0096348

SAF-RC-182
ARRA 100-F Remaining Sites Remediation – Soil In-Process
FINAL DATA PACKAGE

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COMMENTS:

SDG J01061 SAF-RC-182

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: 100-F Legacy Diesel Spill

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-13912-1

SDG Number: J01061

Job Description: SAF# RC-182

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

Attention: Joan H Kessner

Approved for release.
Kae E Yoder
Project Manager II
4/11/2011 10:42 AM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
04/11/2011

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.

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ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

Cover Title Page 1

Report Narrative 3

Data Qualifiers 5

Method Summary 7

Method / Analyst Summary 8

Sample Summary 9

Sample Results 10

Sample Datasheets 11

QC Results 51

Qc Association Summary 52

Qc Reports 59

Client Chain of Custody 78

Sample Receipt Checklist 79

CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-13912-1

SDG #: J01061
SAF#: RC-182

Date SDG Closed: March 25, 2011
Data Deliverable: 15 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1FXF1	280-13912-1	6010/7471/WTPH-D+/WTPH-G/8260A/ 8310/8082	6010B/7471A/NWTPH-Dx/NWTPH-Gx/8260B/ 8310/8082
J1FXF2	280-13912-2	6010/7471/WTPH-D+/WTPH-G/8260A/ 8310/8082	6010B/7471A/NWTPH-Dx/NWTPH-Gx/8260B/ 8310/8082
J1FXF3	280-13912-3	6010/7471/WTPH-D+/WTPH-G/8260A/ 8310/8082	6010B/7471A/NWTPH-Dx/NWTPH-Gx/8260B/ 8310/8082
J1FXF4	280-13912-4	6010/7471/WTPH-D+/WTPH-G/8260A/ 8310/8082	6010B/7471A/NWTPH-Dx/NWTPH-Gx/8260B/ 8310/8082
J1FXF5	280-13912-5	6010/7471/WTPH-D+/WTPH-G/8260A/ 8310/8082	6010B/7471A/NWTPH-Dx/NWTPH-Gx/8260B/ 8310/8082

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 samples were received on 3/25/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 5.2 C.

GC/MS VOLATILES - SW846 8260B
Low levels of Methylene Chloride, a common laboratory contaminant, are present in the method blank associated with batch 280-59393. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

The MS aliquot of the MS/MSD performed on sample J1FXF5 exhibited a percent recovery outside the control limits for Ethylbenzene, and the associated sample result has been flagged "T". In addition, surrogates were recovered outside the control limits in the MS and MSD. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GC VOLATILES - NWTPH-Gx - GRO
Low levels of Gasoline are present in the method blank associated with batch 280-59993. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8082 - PCBs
The RPD between the primary and confirmation columns exceeded 25% for Aroclor 1254 in sample J1FXF3. The result has been flagged with a "P".

The laboratory noted that sample J1FXF3 contained more than one Aroclor component. Results should be considered estimated due to shared peaks.

No other anomalies were encountered.

GC SEMIVOLATILES - NWTPH-Dx - DRO
Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high constituent concentration, sample J1FXF5 had to be analyzed at a dilution, and the associated results have been flagged with a "D". The reporting limits have been adjusted relative to the dilution required.

The surrogate recovery was not calculated for sample J1FXF5, because the extract was diluted beyond the ability to reliably quantitate a recovery. The recovery has been flagged with a "D".

Spike compound recoveries, RPD data and surrogate recoveries have been "D" flagged in the MS/MSD performed on sample J1FXF5, as the recoveries obtained are calculated from diluted samples and are not considered reliable. The acceptable LCS analysis data indicated that the analytical system was operating within control.

No other anomalies were encountered.

HPLC - SW846 8310 - PAHs
The RPD between the primary and confirmation columns exceeded 40% for analytes in samples J1FXF3 and J1FXF5. The lower of the two values have been reported, as matrix interference is evident. Associated results have been flagged with an "X".

Surrogate Terphenyl-d14 was recovered outside the control limits, biased high, in sample J1FXF5. The laboratory noted that this anomaly is due to obvious matrix interference; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-59404 indicates that physical and chemical interferences are present for Cobalt and Zinc. Results have been flagged with an "X".

Low levels of Barium are present in the method blank associated with batch 280-59404. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

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 J1FXF1; therefore, control limits are not applicable.

Silicon was recovered outside the control limits in the SW846 6010B Matrix Spike performed on sample J1FXF1, and the associated sample result has been flagged "N". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

Mercury was recovered outside the control limits in the Matrix Spike performed on sample J1FXF5, and the associated sample result has been flagged "N". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	U	Analyzed for but not detected.
	J	Indicates an Estimated Value for TICs
	T	MS, MSD: Recovery exceeds upper or lower control limits.
	N	Presumptive evidence of material.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	Surrogate exceeds the control limit
GC VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Analyzed for but not detected.
	D	The reported value is from a dilution.
	P	This flag is used for an aroclor target analyte where there is greater than 25% difference for detected concentrations between the two GC columns

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

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.
	N	Recovery exceeds upper or lower control limits
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.
HPLC/IC		
	U	Analyzed for but not detected.
	X	More than 40% difference between columns, lower result reported.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	Surrogate exceeds the control limit

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Northwest - Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Gx	
Purge and Trap	TAL DEN		SW846 5030B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
Ultrasonic Extraction	TAL DEN		SW846 3550C
PAHs (HPLC)	TAL DEN	SW846 8310	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

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: 280-13912-1
Sdg Number: J01061

Method	Analyst	Analyst ID
SW846 8260B	Reinhardt, Jason	JR
NWTPH NWTPH-Gx	Moore, Tegan E	TEM
SW846 8082	Pavlakovich, Adam M	AMP
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Harre, John K	JKH
SW846 7471A	Stoltz, Katie	KS
ASTM D-2216	Berry III, Paul B	PBB
SW846 8310	Hall, Koley J	KJH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-13912-1	J1FXF1	Solid	03/23/2011 0845	03/25/2011 1000
280-13912-2	J1FXF2	Solid	03/23/2011 0850	03/25/2011 1000
280-13912-3	J1FXF3	Solid	03/23/2011 0900	03/25/2011 1000
280-13912-4	J1FXF4	Solid	03/23/2011 0915	03/25/2011 1000
280-13912-5	J1FXF5	Solid	03/23/2011 0920	03/25/2011 1000

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF1**

Lab Sample ID: 280-13912-1
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 03/23/2011 0845
Date Received: 03/25/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Prep Method:	5030B	Prep Batch:	280-59393	Lab File ID:	J5701.D
Dilution:	1.0			Initial Weight/Volume:	5.567 g
Analysis Date:	03/25/2011 1555			Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.1	U	5.1	19
Benzene		0.45	U	0.45	4.8
Bromodichloromethane		0.21	U	0.21	4.8
Bromoform		0.22	U	0.22	4.8
Bromomethane		0.48	U	0.48	9.6
2-Butanone (MEK)		1.8	U	1.8	9.6
Carbon disulfide		0.40	U	0.40	4.8
Carbon tetrachloride		0.60	U	0.60	4.8
Chlorobenzene		0.52	U	0.52	4.8
Dibromochloromethane		0.55	U	0.55	4.8
Chloroethane		0.85	U	0.85	9.6
Chloroform		0.28	U	0.28	4.8
Chloromethane		0.74	U	0.74	9.6
1,1-Dichloroethane		0.20	U	0.20	4.8
1,2-Dichloroethane		0.67	U	0.67	4.8
1,1-Dichloroethene		0.56	U	0.56	4.8
1,2-Dichloroethene, Total		0.37	U	0.37	4.8
1,2-Dichloropropane		0.53	U	0.53	4.8
cis-1,3-Dichloropropene		1.2	U	1.2	4.8
trans-1,3-Dichloropropene		0.64	U	0.64	4.8
Ethylbenzene		0.64	U	0.64	4.8
2-Hexanone		4.7	U	4.7	19
Methylene Chloride		1.8	J B	0.72	4.8
4-Methyl-2-pentanone (MIBK)		4.2	U	4.2	9.6
Styrene		0.60	U	0.60	4.8
1,1,2,2-Tetrachloroethane		0.58	U	0.58	4.8
Tetrachloroethene		0.56	U	0.56	4.8
Toluene		0.66	U	0.66	4.8
1,1,1-Trichloroethane		0.50	U	0.50	4.8
1,1,2-Trichloroethane		0.84	U	0.84	4.8
Trichloroethene		0.22	U	0.22	4.8
Vinyl chloride		1.3	U	1.3	4.8
Xylenes, Total		0.58	U	0.58	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87		58 - 140
Toluene-d8 (Surr)	81		80 - 126
4-Bromofluorobenzene (Surr)	103		76 - 127
Dibromofluoromethane (Surr)	95		75 - 121

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF1**

Lab Sample ID: 280-13912-1
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 03/23/2011 0845
Date Received: 03/25/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Prep Method:	5030B	Prep Batch:	280-59393	Lab File ID:	J5701.D
Dilution:	1.0			Initial Weight/Volume:	5.567 g
Analysis Date:	03/25/2011 1555			Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF2**

Lab Sample ID: 280-13912-2
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/23/2011 0850
Date Received: 03/25/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Prep Method:	5030B	Prep Batch:	280-59393	Lab File ID:	J5702.D
Dilution:	1.0			Initial Weight/Volume:	5.451 g
Analysis Date:	03/25/2011 1618			Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.2	U	5.2	19
Benzene		0.45	U	0.45	4.8
Bromodichloromethane		0.21	U	0.21	4.8
Bromoform		0.22	U	0.22	4.8
Bromomethane		0.48	U	0.48	9.7
2-Butanone (MEK)		1.8	U	1.8	9.7
Carbon disulfide		0.41	U	0.41	4.8
Carbon tetrachloride		0.61	U	0.61	4.8
Chlorobenzene		0.52	U	0.52	4.8
Dibromochloromethane		0.55	U	0.55	4.8
Chloroethane		0.86	U	0.86	9.7
Chloroform		0.28	U	0.28	4.8
Chloromethane		0.74	U	0.74	9.7
1,1-Dichloroethane		0.20	U	0.20	4.8
1,2-Dichloroethane		0.68	U	0.68	4.8
1,1-Dichloroethene		0.57	U	0.57	4.8
1,2-Dichloroethene, Total		0.38	U	0.38	4.8
1,2-Dichloropropane		0.53	U	0.53	4.8
cis-1,3-Dichloropropene		1.2	U	1.2	4.8
trans-1,3-Dichloropropene		0.65	U	0.65	4.8
Ethylbenzene		0.65	U	0.65	4.8
2-Hexanone		4.7	U	4.7	19
Methylene Chloride		2.2	J B	0.73	4.8
4-Methyl-2-pentanone (MIBK)		4.2	U	4.2	9.7
Styrene		0.61	U	0.61	4.8
1,1,2,2-Tetrachloroethane		0.59	U	0.59	4.8
Tetrachloroethene		0.57	U	0.57	4.8
Toluene		0.67	U	0.67	4.8
1,1,1-Trichloroethane		0.50	U	0.50	4.8
1,1,2-Trichloroethane		0.85	U	0.85	4.8
Trichloroethene		0.22	U	0.22	4.8
Vinyl chloride		1.3	U	1.3	4.8
Xylenes, Total		0.59	U	0.59	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		58 - 140
Toluene-d8 (Surr)	90		80 - 126
4-Bromofluorobenzene (Surr)	98		76 - 127
Dibromofluoromethane (Surr)	97		75 - 121

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF2**

Lab Sample ID: 280-13912-2
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/23/2011 0850
Date Received: 03/25/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Prep Method:	5030B	Prep Batch:	280-59393	Lab File ID:	J5702.D
Dilution:	1.0			Initial Weight/Volume:	5.451 g
Analysis Date:	03/25/2011 1618			Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF3**

Lab Sample ID: 280-13912-3
Client Matrix: Solid

% Moisture: 2.1

Date Sampled: 03/23/2011 0900
Date Received: 03/25/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Prep Method:	5030B	Prep Batch:	280-59393	Lab File ID:	J5703.D
Dilution:	1.0			Initial Weight/Volume:	5.161 g
Analysis Date:	03/25/2011 1641			Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.3	U	5.3	20
Benzene		0.47	U	0.47	4.9
Bromodichloromethane		0.22	U	0.22	4.9
Bromoform		0.23	U	0.23	4.9
Bromomethane		0.49	U	0.49	9.9
2-Butanone (MEK)		1.8	U	1.8	9.9
Carbon disulfide		0.42	U	0.42	4.9
Carbon tetrachloride		0.62	U	0.62	4.9
Chlorobenzene		0.53	U	0.53	4.9
Dibromochloromethane		0.56	U	0.56	4.9
Chloroethane		0.88	U	0.88	9.9
Chloroform		0.29	U	0.29	4.9
Chloromethane		0.76	U	0.76	9.9
1,1-Dichloroethane		0.21	U	0.21	4.9
1,2-Dichloroethane		0.69	U	0.69	4.9
1,1-Dichloroethene		0.58	U	0.58	4.9
1,2-Dichloroethene, Total		0.39	U	0.39	4.9
1,2-Dichloropropane		0.54	U	0.54	4.9
cis-1,3-Dichloropropene		1.3	U	1.3	4.9
trans-1,3-Dichloropropene		0.66	U	0.66	4.9
Ethylbenzene		0.66	U	0.66	4.9
2-Hexanone		4.8	U	4.8	20
Methylene Chloride		2.3	J B	0.74	4.9
4-Methyl-2-pentanone (MIBK)		4.3	U	4.3	9.9
Styrene		0.62	U	0.62	4.9
1,1,2,2-Tetrachloroethane		0.60	U	0.60	4.9
Tetrachloroethene		0.58	U	0.58	4.9
Toluene		0.68	U	0.68	4.9
1,1,1-Trichloroethane		0.51	U	0.51	4.9
1,1,2-Trichloroethane		0.87	U	0.87	4.9
Trichloroethene		0.23	U	0.23	4.9
Vinyl chloride		1.3	U	1.3	4.9
Xylenes, Total		0.60	U	0.60	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		58 - 140
Toluene-d8 (Surr)	99		80 - 126
4-Bromofluorobenzene (Surr)	102		76 - 127
Dibromofluoromethane (Surr)	98		75 - 121

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF3**

Lab Sample ID: 280-13912-3
Client Matrix: Solid
% Moisture: 2.1

Date Sampled: 03/23/2011 0900
Date Received: 03/25/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Prep Method:	5030B	Prep Batch:	280-59393	Lab File ID:	J5703.D
Dilution:	1.0			Initial Weight/Volume:	5.161 g
Analysis Date:	03/25/2011 1641			Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF4**

Lab Sample ID: 280-13912-4
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 03/23/2011 0915
Date Received: 03/25/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Prep Method:	5030B	Prep Batch:	280-59393	Lab File ID:	J5704.D
Dilution:	1.0			Initial Weight/Volume:	5.518 g
Analysis Date:	03/25/2011 1704			Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.1	U	5.1	19
Benzene		0.45	U	0.45	4.8
Bromodichloromethane		0.21	U	0.21	4.8
Bromoform		0.22	U	0.22	4.8
Bromomethane		0.48	U	0.48	9.5
2-Butanone (MEK)		1.7	U	1.7	9.5
Carbon disulfide		0.40	U	0.40	4.8
Carbon tetrachloride		0.60	U	0.60	4.8
Chlorobenzene		0.51	U	0.51	4.8
Dibromochloromethane		0.54	U	0.54	4.8
Chloroethane		0.85	U	0.85	9.5
Chloroform		0.28	U	0.28	4.8
Chloromethane		0.73	U	0.73	9.5
1,1-Dichloroethane		0.20	U	0.20	4.8
1,2-Dichloroethane		0.67	U	0.67	4.8
1,1-Dichloroethene		0.56	U	0.56	4.8
1,2-Dichloroethene, Total		0.37	U	0.37	4.8
1,2-Dichloropropane		0.52	U	0.52	4.8
cis-1,3-Dichloropropene		1.2	U	1.2	4.8
trans-1,3-Dichloropropene		0.64	U	0.64	4.8
Ethylbenzene		0.64	U	0.64	4.8
2-Hexanone		4.6	U	4.6	19
Methylene Chloride		1.8	J B	0.71	4.8
4-Methyl-2-pentanone (MIBK)		4.1	U	4.1	9.5
Styrene		0.60	U	0.60	4.8
1,1,2,2-Tetrachloroethane		0.58	U	0.58	4.8
Tetrachloroethene		0.56	U	0.56	4.8
Toluene		0.66	U	0.66	4.8
1,1,1-Trichloroethane		0.49	U	0.49	4.8
1,1,2-Trichloroethane		0.84	U	0.84	4.8
Trichloroethene		0.22	U	0.22	4.8
Vinyl chloride		1.3	U	1.3	4.8
Xylenes, Total		0.58	U	0.58	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	78		58 - 140
Toluene-d8 (Surr)	95		80 - 126
4-Bromofluorobenzene (Surr)	107		76 - 127
Dibromofluoromethane (Surr)	91		75 - 121

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF4**

Lab Sample ID: 280-13912-4
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 03/23/2011 0915
Date Received: 03/25/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Prep Method:	5030B	Prep Batch:	280-59393	Lab File ID:	J5704.D
Dilution:	1.0			Initial Weight/Volume:	5.518 g
Analysis Date:	03/25/2011 1704			Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF5**

Lab Sample ID: 280-13912-5
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 03/23/2011 0920
Date Received: 03/25/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Prep Method:	5030B	Prep Batch:	280-59393	Lab File ID:	J5698.D
Dilution:	1.0			Initial Weight/Volume:	5.404 g
Analysis Date:	03/25/2011 1446			Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				

Analyte DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	5.1	U	5.1	19
Benzene	0.45	U	0.45	4.8
Bromodichloromethane	0.21	U	0.21	4.8
Bromoform	0.22	U	0.22	4.8
Bromomethane	0.48	U	0.48	9.6
2-Butanone (MEK)	1.8	U	1.8	9.6
Carbon disulfide	0.40	U	0.40	4.8
Carbon tetrachloride	0.60	U	0.60	4.8
Chlorobenzene	0.52	U	0.52	4.8
Dibromochloromethane	0.55	U	0.55	4.8
Chloroethane	0.85	U	0.85	9.6
Chloroform	0.28	U	0.28	4.8
Chloromethane	0.74	U	0.74	9.6
1,1-Dichloroethane	0.20	U	0.20	4.8
1,2-Dichloroethane	0.67	U	0.67	4.8
1,1-Dichloroethene	0.56	U	0.56	4.8
1,2-Dichloroethene, Total	0.37	U	0.37	4.8
1,2-Dichloropropane	0.53	U	0.53	4.8
cis-1,3-Dichloropropene	1.2	U	1.2	4.8
trans-1,3-Dichloropropene	0.64	U	0.64	4.8
Ethylbenzene	0.64	U T	0.64	4.8
2-Hexanone	4.7	U	4.7	19
Methylene Chloride	2.5	J B	0.72	4.8
4-Methyl-2-pentanone (MIBK)	4.2	U	4.2	9.6
Styrene	0.60	U	0.60	4.8
1,1,2,2-Tetrachloroethane	0.58	U	0.58	4.8
Tetrachloroethene	0.56	U	0.56	4.8
Toluene	0.66	U	0.66	4.8
1,1,1-Trichloroethane	0.50	U	0.50	4.8
1,1,2-Trichloroethane	0.84	U	0.84	4.8
Trichloroethene	0.22	U	0.22	4.8
Vinyl chloride	1.3	U	1.3	4.8
Xylenes, Total	6.0		0.58	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		58 - 140
Toluene-d8 (Surr)	100		80 - 126
4-Bromofluorobenzene (Surr)	127		76 - 127
Dibromofluoromethane (Surr)	101		75 - 121

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF5**

Lab Sample ID: 280-13912-5
Client Matrix: Solid

% Moisture: 3.3

Date Sampled: 03/23/2011 0920
Date Received: 03/25/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Prep Method:	5030B	Prep Batch:	280-59393	Lab File ID:	J5698.D
Dilution:	1.0			Initial Weight/Volume:	5.404 g
Analysis Date:	03/25/2011 1446			Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				

Tentatively Identified Compounds **Number TIC's Found:** **10**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
124-18-5	Decane	12.03	210	N J
874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	14.70	420	N J
112-40-3	Dodecane	14.79	550	N J
	Unknown	14.88	1100	N J
119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	15.07	670	N J
	Unknown	15.17	200	N J
	Unknown	15.30	430	N J
17059-48-2	1H-Indene, 2,3-dihydro-1,6-dimethyl-	15.40	460	N J
3877-19-8	Naphthalene, 1,2,3,4-tetrahydro-2-methyl	15.71	220	N J
17059-48-2	1H-Indene, 2,3-dihydro-1,6-dimethyl-	15.82	220	N J

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF1**

Lab Sample ID: 280-13912-1
Client Matrix: Solid

% Moisture: 6.1

Date Sampled: 03/23/2011 0845
Date Received: 03/25/2011 1000

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-60911	Instrument ID:	GCV_K
Prep Method:	5030B	Prep Batch:	280-59993	Initial Weight/Volume:	10.45 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Analysis Date:	04/05/2011 1301			Injection Volume:	5 mL
Prep Date:	03/30/2011 1523			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		590	J B	330	1200

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	96		77 - 123

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF2**

Lab Sample ID: 280-13912-2
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/23/2011 0850
Date Received: 03/25/2011 1000

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-60911	Instrument ID:	GCV_K
Prep Method:	5030B	Prep Batch:	280-59993	Initial Weight/Volume:	10.19 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Analysis Date:	04/05/2011 1508			Injection Volume:	5 mL
Prep Date:	03/30/2011 1523			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		590	J B	340	1200

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	88		77 - 123

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF3**

Lab Sample ID: 280-13912-3
Client Matrix: Solid
% Moisture: 2.1

Date Sampled: 03/23/2011 0900
Date Received: 03/25/2011 1000

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-60911	Instrument ID:	GCV_K
Prep Method:	5030B	Prep Batch:	280-59993	Initial Weight/Volume:	10.21 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Analysis Date:	04/05/2011 1550			Injection Volume:	5 mL
Prep Date:	03/30/2011 1523			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		600	J B	330	1200

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	92		77 - 123

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF4**

Lab Sample ID: 280-13912-4
Client Matrix: Solid

% Moisture: 4.7

Date Sampled: 03/23/2011 0915
Date Received: 03/25/2011 1000

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-60911	Instrument ID:	GCV_K
Prep Method:	5030B	Prep Batch:	280-59993	Initial Weight/Volume:	10.27 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Analysis Date:	04/05/2011 1633			Injection Volume:	5 mL
Prep Date:	03/30/2011 1523			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		490	J B	330	1200

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	85		77 - 123

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF5**

Lab Sample ID: 280-13912-5
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 03/23/2011 0920
Date Received: 03/25/2011 1000

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-60911	Instrument ID:	GCV_K
Prep Method:	5030B	Prep Batch:	280-59993	Initial Weight/Volume:	10.26 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Analysis Date:	04/05/2011 1715			Injection Volume:	5 mL
Prep Date:	03/30/2011 1523			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		2400	B	330	1200

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	92		77 - 123

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF1**

Lab Sample ID: 280-13912-1
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 03/23/2011 0845
Date Received: 03/25/2011 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60129	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59450	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/30/2011 1456			Injection Volume:	1 uL
Prep Date:	03/25/2011 1950			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.2	U	8.2	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	87		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF2**

Lab Sample ID: 280-13912-2
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/23/2011 0850
Date Received: 03/25/2011 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60129	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59450	Initial Weight/Volume:	31.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/30/2011 1518			Injection Volume:	1 uL
Prep Date:	03/25/2011 1950			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.0	U	8.0	16
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.6	U	4.6	10
Aroclor 1248		4.6	U	4.6	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	71		59 - 130
Tetrachloro-m-xylene	99		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF3**

Lab Sample ID: 280-13912-3
Client Matrix: Solid
% Moisture: 2.1

Date Sampled: 03/23/2011 0900
Date Received: 03/25/2011 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60130	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59450	Initial Weight/Volume:	32.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/30/2011 1622			Injection Volume:	1 uL
Prep Date:	03/25/2011 1950			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.5
Aroclor 1221		7.6	U	7.6	16
Aroclor 1232		1.9	U	1.9	9.5
Aroclor 1242		4.4	U	4.4	9.5
Aroclor 1248		4.4	U	4.4	9.5
Aroclor 1254		14	P	2.5	9.5
Aroclor 1260		20		2.5	9.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	89		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF4**

Lab Sample ID: 280-13912-4
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 03/23/2011 0915
Date Received: 03/25/2011 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60129	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59450	Initial Weight/Volume:	35.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/30/2011 1622			Injection Volume:	1 uL
Prep Date:	03/25/2011 1950			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.5	U	2.5	8.9
Aroclor 1221		7.2	U	7.2	15
Aroclor 1232		1.8	U	1.8	8.9
Aroclor 1242		4.2	U	4.2	8.9
Aroclor 1248		4.2	U	4.2	8.9
Aroclor 1254		2.3	U	2.3	8.9
Aroclor 1260		2.3	U	2.3	8.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	78		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF5**

Lab Sample ID: 280-13912-5
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 03/23/2011 0920
Date Received: 03/25/2011 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60129	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59450	Initial Weight/Volume:	32.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/30/2011 1726			Injection Volume:	1 uL
Prep Date:	03/25/2011 1950			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.5
Aroclor 1221		7.7	U	7.7	16
Aroclor 1232		1.9	U	1.9	9.5
Aroclor 1242		4.4	U	4.4	9.5
Aroclor 1248		4.4	U	4.4	9.5
Aroclor 1254		2.5	U	2.5	9.5
Aroclor 1260		2.5	U	2.5	9.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	66		59 - 130
Tetrachloro-m-xylene	77		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF1**

Lab Sample ID: 280-13912-1
Client Matrix: Solid % Moisture: 6.1

Date Sampled: 03/23/2011 0845
Date Received: 03/25/2011 1000

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60133	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-59439	Lab File ID:	035B3501.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/29/2011 0218			Final Weight/Volume:	1000 uL
Prep Date:	03/25/2011 2058			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		100000		1100	4200
C10-C28		21000		720	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	90		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF2**

Lab Sample ID: 280-13912-2
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/23/2011 0850
Date Received: 03/25/2011 1000

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60133	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-59439	Lab File ID:	036B3601.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/29/2011 0245			Final Weight/Volume:	1000 uL
Prep Date:	03/25/2011 2058			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		95000		1000	4200
C10-C28		37000		710	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	78		49 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF3**

Lab Sample ID: 280-13912-3
Client Matrix: Solid

% Moisture: 2.1

Date Sampled: 03/23/2011 0900
Date Received: 03/25/2011 1000

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60133	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-59439	Lab File ID:	037B3701.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	03/29/2011 0313			Final Weight/Volume:	1000 uL
Prep Date:	03/25/2011 2058			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		41000		1000	4000
C10-C28		22000		680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	86		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF4**

Lab Sample ID: 280-13912-4
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 03/23/2011 0915
Date Received: 03/25/2011 1000

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60133	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-59439	Lab File ID:	038B3801.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	03/29/2011 0341			Final Weight/Volume:	1000 uL
Prep Date:	03/25/2011 2058			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		37000		1000	4100
C10-C28		15000		700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	96		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF5**

Lab Sample ID: 280-13912-5
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 03/23/2011 0920
Date Received: 03/25/2011 1000

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60137	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-59439	Lab File ID:	003B0301.D
Dilution:	25			Initial Weight/Volume:	30.0 g
Analysis Date:	03/29/2011 1040			Final Weight/Volume:	1000 uL
Prep Date:	03/25/2011 2058			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		7900000	D	26000	100000
C10-C28		7900000	D	18000	100000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	0	D	49 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF1**

Lab Sample ID: 280-13912-1
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 03/23/2011 0845
Date Received: 03/25/2011 1000

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-59775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-59437	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	03/29/2011 1357			Injection Volume:	20 uL
Prep Date:	03/25/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.5	U	9.5	110
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.4	U	3.4	16
Benzo[a]pyrene		6.8	U	6.8	16
Benzo[b]fluoranthene		4.4	U	4.4	16
Benzo[g,h,i]perylene		7.6	U	7.6	32
Benzo[k]fluoranthene		4.2	U	4.2	16
Chrysene		5.1	U	5.1	42
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		14	U	14	42
Fluorene		5.6	U	5.6	32
Indeno[1,2,3-cd]pyrene		13	U	13	32
Naphthalene		13	U	13	110
Phenanthrene		13	U	13	42
Pyrene		13	U	13	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	92		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF2**

Lab Sample ID: 280-13912-2
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/23/2011 0850
Date Received: 03/25/2011 1000

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-59775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-59437	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	03/29/2011 1427			Injection Volume:	20 uL
Prep Date:	03/25/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.5	U	9.5	110
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.4	U	3.4	16
Benzo[a]pyrene		6.7	U	6.7	16
Benzo[b]fluoranthene		4.4	U	4.4	16
Benzo[g,h,i]perylene		7.6	U	7.6	32
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		5.1	U	5.1	42
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		14	U	14	42
Fluorene		5.5	U	5.5	32
Indeno[1,2,3-cd]pyrene		13	U	13	32
Naphthalene		13	U	13	110
Phenanthrene		13	U	13	42
Pyrene		13	U	13	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	92		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF3**

Lab Sample ID: 280-13912-3
Client Matrix: Solid
% Moisture: 2.1

Date Sampled: 03/23/2011 0900
Date Received: 03/25/2011 1000

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-59775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-59437	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	03/29/2011 1559			Injection Volume:	20 uL
Prep Date:	03/25/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.9	U	9.9	99
Acenaphthylene		8.9	U	8.9	99
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		41		6.3	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.1	U	7.1	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		15	J	4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.2	U	5.2	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	99
Phenanthrene		12	U	12	40
Pyrene		14	J X	12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	97		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF4**

Lab Sample ID: 280-13912-4
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 03/23/2011 0915
Date Received: 03/25/2011 1000

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-59775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-59437	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	03/29/2011 1629			Injection Volume:	20 uL
Prep Date:	03/25/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.4	U	9.4	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	16
Benzo[a]pyrene		6.7	U	6.7	16
Benzo[b]fluoranthene		4.4	U	4.4	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		5.0	U	5.0	42
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		14	U	14	42
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		13	U	13	31
Naphthalene		13	U	13	100
Phenanthrene		13	U	13	42
Pyrene		13	U	13	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	95		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF5**

Lab Sample ID: 280-13912-5
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 03/23/2011 0920
Date Received: 03/25/2011 1000

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-59775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-59437	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	03/29/2011 1700			Injection Volume:	20 uL
Prep Date:	03/25/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		490	X	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.1	U	3.1	21
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		6.6	U	6.6	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.1	U	4.1	15
Chrysene		170	X	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		180	X	5.4	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	309	*	72 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF1**

Lab Sample ID: 280-13912-1
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 03/23/2011 0845
Date Received: 03/25/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60264	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59404	Lab File ID:	25A4033111.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	03/31/2011 2202			Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7780		1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		2.4		0.64	0.98
Barium		99.3		0.074	0.49
Beryllium		0.13	B	0.032	0.20
Boron		3.5		0.96	2.0
Cadmium		0.062	B	0.040	0.20
Calcium		4830		13.8	48.9
Chromium		11.1		0.057	0.20
Cobalt		6.2	X	0.098	0.98
Copper		13.8		0.21	0.98
Iron		16200		3.7	4.9
Lead		3.4		0.26	0.49
Magnesium		4080		3.6	19.5
Manganese		281		0.098	0.98
Molybdenum		0.26	B	0.25	2.0
Nickel		10.5		0.12	3.9
Potassium		1220		40.1	293
Selenium		0.84	U	0.84	0.98
Silicon		195	N	5.5	9.8
Silver		0.16	U	0.16	0.20
Vanadium		44.9		0.092	2.0
Zinc		34.0	X	0.39	0.98

Analysis Method:	6010B	Analysis Batch:	280-60508	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59404	Lab File ID:	25A1040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	04/01/2011 1314			Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Sodium		232		57.6	117

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59430	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	03/31/2011 2234			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0057	U	0.0057	0.018

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF2**

Lab Sample ID: 280-13912-2
Client Matrix: Solid

% Moisture: 5.2

Date Sampled: 03/23/2011 0850
Date Received: 03/25/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60264	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59404	Lab File ID:	25A4033111.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	03/31/2011 2212			Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8520		1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		2.3		0.64	0.97
Barium		266		0.074	0.48
Beryllium		0.21		0.032	0.19
Boron		12.8		0.95	1.9
Cadmium		0.069	B	0.040	0.19
Calcium		7630		13.6	48.4
Chromium		10.7		0.056	0.19
Cobalt		6.5	X	0.097	0.97
Copper		14.3		0.21	0.97
Iron		16700		3.7	4.8
Lead		3.9		0.26	0.48
Magnesium		4800		3.6	19.3
Manganese		284		0.097	0.97
Molybdenum		0.37	B	0.25	1.9
Nickel		12.7		0.12	3.9
Potassium		1200		39.7	290
Selenium		0.83	U	0.83	0.97
Silicon		249		5.5	9.7
Silver		0.15	U	0.15	0.19
Vanadium		44.8		0.091	1.9
Zinc		34.5	X	0.38	0.97

Analysis Method:	6010B	Analysis Batch:	280-60508	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59404	Lab File ID:	25A1040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	04/01/2011 1323			Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Sodium		398		57.1	116

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59430	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	03/31/2011 2237			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0056	U	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF3**

Lab Sample ID: 280-13912-3
Client Matrix: Solid
% Moisture: 2.1

Date Sampled: 03/23/2011 0900
Date Received: 03/25/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60264	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59404	Lab File ID:	25A4033111.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	03/31/2011 2214			Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7800		1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		2.3		0.60	0.90
Barium		323		0.069	0.45
Beryllium		0.24		0.030	0.18
Boron		15.2		0.89	1.8
Cadmium		0.071	B	0.037	0.18
Calcium		8440		12.7	45.2
Chromium		10.2		0.052	0.18
Cobalt		6.9	X	0.090	0.90
Copper		18.7		0.20	0.90
Iron		17300		3.4	4.5
Lead		13.2		0.24	0.45
Magnesium		4460		3.3	18.1
Manganese		289		0.090	0.90
Molybdenum		0.46	B	0.24	1.8
Nickel		12.7		0.11	3.6
Potassium		942		37.1	271
Selenium		0.78	U	0.78	0.90
Silicon		296		5.1	9.0
Silver		0.14	U	0.14	0.18
Vanadium		50.0		0.085	1.8
Zinc		45.3	X	0.36	0.90

Analysis Method:	6010B	Analysis Batch:	280-60508	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59404	Lab File ID:	25A1040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	04/01/2011 1326			Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Sodium		458		53.3	108

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59430	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	03/31/2011 2239			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.019		0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF4**

Lab Sample ID: 280-13912-4
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 03/23/2011 0915
Date Received: 03/25/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60264	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59404	Lab File ID:	25A4033111.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	03/31/2011 2217			Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6880		1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		2.6		0.64	0.96
Barium		70.4		0.073	0.48
Beryllium		0.099	B	0.032	0.19
Boron		1.6	B	0.94	1.9
Cadmium		0.067	B	0.039	0.19
Calcium		4400		13.6	48.1
Chromium		9.8		0.056	0.19
Cobalt		6.1	X	0.096	0.96
Copper		12.8		0.21	0.96
Iron		15900		3.7	4.8
Lead		4.0		0.26	0.48
Magnesium		3960		3.6	19.3
Manganese		276		0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		10.7		0.12	3.9
Potassium		991		39.5	289
Selenium		0.83	U	0.83	0.96
Silicon		246		5.4	9.6
Silver		0.15	U	0.15	0.19
Vanadium		44.5		0.090	1.9
Zinc		33.6	X	0.38	0.96

Analysis Method:	6010B	Analysis Batch:	280-60508	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59404	Lab File ID:	25A1040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	04/01/2011 1328			Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Sodium		205		56.8	116

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59430	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	03/31/2011 2241			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0051	U	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Client Sample ID: **J1FXF5**

Lab Sample ID: 280-13912-5
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 03/23/2011 0920
Date Received: 03/25/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60264	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59404	Lab File ID:	25A4033111.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	03/31/2011 2219			Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7840		1.3	4.3
Antimony		0.33	U	0.33	0.52
Arsenic		2.6		0.57	0.87
Barium		141		0.066	0.43
Beryllium		0.16	B	0.029	0.17
Boron		4.9		0.85	1.7
Cadmium		0.055	B	0.036	0.17
Calcium		5780		12.2	43.4
Chromium		10.1		0.050	0.17
Cobalt		6.1	X	0.087	0.87
Copper		13.6		0.19	0.87
Iron		15900		3.3	4.3
Lead		4.0		0.23	0.43
Magnesium		4260		3.2	17.4
Manganese		274		0.087	0.87
Molybdenum		0.23	U	0.23	1.7
Nickel		11.4		0.11	3.5
Potassium		1190		35.6	261
Selenium		0.75	U	0.75	0.87
Silicon		309		4.9	8.7
Silver		0.14	U	0.14	0.17
Vanadium		42.9		0.082	1.7
Zinc		34.0	X	0.35	0.87

Analysis Method:	6010B	Analysis Batch:	280-60508	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59404	Lab File ID:	25A1040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	04/01/2011 1330			Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Sodium		257		51.3	104

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59430	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	03/31/2011 2244			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0051	U N	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

General Chemistry

Client Sample ID: **J1FXF1**

Lab Sample ID: 280-13912-1
Client Matrix: Solid

Date Sampled: 03/23/2011 0845
Date Received: 03/25/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59388 Analysis Date: 03/25/2011 1342 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

General Chemistry

Client Sample ID: **J1FXF2**

Lab Sample ID: 280-13912-2
Client Matrix: Solid

Date Sampled: 03/23/2011 0850
Date Received: 03/25/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59388 Analysis Date: 03/25/2011 1342 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

General Chemistry

Client Sample ID: **J1FXF3**

Lab Sample ID: 280-13912-3
Client Matrix: Solid

Date Sampled: 03/23/2011 0900
Date Received: 03/25/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59388 Analysis Date: 03/25/2011 1342 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

General Chemistry

Client Sample ID: **J1FXF4**

Lab Sample ID: 280-13912-4
Client Matrix: Solid

Date Sampled: 03/23/2011 0915
Date Received: 03/25/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59388 Analysis Date: 03/25/2011 1342 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

General Chemistry

Client Sample ID: **J1FXF5**

Lab Sample ID: 280-13912-5
Client Matrix: Solid

Date Sampled: 03/23/2011 0920
Date Received: 03/25/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59388 Analysis Date: 03/25/2011 1342 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 280-59393					
LCS 280-59393/2-A	Lab Control Sample	T	Solid	5030B	
MB 280-59393/1-A	Method Blank	T	Solid	5030B	
280-13912-1	J1FXF1	T	Solid	5030B	
280-13912-2	J1FXF2	T	Solid	5030B	
280-13912-3	J1FXF3	T	Solid	5030B	
280-13912-4	J1FXF4	T	Solid	5030B	
280-13912-5	J1FXF5	T	Solid	5030B	
280-13912-5MS	Matrix Spike	T	Solid	5030B	
280-13912-5MSD	Matrix Spike Duplicate	T	Solid	5030B	
Analysis Batch:280-59573					
LCS 280-59393/2-A	Lab Control Sample	T	Solid	8260B	280-59393
MB 280-59393/1-A	Method Blank	T	Solid	8260B	280-59393
280-13912-1	J1FXF1	T	Solid	8260B	280-59393
280-13912-2	J1FXF2	T	Solid	8260B	280-59393
280-13912-3	J1FXF3	T	Solid	8260B	280-59393
280-13912-4	J1FXF4	T	Solid	8260B	280-59393
280-13912-5	J1FXF5	T	Solid	8260B	280-59393
280-13912-5MS	Matrix Spike	T	Solid	8260B	280-59393
280-13912-5MSD	Matrix Spike Duplicate	T	Solid	8260B	280-59393

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Prep Batch: 280-59993					
LCS 280-59993/1-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-59993/2-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-59993/3-A	Method Blank	T	Solid	5030B	
280-13912-1	J1FXF1	T	Solid	5030B	
280-13912-1MS	Matrix Spike	T	Solid	5030B	
280-13912-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
280-13912-2	J1FXF2	T	Solid	5030B	
280-13912-3	J1FXF3	T	Solid	5030B	
280-13912-4	J1FXF4	T	Solid	5030B	
280-13912-5	J1FXF5	T	Solid	5030B	
Analysis Batch:280-60911					
LCS 280-59993/1-A	Lab Control Sample	T	Solid	NWTPH-Gx	280-59993
LCSD 280-59993/2-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Gx	280-59993
MB 280-59993/3-A	Method Blank	T	Solid	NWTPH-Gx	280-59993
280-13912-1	J1FXF1	T	Solid	NWTPH-Gx	280-59993
280-13912-1MS	Matrix Spike	T	Solid	NWTPH-Gx	280-59993
280-13912-1MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Gx	280-59993
280-13912-2	J1FXF2	T	Solid	NWTPH-Gx	280-59993
280-13912-3	J1FXF3	T	Solid	NWTPH-Gx	280-59993
280-13912-4	J1FXF4	T	Solid	NWTPH-Gx	280-59993
280-13912-5	J1FXF5	T	Solid	NWTPH-Gx	280-59993

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-59439					
LCS 280-59439/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-59439/1-A	Method Blank	T	Solid	3550C	
280-13912-1	J1FXF1	T	Solid	3550C	
280-13912-2	J1FXF2	T	Solid	3550C	
280-13912-3	J1FXF3	T	Solid	3550C	
280-13912-4	J1FXF4	T	Solid	3550C	
280-13912-5	J1FXF5	T	Solid	3550C	
280-13912-5MS	Matrix Spike	T	Solid	3550C	
280-13912-5MSD	Matrix Spike Duplicate	T	Solid	3550C	
Prep Batch: 280-59450					
LCS 280-59450/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-59450/1-A	Method Blank	T	Solid	3550C	
280-13912-1	J1FXF1	T	Solid	3550C	
280-13912-2	J1FXF2	T	Solid	3550C	
280-13912-3	J1FXF3	T	Solid	3550C	
280-13912-4	J1FXF4	T	Solid	3550C	
280-13912-4MS	Matrix Spike	T	Solid	3550C	
280-13912-4MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13912-5	J1FXF5	T	Solid	3550C	
Analysis Batch:280-60129					
LCS 280-59450/2-A	Lab Control Sample	T	Solid	8082	280-59450
MB 280-59450/1-A	Method Blank	T	Solid	8082	280-59450
280-13912-1	J1FXF1	T	Solid	8082	280-59450
280-13912-2	J1FXF2	T	Solid	8082	280-59450
280-13912-3	J1FXF3	T	Solid	8082	280-59450
280-13912-4	J1FXF4	T	Solid	8082	280-59450
280-13912-4MS	Matrix Spike	T	Solid	8082	280-59450
280-13912-4MSD	Matrix Spike Duplicate	T	Solid	8082	280-59450
280-13912-5	J1FXF5	T	Solid	8082	280-59450
Analysis Batch:280-60130					
LCS 280-59450/2-A	Lab Control Sample	T	Solid	8082	280-59450
MB 280-59450/1-A	Method Blank	T	Solid	8082	280-59450
280-13912-3	J1FXF3	T	Solid	8082	280-59450
Analysis Batch:280-60133					
LCS 280-59439/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-59439
MB 280-59439/1-A	Method Blank	T	Solid	NWTPH-Dx	280-59439
280-13912-1	J1FXF1	T	Solid	NWTPH-Dx	280-59439
280-13912-2	J1FXF2	T	Solid	NWTPH-Dx	280-59439
280-13912-3	J1FXF3	T	Solid	NWTPH-Dx	280-59439
280-13912-4	J1FXF4	T	Solid	NWTPH-Dx	280-59439

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-60137					
280-13912-5	J1FXF5	T	Solid	NWTPH-Dx	280-59439
280-13912-5MS	Matrix Spike	T	Solid	NWTPH-Dx	280-59439
280-13912-5MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-59439

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-59404					
LCS 280-59404/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-59404/1-A	Method Blank	T	Solid	3050B	
280-13912-1	J1FXF1	T	Solid	3050B	
280-13912-1DU	Duplicate	T	Solid	3050B	
280-13912-1MS	Matrix Spike	T	Solid	3050B	
280-13912-2	J1FXF2	T	Solid	3050B	
280-13912-3	J1FXF3	T	Solid	3050B	
280-13912-4	J1FXF4	T	Solid	3050B	
280-13912-5	J1FXF5	T	Solid	3050B	
Prep Batch: 280-59430					
LCS 280-59430/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-59430/1-A	Method Blank	T	Solid	7471A	
280-13912-1	J1FXF1	T	Solid	7471A	
280-13912-2	J1FXF2	T	Solid	7471A	
280-13912-3	J1FXF3	T	Solid	7471A	
280-13912-4	J1FXF4	T	Solid	7471A	
280-13912-5	J1FXF5	T	Solid	7471A	
280-13912-5DU	Duplicate	T	Solid	7471A	
280-13912-5MS	Matrix Spike	T	Solid	7471A	
Analysis Batch:280-60264					
LCS 280-59404/2-A	Lab Control Sample	T	Solid	6010B	280-59404
MB 280-59404/1-A	Method Blank	T	Solid	6010B	280-59404
280-13912-1	J1FXF1	T	Solid	6010B	280-59404
280-13912-1DU	Duplicate	T	Solid	6010B	280-59404
280-13912-1MS	Matrix Spike	T	Solid	6010B	280-59404
280-13912-2	J1FXF2	T	Solid	6010B	280-59404
280-13912-3	J1FXF3	T	Solid	6010B	280-59404
280-13912-4	J1FXF4	T	Solid	6010B	280-59404
280-13912-5	J1FXF5	T	Solid	6010B	280-59404
Analysis Batch:280-60271					
LCS 280-59430/2-A	Lab Control Sample	T	Solid	7471A	280-59430
MB 280-59430/1-A	Method Blank	T	Solid	7471A	280-59430
280-13912-1	J1FXF1	T	Solid	7471A	280-59430
280-13912-2	J1FXF2	T	Solid	7471A	280-59430
280-13912-3	J1FXF3	T	Solid	7471A	280-59430
280-13912-4	J1FXF4	T	Solid	7471A	280-59430
280-13912-5	J1FXF5	T	Solid	7471A	280-59430
280-13912-5DU	Duplicate	T	Solid	7471A	280-59430
280-13912-5MS	Matrix Spike	T	Solid	7471A	280-59430

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-60508					
LCS 280-59404/2-A	Lab Control Sample	T	Solid	6010B	280-59404
MB 280-59404/1-A	Method Blank	T	Solid	6010B	280-59404
280-13912-1	J1FXF1	T	Solid	6010B	280-59404
280-13912-1DU	Duplicate	T	Solid	6010B	280-59404
280-13912-1MS	Matrix Spike	T	Solid	6010B	280-59404
280-13912-2	J1FXF2	T	Solid	6010B	280-59404
280-13912-3	J1FXF3	T	Solid	6010B	280-59404
280-13912-4	J1FXF4	T	Solid	6010B	280-59404
280-13912-5	J1FXF5	T	Solid	6010B	280-59404

Report Basis
T = Total

General Chemistry

Analysis Batch:280-59388				
280-13912-1	J1FXF1	T	Solid	D-2216
280-13912-1DU	Duplicate	T	Solid	D-2216
280-13912-2	J1FXF2	T	Solid	D-2216
280-13912-3	J1FXF3	T	Solid	D-2216
280-13912-4	J1FXF4	T	Solid	D-2216
280-13912-5	J1FXF5	T	Solid	D-2216

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-59437					
LCS 280-59437/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-59437/1-A	Method Blank	T	Solid	3550C	
280-13912-1	J1FXF1	T	Solid	3550C	
280-13912-2	J1FXF2	T	Solid	3550C	
280-13912-2MS	Matrix Spike	T	Solid	3550C	
280-13912-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13912-3	J1FXF3	T	Solid	3550C	
280-13912-4	J1FXF4	T	Solid	3550C	
280-13912-5	J1FXF5	T	Solid	3550C	
Analysis Batch:280-59775					
LCS 280-59437/2-A	Lab Control Sample	T	Solid	8310	280-59437
MB 280-59437/1-A	Method Blank	T	Solid	8310	280-59437
280-13912-1	J1FXF1	T	Solid	8310	280-59437
280-13912-2	J1FXF2	T	Solid	8310	280-59437
280-13912-2MS	Matrix Spike	T	Solid	8310	280-59437
280-13912-2MSD	Matrix Spike Duplicate	T	Solid	8310	280-59437
280-13912-3	J1FXF3	T	Solid	8310	280-59437
280-13912-4	J1FXF4	T	Solid	8310	280-59437
280-13912-5	J1FXF5	T	Solid	8310	280-59437

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Method Blank - Batch: 280-59393

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-59393/1-A	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-59393	Lab File ID:	J5696.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	03/25/2011 1310	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	5.4	U	5.4	20
Benzene	0.47	U	0.47	5.0
Bromodichloromethane	0.22	U	0.22	5.0
Bromoform	0.23	U	0.23	5.0
Bromomethane	0.50	U	0.50	10
2-Butanone (MEK)	1.8	U	1.8	10
Carbon disulfide	0.42	U	0.42	5.0
Carbon tetrachloride	0.63	U	0.63	5.0
Chlorobenzene	0.54	U	0.54	5.0
Dibromochloromethane	0.57	U	0.57	5.0
Chloroethane	0.89	U	0.89	10
Chloroform	0.29	U	0.29	5.0
Chloromethane	0.77	U	0.77	10
1,3-Dichlorobenzene	0.48	U	0.48	5.0
1,1-Dichloroethane	0.21	U	0.21	5.0
1,2-Dichloroethane	0.70	U	0.70	5.0
trans-1,2-Dichloroethene	0.39	U	0.39	2.5
1,1-Dichloroethene	0.59	U	0.59	5.0
1,2-Dichloroethene, Total	0.39	U	0.39	5.0
1,2-Dichloropropane	0.55	U	0.55	5.0
cis-1,3-Dichloropropene	1.3	U	1.3	5.0
trans-1,3-Dichloropropene	0.67	U	0.67	5.0
Ethylbenzene	0.67	U	0.67	5.0
2-Hexanone	4.9	U	4.9	20
Methylene Chloride	1.73	J	0.75	5.0
4-Methyl-2-pentanone (MIBK)	4.4	U	4.4	10
Styrene	0.63	U	0.63	5.0
1,1,2,2-Tetrachloroethane	0.61	U	0.61	5.0
Tetrachloroethene	0.59	U	0.59	5.0
Toluene	0.69	U	0.69	5.0
1,1,1-Trichloroethane	0.52	U	0.52	5.0
1,1,2-Trichloroethane	0.88	U	0.88	5.0
Trichloroethene	0.23	U	0.23	5.0
Vinyl chloride	1.3	U	1.3	5.0
Xylenes, Total	0.61	U	0.61	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84	58 - 140
Toluene-d8 (Surr)	83	80 - 126
4-Bromofluorobenzene (Surr)	89	76 - 127
Dibromofluoromethane (Surr)	92	75 - 121

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Method Blank TICs- Batch: 280-59393

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	2.24	127	N J

Lab Control Sample - Batch: 280-59393

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-59393/2-A	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-59393	Lab File ID:	J5693.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	03/25/2011 1029	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	44.9	90	76 - 120	
Bromodichloromethane	50.0	41.5	83	74 - 125	
Carbon tetrachloride	50.0	44.7	89	69 - 147	
Chlorobenzene	50.0	43.0	86	74 - 120	
Chloroform	50.0	43.4	87	77 - 125	
1,3-Dichlorobenzene	50.0	42.3	85	74 - 120	
1,1-Dichloroethane	50.0	43.5	87	74 - 120	
trans-1,2-Dichloroethene	50.0	46.0	92	80 - 127	
1,1-Dichloroethene	50.0	46.5	93	77 - 143	
1,2-Dichloropropane	50.0	41.2	82	74 - 120	
Ethylbenzene	50.0	42.7	85	78 - 120	
Methylene Chloride	50.0	44.1	88	76 - 137	
Tetrachloroethene	50.0	47.5	95	71 - 120	
Toluene	50.0	41.9	84	72 - 120	
1,1,1-Trichloroethane	50.0	43.5	87	67 - 143	
Trichloroethene	50.0	43.1	86	78 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	83	58 - 140
Toluene-d8 (Surr)	90	80 - 126
4-Bromofluorobenzene (Surr)	82	76 - 127
Dibromofluoromethane (Surr)	87	75 - 121

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59393

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-13912-5	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-59393	Lab File ID:	J5699.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.644 g
Analysis Date:	03/25/2011 1509			Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				
Leach Date:	N/A				

MSD Lab Sample ID:	280-13912-5	Analysis Batch:	280-59573	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-59393	Lab File ID:	J5700.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.239 g
Analysis Date:	03/25/2011 1532			Final Weight/Volume:	5 mL
Prep Date:	03/25/2011 0600				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	94	104	76 - 120	17	20		
Bromodichloromethane	89	92	74 - 125	11	20		
Carbon tetrachloride	85	91	69 - 147	15	20		
Chlorobenzene	86	94	74 - 120	17	20		
Chloroform	98	101	77 - 125	11	20		
1,3-Dichlorobenzene	83	91	74 - 120	17	20		
1,1-Dichloroethane	89	88	74 - 120	6	20		
trans-1,2-Dichloroethene	90	98	80 - 127	16	20		
1,1-Dichloroethene	94	97	77 - 143	11	20		
1,2-Dichloropropane	86	95	74 - 120	17	20		
Ethylbenzene	72	78	78 - 120	15	20	T	
Methylene Chloride	78	88	76 - 137	18	21		
Tetrachloroethene	77	79	71 - 120	10	20		
Toluene	81	78	72 - 120	3	20		
1,1,1-Trichloroethane	94	98	67 - 143	12	20		
Trichloroethene	85	95	78 - 120	19	20		

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		115		58 - 140
Toluene-d8 (Surr)	113		131	*	80 - 126
4-Bromofluorobenzene (Surr)	136	*	180	*	76 - 127
Dibromofluoromethane (Surr)	104		120		75 - 121

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Method Blank - Batch: 280-59993

Method: NWTPH-Gx
Preparation: 5030B

Lab Sample ID:	MB 280-59993/3-A	Analysis Batch:	280-60911	Instrument ID:	GCV_K
Client Matrix:	Solid	Prep Batch:	280-59993	Lab File ID:	109F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.14 g
Analysis Date:	04/05/2011 1219	Units:	ug/Kg	Final Weight/Volume:	500 mL
Prep Date:	03/30/2011 1523			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Gasoline	482	J	320	1200

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene	95	77 - 123

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-59993

Method: NWTPH-Gx
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-59993/1-A	Analysis Batch:	280-60911	Instrument ID:	GCV_K
Client Matrix:	Solid	Prep Batch:	280-59993	Lab File ID:	107F0301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.16 g
Analysis Date:	04/05/2011 1054	Units:	ug/Kg	Final Weight/Volume:	500 mL
Prep Date:	03/30/2011 1523			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 280-59993/2-A	Analysis Batch:	280-60911	Instrument ID:	GCV_K
Client Matrix:	Solid	Prep Batch:	280-59993	Lab File ID:	108F0401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.16 g
Analysis Date:	04/05/2011 1136	Units:	ug/Kg	Final Weight/Volume:	500 mL
Prep Date:	03/30/2011 1523			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline	122	123	85 - 153	0	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	111	111	77 - 123

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59993

Method: NWTPH-Gx
Preparation: 5030B

MS Lab Sample ID:	280-13912-1	Analysis Batch:	280-60911	Instrument ID:	GCV_K
Client Matrix:	Solid	Prep Batch:	280-59993	Lab File ID:	111F0701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.18 g
Analysis Date:	04/05/2011 1343			Final Weight/Volume:	500 mL
Prep Date:	03/30/2011 1523			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-13912-1	Analysis Batch:	280-60911	Instrument ID:	GCV_K
Client Matrix:	Solid	Prep Batch:	280-59993	Lab File ID:	112F0801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.18 g
Analysis Date:	04/05/2011 1426			Final Weight/Volume:	500 mL
Prep Date:	03/30/2011 1523			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Gasoline	106	104	85 - 153	2	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	103	108	77 - 123

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Method Blank - Batch: 280-59450

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-59450/1-A	Analysis Batch:	280-60129	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-59450	Lab File ID:	037F3701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.9 g
Analysis Date:	03/30/2011 1413	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	03/25/2011 1950			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.6	U	2.6	9.4
Aroclor 1221	7.5	U	7.5	16
Aroclor 1232	1.9	U	1.9	9.4
Aroclor 1242	4.4	U	4.4	9.4
Aroclor 1248	4.4	U	4.4	9.4
Aroclor 1254	2.4	U	2.4	9.4
Aroclor 1260	2.4	U	2.4	9.4

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	99	59 - 130
Tetrachloro-m-xylene	94	53 - 128

Lab Control Sample - Batch: 280-59450

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-59450/2-A	Analysis Batch:	280-60129	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-59450	Lab File ID:	038F3801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.7 g
Analysis Date:	03/30/2011 1435	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	03/25/2011 1950			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	30.6	28.9	94	54 - 132	
Aroclor 1260	30.6	29.8	97	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	99	59 - 130
Tetrachloro-m-xylene	93	53 - 128

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59450

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-13912-4	Analysis Batch:	280-60129	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-59450	Lab File ID:	044F4401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.3 g
Analysis Date:	03/30/2011 1644			Final Weight/Volume:	5000 uL
Prep Date:	03/25/2011 1950			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-13912-4	Analysis Batch:	280-60129	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-59450	Lab File ID:	045F4501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.5 g
Analysis Date:	03/30/2011 1705			Final Weight/Volume:	5000 uL
Prep Date:	03/25/2011 1950			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	91	92	54 - 132	2	26		
Aroclor 1260	101	100	62 - 129	5	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	82	81	59 - 130
Tetrachloro-m-xylene	94	95	53 - 128

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Method Blank - Batch: 280-59439

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-59439/1-A	Analysis Batch:	280-60133	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-59439	Lab File ID:	033B3301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	03/29/2011 0122	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/25/2011 2058			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	1000	U	1000	4000
C10-C28	680	U	680	4000

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	94	49 - 115

Lab Control Sample - Batch: 280-59439

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	LCS 280-59439/2-A	Analysis Batch:	280-60133	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-59439	Lab File ID:	034B3401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	03/29/2011 0150	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/25/2011 2058			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C10-C36	66700	70500	106	57 - 115	
C10-C28	66700	70600	106	53 - 115	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	91	49 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59439

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-13912-5	Analysis Batch:	280-60137	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-59439	Lab File ID:	004B0401.D
Dilution:	25	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	03/29/2011 1108			Final Weight/Volume:	1000 uL
Prep Date:	03/25/2011 2058			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-13912-5	Analysis Batch:	280-60137	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-59439	Lab File ID:	005B0501.D
Dilution:	25	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	03/29/2011 1136			Final Weight/Volume:	1000 uL
Prep Date:	03/25/2011 2058			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	-2314	-1010	57 - 115	13	23	D	D
C10-C28	-2313	-1009	56 - 115	13	23	D	D

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
o-Terphenyl	0	D	0	D	49 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Method Blank - Batch: 280-59437

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-59437/1-A	Analysis Batch:	280-59775	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-59437	Lab File ID:	G0329008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	03/29/2011 1256	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	03/25/2011 1813			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	10	U	10	100
Acenaphthylene	9.0	U	9.0	100
Anthracene	3.1	U	3.1	20
Benzo[a]anthracene	3.2	U	3.2	15
Benzo[a]pyrene	6.4	U	6.4	15
Benzo[b]fluoranthene	4.2	U	4.2	15
Benzo[g,h,i]perylene	7.2	U	7.2	30
Benzo[k]fluoranthene	3.9	U	3.9	15
Chrysene	4.8	U	4.8	40
Dibenzo(a,h)anthracene	11	U	11	30
Fluoranthene	13	U	13	40
Fluorene	5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene	12	U	12	30
Naphthalene	12	U	12	100
Phenanthrene	12	U	12	40
Pyrene	12	U	12	40

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	92	72 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Lab Control Sample - Batch: 280-59437

Method: 8310
Preparation: 3550C

Lab Sample ID:	LCS 280-59437/2-A	Analysis Batch:	280-59775	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-59437	Lab File ID:	G0329009.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	03/29/2011 1326	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	03/25/2011 1813			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2000	1790	89	72 - 115	
Acenaphthylene	2000	1830	92	60 - 115	
Anthracene	2000	1710	86	61 - 115	
Benzo[a]anthracene	2000	2040	102	76 - 115	
Benzo[a]pyrene	2000	1640	82	69 - 115	
Benzo[b]fluoranthene	2000	1950	98	81 - 115	
Benzo[g,h,i]perylene	2000	1860	93	71 - 115	
Benzo[k]fluoranthene	2000	1970	98	85 - 115	
Chrysene	2000	1940	97	70 - 115	
Dibenzo(a,h)anthracene	2000	1980	99	79 - 115	
Fluoranthene	2000	1950	97	67 - 115	
Fluorene	2000	1880	94	72 - 115	
Indeno[1,2,3-cd]pyrene	2000	2060	103	76 - 115	
Naphthalene	2000	1920	96	77 - 115	
Phenanthrene	2000	1920	96	79 - 115	
Pyrene	2000	1950	98	77 - 115	

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	90	72 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59437

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-13912-2	Analysis Batch:	280-59775	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-59437	Lab File ID:	G0329012.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	03/29/2011 1458			Final Weight/Volume:	4000 uL
Prep Date:	03/25/2011 1813			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-13912-2	Analysis Batch:	280-59775	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-59437	Lab File ID:	G0329013.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	03/29/2011 1528			Final Weight/Volume:	4000 uL
Prep Date:	03/25/2011 1813			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	93	95	72 - 115	1	20		
Acenaphthylene	93	93	60 - 115	1	21		
Anthracene	88	88	61 - 115	1	20		
Benzo[a]anthracene	103	104	76 - 115	0	20		
Benzo[a]pyrene	86	82	69 - 115	5	20		
Benzo[b]fluoranthene	100	99	81 - 115	1	20		
Benzo[g,h,i]perylene	94	93	71 - 115	2	20		
Benzo[k]fluoranthene	101	99	85 - 115	2	20		
Chrysene	98	98	70 - 115	0	20		
Dibenzo(a,h)anthracene	100	101	79 - 115	0	20		
Fluoranthene	100	100	67 - 115	0	20		
Fluorene	97	97	72 - 115	1	20		
Indeno[1,2,3-cd]pyrene	105	104	76 - 115	2	20		
Naphthalene	99	98	77 - 115	1	20		
Phenanthrene	99	99	79 - 115	0	20		
Pyrene	100	101	77 - 115	0	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	93	94	72 - 115

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Method Blank - Batch: 280-59404

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-59404/1-A	Analysis Batch:	280-60264	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59404	Lab File ID:	25A4033111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	03/31/2011 2158	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				
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	0.0890	B	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
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Method Blank - Batch: 280-59404

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-59404/1-A	Analysis Batch:	280-60508	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59404	Lab File ID:	25A1040111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/01/2011 1309	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Sodium	59.0	U	59.0	120

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Lab Control Sample - Batch: 280-59404

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-59404/2-A	Analysis Batch:	280-60264	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59404	Lab File ID:	25A4033111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	03/31/2011 2200	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	176.6	88	82 - 116	
Antimony	50.0	47.08	94	82 - 110	
Arsenic	100	89.49	89	85 - 110	
Barium	200	212.8	106	87 - 112	
Beryllium	5.00	4.78	96	84 - 114	
Boron	100	92.19	92	81 - 110	
Cadmium	10.0	10.21	102	87 - 110	
Calcium	5000	4942	99	82 - 114	
Chromium	20.0	19.96	100	84 - 114	
Cobalt	50.0	48.37	97	87 - 110	
Copper	25.0	23.11	92	88 - 110	
Iron	100	92.57	93	87 - 120	
Lead	50.0	43.84	88	86 - 110	
Magnesium	5000	4676	94	90 - 110	
Manganese	50.0	50.28	101	88 - 110	
Molybdenum	100	101.6	102	86 - 110	
Nickel	50.0	48.78	98	87 - 110	
Potassium	5000	5298	106	89 - 110	
Selenium	200	198.4	99	83 - 110	
Silicon	1000	112.7	11	10 - 70	
Silver	5.00	5.18	104	87 - 114	
Vanadium	50.0	51.51	103	88 - 110	
Zinc	50.0	45.93	92	76 - 114	

Lab Control Sample - Batch: 280-59404

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-59404/2-A	Analysis Batch:	280-60508	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59404	Lab File ID:	25A1040111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/01/2011 1312	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sodium	5000	5262	105	90 - 112	

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Matrix Spike - Batch: 280-59404

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13912-1	Analysis Batch:	280-60264	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59404	Lab File ID:	25A4033111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.17 g
Analysis Date:	03/31/2011 2209	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	7780		182	9870	1149	50 - 200	4
Antimony	0.37	U	45.5	24.21	53	20 - 200	
Arsenic	2.4		91.0	76.69	82	76 - 111	
Barium	99.3		182	288.2	104	52 - 159	
Beryllium	0.13	B	4.55	4.10	87	72 - 105	
Boron	3.5		91.0	78.84	83	75 - 107	
Cadmium	0.062	B	9.10	8.61	94	40 - 130	
Calcium	4830		4550	10440	123	43 - 165	
Chromium	11.1		18.2	28.52	96	70 - 200	
Cobalt	6.2		45.5	46.07	88	72 - 106	
Copper	13.8		22.8	33.52	87	37 - 187	
Iron	16200		91.0	17250	1112	70 - 200	4
Lead	3.4		45.5	39.03	78	70 - 200	
Magnesium	4080		4550	8607	99	64 - 145	
Manganese	281		45.5	339.0	127	40 - 200	4
Molybdenum	0.26	B	91.0	83.13	91	75 - 103	
Nickel	10.5		45.5	51.75	91	61 - 126	
Potassium	1220		4550	5767	100	56 - 172	
Selenium	0.84	U	182	165.2	91	76 - 104	
Silicon	195		910	320.6	14	20 - 200	N
Silver	0.16	U	4.55	4.48	98	75 - 141	
Vanadium	44.9		45.5	93.77	107	50 - 169	
Zinc	34.0		45.5	73.04	86	70 - 200	

Matrix Spike - Batch: 280-59404

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13912-1	Analysis Batch:	280-60508	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59404	Lab File ID:	25A1040111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.17 g
Analysis Date:	04/01/2011 1321	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Sodium	232	4550	4886	102	78 - 111	

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Duplicate - Batch: 280-59404

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13912-1	Analysis Batch:	280-60264	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59404	Lab File ID:	25A4033111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	03/31/2011 2207	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	7780		7794	0.2	40	
Antimony	0.37	U	0.37	NC	40	U
Arsenic	2.4		2.18	11	30	
Barium	99.3		94.53	5	30	
Beryllium	0.13	B	0.136	6	30	B
Boron	3.5		2.96	16	30	
Cadmium	0.062	B	0.0621	0.9	30	B
Calcium	4830		4665	4	30	
Chromium	11.1		11.36	3	40	
Cobalt	6.2		6.24	0.7	30	
Copper	13.8		14.17	3	30	
Iron	16200		15730	3	40	
Lead	3.4		3.72	8	40	
Magnesium	4080		4046	0.9	30	
Manganese	281		276.1	2	40	
Molybdenum	0.26	B	0.26	NC	30	U
Nickel	10.5		11.48	9	30	
Potassium	1220		1255	3	40	
Selenium	0.84	U	0.85	NC	30	U
Silicon	195		230.0	17	40	
Silver	0.16	U	0.16	NC	30	U
Vanadium	44.9		42.84	5	30	
Zinc	34.0		32.87	3	40	

Duplicate - Batch: 280-59404

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13912-1	Analysis Batch:	280-60508	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59404	Lab File ID:	25A1040111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	04/01/2011 1318	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/31/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Sodium	232	230.7	0.4	30	

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Method Blank - Batch: 280-59430

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-59430/1-A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59430	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 2230	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-59430

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-59430/2-A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59430	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 2232	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.424	102	87 - 111	

Matrix Spike - Batch: 280-59430

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13912-5	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59430	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.67 g
Analysis Date:	03/31/2011 2248	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0051	U	0.386	0.331	86	87 - 111	N

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Duplicate - Batch: 280-59430

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13912-5	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59430	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.65 g
Analysis Date:	03/31/2011 2246	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0051	U	0.0053	NC	20	U

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13912-1
Sdg Number: J01061

Duplicate - Batch: 280-59388

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-13912-1	Analysis Batch:	280-59388	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:	03/25/2011 1342	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	6.1	6.3	3	20	

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-182-065	Page 1 of 1

Collector Ojeda, AJ	Company Contact JL Russell	Telephone No. 509-540-6502	Project Coordinator KESSNER, JH
Price Code ~~8L~~ 8K JR 3/22/11	Data Turnaround JR 3/22/11 ~~21 Days~~ 15 Days		
Project Designation ARRA 100F Remaining Sites Remediation - Soil In-Process	Sampling Location 100 F Legacy Diesel Spill		SAF No. RC-182
Ice Chest No. ERC-96-511	Field Logbook No. EL-1651	COA S11FX1Y000	Method of Shipment FedEx
Shipped To JR 3/22/11 TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No. NA		Bill of Lading/Air Bill No. 7945 7088 5037

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 degrees C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C				
Type of Container	G/P	G	aGs*	G	aG	aG				
No. of Container(s)	1	1	1 JR 3/22/11	1	1	1				
Volume	60mL	60mL	~~40mL~~ 60mL	60mL	60mL	60mL				
SAMPLE ANALYSIS	See item (1) in Special Instructions.	TPH-Diesel Range - WTPH-D +	TPH-Gasoline Range - WTPH-G	VOA - 8260A (TCL)	PAHs - 8310	PCBs - 8082				
Sample No. / Matrix * / Sample Date / Sample Time										
J1FXF1 / SOIL / 3-23-11 / 0845	X	X	X	X	X	X				
J1FXF2 / SOIL / 3-23-11 / 0850	X	X	X	X	X	X				
J1FXF3 / SOIL / 3-23-11 / 0900	X	X	X	X	X	X				
J1FXF4 / SOIL / 3-23-11 / 0915	X	X	X	X	X	X				
J1FXF5 / SOIL / 3-23-11 / 0920	X	X	X	X	X	X				

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
AJ Ojeda AJ Ojeda	3-23-11 @ 1203	JenRussell JenRussell	3-23-11 1203
JenRussell JenRussell	3/23/11 1615	A. Freier A. Freier	3-23-11 1615
A. Freier A. Freier WCH	3-24-11 1020	Fed Ex	
			3/25/11 0000

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Client List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) {Mercury}

REVIEWED BY JEB DATE 3-24-11

SDG # J01061

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 GC10TR -5.1.1

Analytical Due:

Report Due: 4/11/11 (Rush 11 day TAT)

Sample Check-in List

Date/Time Received: 3/25/11 1000 GM Screen Result 13 microR/hr

Client: Washington Closure Hanford SDG #: J01061 NA[ ] SAF #: RC-182 NA [ ]

Job Number: 13912 Chain of Custody # RC-182-065

Shipping Container ID: ERC-96-511 Air Bill # 7945790885037

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature °C: 5.2 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 15 MJ 3/25/11
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ] **Amount HNO_3 Added** ___
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ___

Sample Custodian: [signature] Date: 3/25/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[ ] No action necessary; process as is.

Project Manager [signature] Date 3/28/11

LS-023, Rev. 7, 1/08

From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 24MAR11
ActWgt: 74.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

Ref #
Invoice #
PO #
Dept #

FRI - 25 MAR A1
PRIORITY OVERNIGHT

TRK# 0201 7945 7088 5037

XH WHHA

80002
CO-US
DEN

50DG2/BDD9/7EFB

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