-120464/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-120464/1-A	Method Blank	T	Solid	7471A	
280-29040-1	J1P8D0	T	Solid	7471A	
280-29040-1DU	Duplicate	T	Solid	7471A	
280-29040-1MS	Matrix Spike	T	Solid	7471A	
Prep Batch: 280-120595					
LCS 280-120595/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-120595/1-A	Method Blank	T	Solid	3050B	
280-29040-1	J1P8D0	T	Solid	3050B	
280-29040-1DU	Duplicate	T	Solid	3050B	
280-29040-1MS	Matrix Spike	T	Solid	3050B	
Analysis Batch:280-120764					
LCS 280-120595/2-A	Lab Control Sample	T	Solid	6010B	280-120595
MB 280-120595/1-A	Method Blank	T	Solid	6010B	280-120595
280-29040-1	J1P8D0	T	Solid	6010B	280-120595
280-29040-1DU	Duplicate	T	Solid	6010B	280-120595
280-29040-1MS	Matrix Spike	T	Solid	6010B	280-120595
Analysis Batch:280-121070					
LCS 280-120464/2-A	Lab Control Sample	T	Solid	7471A	280-120464
MB 280-120464/1-A	Method Blank	T	Solid	7471A	280-120464
280-29040-1	J1P8D0	T	Solid	7471A	280-120464
280-29040-1DU	Duplicate	T	Solid	7471A	280-120464
280-29040-1MS	Matrix Spike	T	Solid	7471A	280-120464

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-120488					
280-29040-1	J1P8D0	S	Solid	DI Leach	
280-29040-1DU	Duplicate	S	Solid	DI Leach	
Analysis Batch:280-120499					
LCS 280-120499/4	Lab Control Sample	T	Water	9045C	
LCSD 280-120499/5	Lab Control Sample Duplicate	T	Water	9045C	
280-29040-1	J1P8D0	S	Solid	9045C	
280-29040-1DU	Duplicate	S	Solid	9045C	
Analysis Batch:280-120710					
280-29040-1	J1P8D0	T	Solid	D-2216	
280-29040-1DU	Duplicate	T	Solid	D-2216	

Report Basis
S = Soluble
T = Total

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

Method Blank - Batch: 280-120595

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-120595/1-A	Analysis Batch:	280-120764	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-120595	Lab File ID:	25A6052112.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	05/21/2012 2233	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/21/2012 1400				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Arsenic	0.66	U	0.66	1.0
Barium	0.076	U	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.8	U	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

Lab Control Sample - Batch: 280-120595

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-120595/2-A	Analysis Batch:	280-120764	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-120595	Lab File ID:	25A6052112.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	05/21/2012 2235	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/21/2012 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	198.6	99	82 - 116	
Antimony	50.0	47.08	94	82 - 110	
Arsenic	100	92.77	93	85 - 110	
Barium	200	190.6	95	87 - 112	
Beryllium	5.00	4.62	92	84 - 114	
Boron	100	93.58	94	81 - 110	
Cadmium	10.0	9.94	99	87 - 110	
Calcium	5000	4551	91	82 - 114	
Chromium	20.0	19.49	97	84 - 114	
Cobalt	50.0	47.44	95	87 - 110	
Copper	25.0	25.91	104	88 - 110	
Iron	100	99.32	99	87 - 120	
Lead	50.0	48.37	97	86 - 110	
Magnesium	5000	4687	94	90 - 110	
Manganese	50.0	48.91	98	88 - 110	
Molybdenum	100	97.58	98	86 - 110	
Nickel	50.0	47.59	95	87 - 110	
Potassium	5000	4736	95	89 - 110	
Selenium	200	196.8	98	83 - 110	
Silicon	1000	122.0	12	10 - 70	
Silver	5.00	5.01	100	87 - 114	
Sodium	5000	4879	98	90 - 112	
Vanadium	50.0	49.18	98	88 - 110	
Zinc	50.0	46.51	93	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

Matrix Spike - Batch: 280-120595

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-29040-1	Analysis Batch:	280-120764	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-120595	Lab File ID:	25A6052112.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	05/21/2012 2245	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/21/2012 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	6260		189	7956	897	50 - 200	4
Antimony	0.37	B	47.3	22.99	48	20 - 200	
Arsenic	2.6		94.6	81.91	84	76 - 111	
Barium	52.7		189	230.1	94	52 - 159	
Beryllium	0.18		4.73	4.10	83	72 - 105	
Boron	0.89	U	94.6	77.81	82	75 - 107	
Cadmium	0.082	B	9.46	8.63	90	40 - 130	
Calcium	5980		4730	11100	108	43 - 165	
Chromium	9.7		18.9	28.40	99	70 - 200	
Cobalt	5.8		47.3	45.96	85	72 - 106	
Copper	33.2		23.6	55.15	93	37 - 187	
Iron	15800		94.6	17050	1319	70 - 200	4
Lead	9.0		47.3	49.76	86	70 - 200	
Magnesium	4140		4730	8815	99	64 - 145	
Manganese	271		47.3	325.3	114	40 - 200	4
Molybdenum	0.24	U	94.6	81.55	86	75 - 103	
Nickel	10.1		47.3	51.99	89	61 - 126	
Potassium	947		4730	5241	91	56 - 172	
Selenium	0.78	U	189	166.1	88	76 - 104	
Silicon	221		946	479.2	27	20 - 200	
Silver	0.14	U	4.73	4.43	94	75 - 141	
Sodium	204		4730	4615	93	78 - 111	
Vanadium	41.5		47.3	88.88	100	50 - 169	
Zinc	36.8		47.3	76.01	83	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

Duplicate - Batch: 280-120595

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-29040-1	Analysis Batch:	280-120764	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-120595	Lab File ID:	25A6052112.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	05/21/2012 2242	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/21/2012 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	6260		6236	0.3	40	
Antimony	0.37	B	0.38	NC	40	U
Arsenic	2.6		2.80	6	30	
Barium	52.7		51.78	2	30	
Beryllium	0.18		0.180	0.8	30	B
Boron	0.89	U	0.98	NC	30	U
Cadmium	0.082	B	0.0821	0.2	30	B
Calcium	5980		5947	0.6	30	
Chromium	9.7		9.87	2	40	
Cobalt	5.8		5.78	0.1	30	
Copper	33.2		34.02	2	30	
Iron	15800		15830	0.2	40	
Lead	9.0		7.94	12	40	
Magnesium	4140		4122	0.5	30	
Manganese	271		254.4	6	40	
Molybdenum	0.24	U	0.26	NC	30	U
Nickel	10.1		10.71	6	30	
Potassium	947		949.0	0.2	40	
Selenium	0.78	U	0.86	NC	30	U
Silicon	221		261.6	17	40	
Silver	0.14	U	0.16	NC	30	U
Sodium	204		199.4	2	30	
Vanadium	41.5		42.42	2	30	
Zinc	36.8		36.72	0.3	40	

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

Method Blank - Batch: 280-120464

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-120464/1-A	Analysis Batch:	280-121070	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-120464	Lab File ID:	120522aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	05/22/2012 1534	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/22/2012 1210				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-120464

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-120464/2-A	Analysis Batch:	280-121070	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-120464	Lab File ID:	120522aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	05/22/2012 1536	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/22/2012 1210				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.406	97	87 - 111	

Matrix Spike - Batch: 280-120464

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-29040-1	Analysis Batch:	280-121070	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-120464	Lab File ID:	120522aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.64 g
Analysis Date:	05/22/2012 1547	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/22/2012 1210				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0065	U	0.399	0.399	100	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

Duplicate - Batch: 280-120464

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-29040-1	Analysis Batch:	280-121070	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-120464	Lab File ID:	120522aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.56 g
Analysis Date:	05/22/2012 1545	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/22/2012 1210				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0065	U	0.0061	NC	20	U

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-120499

Method: 9045C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-120499/4	Analysis Batch:	280-120499	Instrument ID:	WC_Orion 3 Star
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	05/18/2012 1947	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-120499/5	Analysis Batch:	280-120499	Instrument ID:	WC_Orion 3 Star
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	05/18/2012 1949	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
pH adj. to 25 deg C-Soluble	100	100	97 - 103	0	5		

Duplicate - Batch: 280-120499

Method: 9045C
Preparation: N/A

Lab Sample ID:	280-29040-1	Analysis Batch:	280-120499	Instrument ID:	WC_Orion 3 Star
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	280-120488	Initial Weight/Volume:	1.0 mL
Analysis Date:	05/18/2012 1953	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	05/18/2012 1730				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH adj. to 25 deg C-Soluble	8.18	8.190	0.1	5	

Client: Washington Closure Hanford

Job Number: 280-29040-1
Sdg Number: JP0392

Duplicate - Batch: 280-120710

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-29040-1	Analysis Batch:	280-120710	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/21/2012 1506	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	2.1	2.3	8	20	