SAF-RC-224
100K Remaining Waste Sites – Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 5/7/12
INITIAL/DATE

COMMENTS:

SDG J01481 SAF-RC-224

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: 600-29

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-27979-1

SDG Number: J01481

Job Description: SAF# RC-224

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

Attention: Joan H Kessner

Approved for release.
Kae E Yoder
Project Manager II
5/3/2012 11:35 AM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
05/03/2012

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

The Lab Certification ID# is E87667.

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

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-27979-1

SDG #: J01481
SAF#: RC-224

Date SDG Closed: April 20, 2012
Data Deliverable: 15 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1P0T1	280-27979-1	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0T2	280-27979-2	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0T3	280-27979-3	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0T4	280-27979-4	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0T5	280-27979-5	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0T6	280-27979-6	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0T7	280-27979-7	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0T8	280-27979-8	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0T9	280-27979-9	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0V0	280-27979-10	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0V1	280-27979-11	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0V2	280-27979-12	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0V3	280-27979-13	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0V4	280-27979-14	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0V5	280-27979-15	6010B/7471	6010B/7471A
J1P0V6	280-27979-16	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0V7	280-27979-17	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0V8	280-27979-18	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0V9	280-27979-19	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1P0W0	280-27979-20	6010B/7471/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/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 4/20/2012 9:30 AM; the samples arrived in good conditions, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.6 C, 2.3 C, 4.2 C, 4.4 C and 5.6 C.

GC/MS SEMIVOLATILES - SW846 8270C

Surrogate Terphenyl-d14 was recovered outside the control limits, biased high, in several samples. This is an indicator that data may be biased high. As no detectable concentrations are present at levels greater than the reporting limits in the samples, corrective action is deemed unnecessary.

Compounds Benzo(b)fluoranthene and Benzo(k)fluoranthene were unresolved in sample J1P0V7 due to matrix interferences. It can be noted that these compounds were adequately resolved in associated standards, indicating the instrument is achieving separation. The combined peak was reported as Benzo(b)fluoranthene, while Benzo(k)fluoranthene was reported as undetected even though it may be present. Associated results have been flagged with a “K”.

Low levels of Bis(2-ethylhexyl) phthalate, a common laboratory contaminant, are present in the method blank associated with batch 280-116628. 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”.

Surrogate Terphenyl-d14 was recovered outside the control limits, biased high, in the method blank associated with batch 280-116628. This is an indicator that data may be biased high. As no detectable concentrations are present at levels greater than the reporting limits in the method blank, corrective action is deemed unnecessary.

The MS/MSD performed on sample J1P0T1 exhibited spike compound recoveries outside the control limits, and the associated sample results have been flagged “T”. 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 SEMIVOLATILES - SW846 8082 - PCBs

No anomalies were encountered.

GC SEMIVOLATILES - NWTPH-Dx - DRO

The method specified final extract volume is 1000 uLs; however, due to the nature of the sample matrix, sample J1P0V7 would not concentrate below 5000 uLs. The reporting limits have been elevated accordingly. The laboratory noted that the extract was black and viscous.

Low levels of C10-C28 are present in the method blank associated with batch 280-116631. Because the concentration in the method blank is not present at a level greater than half 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/MSD performed on sample J1P0W0 exhibited percent recoveries outside the control limits for C10-C36, and the associated sample result has been flagged “N”. 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.

TOTAL METALS - SW846 6010B/7471A

Serial dilution of a digestate in batch 280-116496 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an “X”.

Low levels of Zinc are present in the method blank associated with batch 280-116496. Because the concentration in the method blank is not present at a level greater than half the reporting limit, corrective action is deemed unnecessary.

Silicon was recovered outside the control limits, biased low, in the LCS associated with batch 280-116496 and in the Matrix Spike performed on sample J1P0W0 in batch 280-116496. The associated sample results have been flagged “N”. Silicon is a poor performer and has a history of reacting inconsistently. Data are reported as is.

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 J1P0W0; therefore, control limits are not applicable.

The duplicate analysis of sample J1P0T1 exhibited RPD data outside the control limits for Mercury, and the associated sample result has been flagged “M”. 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: 280-27979-1
Sdg Number: J01481

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	U	Analyzed for but not detected.
	K	Benzo (b&k) fluoranthene are unresolved due to matrix, result is reported as Benzo(b)fluoranthene.
	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 Semi VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	U	Analyzed for but not detected.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

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
	M	Sample duplicate precision not met.
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.
	C	The analyte was detected in both the sample and the assoicated QC blank, and the sample concentration was </= 5X the blank concentration.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C	
Ultrasonic Extraction	TAL DEN		SW846 3550C
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
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: 280-27979-1
Sdg Number: J01481

Method	Analyst	Analyst ID
SW846 8270C	Hoffman, Michael G	MGH
SW846 8082	Jackson, Todd D	TDJ
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Harre, John K	JKH
SW846 7471A	Rawlings, Brendon L	BLR
ASTM D-2216	Blythe, Scott	SB

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-27979-1	J1P0T1	Solid	04/18/2012 0842	04/20/2012 0930
280-27979-2	J1P0T2	Solid	04/18/2012 0844	04/20/2012 0930
280-27979-3	J1P0T3	Solid	04/18/2012 0850	04/20/2012 0930
280-27979-4	J1P0T4	Solid	04/18/2012 0830	04/20/2012 0930
280-27979-5	J1P0T5	Solid	04/18/2012 0835	04/20/2012 0930
280-27979-6	J1P0T6	Solid	04/18/2012 0840	04/20/2012 0930
280-27979-7	J1P0T7	Solid	04/18/2012 0852	04/20/2012 0930
280-27979-8	J1P0T8	Solid	04/18/2012 0854	04/20/2012 0930
280-27979-9	J1P0T9	Solid	04/18/2012 0820	04/20/2012 0930
280-27979-10	J1P0V0	Solid	04/18/2012 0805	04/20/2012 0930
280-27979-11	J1P0V1	Solid	04/18/2012 0810	04/20/2012 0930
280-27979-12	J1P0V2	Solid	04/18/2012 0904	04/20/2012 0930
280-27979-13	J1P0V3	Solid	04/18/2012 0715	04/20/2012 0930
280-27979-14FD	J1P0V4	Solid	04/18/2012 0820	04/20/2012 0930
280-27979-15EB	J1P0V5	Solid	04/18/2012 0720	04/20/2012 0930
280-27979-16	J1P0V6	Solid	04/18/2012 0902	04/20/2012 0930
280-27979-17	J1P0V7	Solid	04/18/2012 0740	04/20/2012 0930
280-27979-18	J1P0V8	Solid	04/18/2012 0745	04/20/2012 0930
280-27979-19	J1P0V9	Solid	04/18/2012 0750	04/20/2012 0930
280-27979-20	J1P0W0	Solid	04/18/2012 0730	04/20/2012 0930

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T1**

Lab Sample ID: 280-27979-1
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 04/18/2012 0842
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0425.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1235			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		18	U	18	340
Anthracene		18	U	18	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		17	U	17	340
Benzo[k]fluoranthene		42	U	42	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		96	J B	48	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		45	U T	45	340
Carbazole		38	U	38	340
4-Chloroaniline		85	U	85	340
4-Chloro-3-methylphenol		69	U	69	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		13	U	13	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		94	U	94	690
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		69	U	69	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U T	30	340
4,6-Dinitro-2-methylphenol		340	U	340	690
2,4-Dinitrophenol		350	U T	350	860
2,4-Dinitrotoluene		69	U	69	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U T	15	340
Fluoranthene		38	U T	38	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T1**

Lab Sample ID: 280-27979-1
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 04/18/2012 0842
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0425.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1235			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U T	52	340
3-Nitroaniline		76	U	76	340
4-Nitroaniline		76	U	76	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	690
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	690
Phenanthrene		18	U	18	340
Phenol		19	U	19	340
Pyrene		13	U	13	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	88		50 - 120
2-Fluorophenol	96		53 - 120
Nitrobenzene-d5	85		50 - 120
Phenol-d5	96		52 - 120
Terphenyl-d14	117		55 - 120
2,4,6-Tribromophenol	95		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T1**

Lab Sample ID: 280-27979-1
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 04/18/2012 0842
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0425.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1235			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **1**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2400	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T2**

Lab Sample ID: 280-27979-2
Client Matrix: Solid

% Moisture: 3.2

Date Sampled: 04/18/2012 0844
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0426.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	04/26/2012 1254			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		20	U	20	340
Benzo[a]pyrene		20	U	20	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		89	J B	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		84	U	84	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		92	U	92	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T2**

Lab Sample ID: 280-27979-2
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 04/18/2012 0844
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0426.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	04/26/2012 1254			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		75	U	75	340
4-Nitroaniline		74	U	74	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		99	U	99	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		21	U	21	340
Pentachlorophenol		340	U	340	680
Phenanthrene		17	U	17	340
Phenol		18	U	18	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	81		50 - 120
2-Fluorophenol	88		53 - 120
Nitrobenzene-d5	78		50 - 120
Phenol-d5	91		52 - 120
Terphenyl-d14	126	*	55 - 120
2,4,6-Tribromophenol	104		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T2**

Lab Sample ID: 280-27979-2
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 04/18/2012 0844
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0426.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	04/26/2012 1254			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2100	N J
	Unknown	11.12	280	N J
	Unknown	11.15	170	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T3**

Lab Sample ID: 280-27979-3
Client Matrix: Solid

% Moisture: 3.5

Date Sampled: 04/18/2012 0850
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0427.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	04/26/2012 1313			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		18	U	18	340
Anthracene		18	U	18	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		17	U	17	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		93	J B	48	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		85	U	85	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		93	U	93	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	850
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T3**

Lab Sample ID: 280-27979-3
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/18/2012 0850
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0427.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	04/26/2012 1313			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U	52	340
3-Nitroaniline		75	U	75	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	680
Phenanthrene		18	U	18	340
Phenol		19	U	19	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	87		50 - 120
2-Fluorophenol	95		53 - 120
Nitrobenzene-d5	85		50 - 120
Phenol-d5	95		52 - 120
Terphenyl-d14	122	*	55 - 120
2,4,6-Tribromophenol	100		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T3**

Lab Sample ID: 280-27979-3
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/18/2012 0850
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0427.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	04/26/2012 1313			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.82	150	N J
	Unknown	2.68	2400	N J
	Unknown	11.11	160	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T4**

Lab Sample ID: 280-27979-4
Client Matrix: Solid

% Moisture: 5.4

Date Sampled: 04/18/2012 0830
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0428.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1332			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		21	U	21	350
Benzo[a]pyrene		21	U	21	350
Benzo[b]fluoranthene		28	U	28	350
Benzo[ghi]perylene		17	U	17	350
Benzo[k]fluoranthene		42	U	42	350
Bis(2-chloroethoxy)methane		24	U	24	350
Bis(2-chloroethyl)ether		17	U	17	350
bis (2-chloroisopropyl) ether		24	U	24	350
Bis(2-ethylhexyl) phthalate		90	J B	48	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		45	U	45	350
Carbazole		38	U	38	350
4-Chloroaniline		86	U	86	350
4-Chloro-3-methylphenol		69	U	69	350
2-Chloronaphthalene		11	U	11	350
2-Chlorophenol		22	U	22	350
4-Chlorophenyl phenyl ether		22	U	22	350
Chrysene		28	U	28	350
Dibenz(a,h)anthracene		20	U	20	350
Dibenzofuran		21	U	21	350
1,2-Dichlorobenzene		23	U	23	350
1,3-Dichlorobenzene		13	U	13	350
1,4-Dichlorobenzene		14	U	14	350
3,3'-Dichlorobenzidine		95	U	95	690
2,4-Dichlorophenol		11	U	11	350
Diethyl phthalate		27	U	27	350
2,4-Dimethylphenol		69	U	69	350
Dimethyl phthalate		24	U	24	350
Di-n-butyl phthalate		30	U	30	350
4,6-Dinitro-2-methylphenol		350	U	350	690
2,4-Dinitrophenol		350	U	350	870
2,4-Dinitrotoluene		69	U	69	350
2,6-Dinitrotoluene		29	U	29	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		38	U	38	350
Fluorene		19	U	19	350
Hexachlorobenzene		30	U	30	350
Hexachlorobutadiene		11	U	11	350
Hexachlorocyclopentadiene		53	U	53	350
Hexachloroethane		22	U	22	350
Indeno[1,2,3-cd]pyrene		23	U	23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T4**

Lab Sample ID: 280-27979-4
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 04/18/2012 0830
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0428.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1332			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	350
3 & 4 Methylphenol		35	U	35	350
Naphthalene		33	U	33	350
2-Nitroaniline		53	U	53	350
3-Nitroaniline		77	U	77	350
4-Nitroaniline		76	U	76	350
Nitrobenzene		23	U	23	350
2-Nitrophenol		11	U	11	350
4-Nitrophenol		100	U	100	690
N-Nitrosodi-n-propylamine		33	U	33	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	690
Phenanthrene		18	U	18	350
Phenol		19	U	19	350
Pyrene		13	U	13	350
1,2,4-Trichlorobenzene		29	U	29	350
2,4,5-Trichlorophenol		11	U	11	350
2,4,6-Trichlorophenol		11	U	11	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	92		50 - 120
2-Fluorophenol	97		53 - 120
Nitrobenzene-d5	89		50 - 120
Phenol-d5	100		52 - 120
Terphenyl-d14	129	*	55 - 120
2,4,6-Tribromophenol	102		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T4**

Lab Sample ID: 280-27979-4
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 04/18/2012 0830
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0428.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1332			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **4**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2600	N J
	Unknown	10.83	230	N J
	Unknown	11.03	600	N J
	Unknown	11.12	210	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T5**

Lab Sample ID: 280-27979-5
Client Matrix: Solid

% Moisture: 5.1

Date Sampled: 04/18/2012 0835
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0429.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	04/26/2012 1351			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		18	U	18	340
Anthracene		18	U	18	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		89	J B	47	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		84	U	84	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		93	U	93	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	850
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T5**

Lab Sample ID: 280-27979-5
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 04/18/2012 0835
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0429.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	04/26/2012 1351			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		75	U	75	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	680
Phenanthrene		18	U	18	340
Phenol		19	U	19	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	80		50 - 120
2-Fluorophenol	88		53 - 120
Nitrobenzene-d5	82		50 - 120
Phenol-d5	88		52 - 120
Terphenyl-d14	130	*	55 - 120
2,4,6-Tribromophenol	99		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T5**

Lab Sample ID: 280-27979-5
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 04/18/2012 0835
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0429.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	04/26/2012 1351			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **1**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2400	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T6**

Lab Sample ID: 280-27979-6
Client Matrix: Solid

% Moisture: 5.1

Date Sampled: 04/18/2012 0840
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0430.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	04/26/2012 1410			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		20	U	20	340
Benzo[a]pyrene		20	U	20	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		23	U	23	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		23	U	23	340
Bis(2-ethylhexyl) phthalate		47	U	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		84	U	84	340
4-Chloro-3-methylphenol		67	U	67	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		22	U	22	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		92	U	92	670
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		67	U	67	340
Dimethyl phthalate		23	U	23	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	670
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		67	U	67	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		22	U	22	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T6**

Lab Sample ID: 280-27979-6
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 04/18/2012 0840
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0430.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	04/26/2012 1410			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		74	U	74	340
4-Nitroaniline		74	U	74	340
Nitrobenzene		22	U	22	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		99	U	99	670
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		21	U	21	340
Pentachlorophenol		340	U	340	670
Phenanthrene		17	U	17	340
Phenol		18	U	18	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	82		50 - 120
2-Fluorophenol	91		53 - 120
Nitrobenzene-d5	82		50 - 120
Phenol-d5	92		52 - 120
Terphenyl-d14	128	*	55 - 120
2,4,6-Tribromophenol	99		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T6**

Lab Sample ID: 280-27979-6
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 04/18/2012 0840
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0430.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	04/26/2012 1410			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2400	N J
	Unknown	11.13	180	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T7**

Lab Sample ID: 280-27979-7
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 04/18/2012 0852
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0431.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 1429			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		27	U	27	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		41	U	41	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		90	J B	47	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		44	U	44	330
Carbazole		37	U	37	330
4-Chloroaniline		83	U	83	330
4-Chloro-3-methylphenol		67	U	67	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		91	U	91	670
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		67	U	67	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	670
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		67	U	67	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		15	U	15	330
Fluoranthene		37	U	37	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		51	U	51	330
Hexachloroethane		22	U	22	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T7**

Lab Sample ID: 280-27979-7
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 04/18/2012 0852
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0431.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 1429			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		51	U	51	330
3-Nitroaniline		74	U	74	330
4-Nitroaniline		74	U	74	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		98	U	98	670
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	670
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	86		50 - 120
2-Fluorophenol	92		53 - 120
Nitrobenzene-d5	82		50 - 120
Phenol-d5	94		52 - 120
Terphenyl-d14	125	*	55 - 120
2,4,6-Tribromophenol	105		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T7**

Lab Sample ID: 280-27979-7
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 04/18/2012 0852
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0431.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 1429			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2200	N J
	Unknown	11.08	380	N J
	Unknown	11.39	140	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T8**

Lab Sample ID: 280-27979-8
Client Matrix: Solid

% Moisture: 4.2

Date Sampled: 04/18/2012 0854
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0432.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1448			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		18	U	18	340
Anthracene		18	U	18	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		17	U	17	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		94	J B	48	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		45	U	45	340
Carbazole		37	U	37	340
4-Chloroaniline		85	U	85	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		93	U	93	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		350	U	350	860
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T8**

Lab Sample ID: 280-27979-8
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 04/18/2012 0854
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0432.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1448			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U	52	340
3-Nitroaniline		76	U	76	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	680
Phenanthrene		18	U	18	340
Phenol		19	U	19	340
Pyrene		13	U	13	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	75		50 - 120
2-Fluorophenol	82		53 - 120
Nitrobenzene-d5	75		50 - 120
Phenol-d5	82		52 - 120
Terphenyl-d14	117		55 - 120
2,4,6-Tribromophenol	93		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T8**

Lab Sample ID: 280-27979-8
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 04/18/2012 0854
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0432.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1448			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2100	N J
	Unknown	11.10	150	N J
	Unknown	11.13	160	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T9**

Lab Sample ID: 280-27979-9
Client Matrix: Solid

% Moisture: 3.1

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0433.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	04/26/2012 1507			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		39	U	39	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		16	U	16	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		91	J B	45	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		42	U	42	330
Carbazole		35	U	35	330
4-Chloroaniline		81	U	81	330
4-Chloro-3-methylphenol		65	U	65	330
2-Chloronaphthalene		9.9	U	9.9	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		13	U	13	330
3,3'-Dichlorobenzidine		89	U	89	650
2,4-Dichlorophenol		9.9	U	9.9	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		65	U	65	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	650
2,4-Dinitrophenol		330	U	330	810
2,4-Dinitrotoluene		65	U	65	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		35	U	35	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		9.9	U	9.9	330
Hexachlorocyclopentadiene		49	U	49	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T9**

Lab Sample ID: 280-27979-9
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0433.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	04/26/2012 1507			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		49	U	49	330
3-Nitroaniline		72	U	72	330
4-Nitroaniline		71	U	71	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		9.9	U	9.9	330
4-Nitrophenol		96	U	96	650
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	650
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		9.9	U	9.9	330
2,4,6-Trichlorophenol		9.9	U	9.9	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	80		50 - 120
2-Fluorophenol	84		53 - 120
Nitrobenzene-d5	78		50 - 120
Phenol-d5	88		52 - 120
Terphenyl-d14	130	*	55 - 120
2,4,6-Tribromophenol	100		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T9**

Lab Sample ID: 280-27979-9
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0433.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	04/26/2012 1507			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **1**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	1900	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V0**

Lab Sample ID: 280-27979-10
Client Matrix: Solid

% Moisture: 3.4

Date Sampled: 04/18/2012 0805
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0434.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 1526			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		20	U	20	340
Benzo[a]pyrene		20	U	20	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		23	U	23	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		23	U	23	340
Bis(2-ethylhexyl) phthalate		47	U	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		84	U	84	340
4-Chloro-3-methylphenol		67	U	67	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		22	U	22	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		92	U	92	670
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		67	U	67	340
Dimethyl phthalate		23	U	23	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	670
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		67	U	67	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		22	U	22	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V0**

Lab Sample ID: 280-27979-10
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 04/18/2012 0805
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0434.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 1526			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		75	U	75	340
4-Nitroaniline		74	U	74	340
Nitrobenzene		22	U	22	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		99	U	99	670
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		21	U	21	340
Pentachlorophenol		340	U	340	670
Phenanthrene		17	U	17	340
Phenol		18	U	18	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	84		50 - 120
2-Fluorophenol	89		53 - 120
Nitrobenzene-d5	81		50 - 120
Phenol-d5	91		52 - 120
Terphenyl-d14	121	*	55 - 120
2,4,6-Tribromophenol	99		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V0**

Lab Sample ID: 280-27979-10
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 04/18/2012 0805
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0434.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 1526			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2100	N J
	Unknown	10.82	250	N J
	Unknown	10.99	610	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V1**

Lab Sample ID: 280-27979-11
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 04/18/2012 0810
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0424.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 1215			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		20	U	20	340
Benzo[a]pyrene		67	J	20	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		52	J	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		23	U	23	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		23	U	23	340
Bis(2-ethylhexyl) phthalate		47	U	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		83	U	83	340
4-Chloro-3-methylphenol		67	U	67	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		46	J	27	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		22	U	22	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		91	U	91	670
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		26	U	26	340
2,4-Dimethylphenol		67	U	67	340
Dimethyl phthalate		23	U	23	340
Di-n-butyl phthalate		29	U	29	340
4,6-Dinitro-2-methylphenol		340	U	340	670
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		67	U	67	340
2,6-Dinitrotoluene		28	U	28	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		29	U	29	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		22	U	22	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V1**

Lab Sample ID: 280-27979-11
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 04/18/2012 0810
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0424.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 1215			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		31	U	31	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		74	U	74	340
4-Nitroaniline		74	U	74	340
Nitrobenzene		22	U	22	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		98	U	98	670
N-Nitrosodi-n-propylamine		31	U	31	340
N-Nitrosodiphenylamine		21	U	21	340
Pentachlorophenol		340	U	340	670
Phenanthrene		17	U	17	340
Phenol		18	U	18	340
Pyrene		87	J	12	340
1,2,4-Trichlorobenzene		28	U	28	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	86		50 - 120
2-Fluorophenol	83		53 - 120
Nitrobenzene-d5	75		50 - 120
Phenol-d5	88		52 - 120
Terphenyl-d14	120		55 - 120
2,4,6-Tribromophenol	107		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V1**

Lab Sample ID: 280-27979-11
Client Matrix: Solid % Moisture: 2.8

Date Sampled: 04/18/2012 0810
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0424.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 1215			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **7**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.34	140	N J
	Unknown	2.68	2000	N J
1795-21-7	Cyclopentane, decyl-	8.99	140	N J
3442-78-2	Pyrene, 2-methyl-	9.90	170	N J
	Unknown	11.18	160	N J
	Unknown	11.36	160	N J
	Unknown	11.92	230	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V2**

Lab Sample ID: 280-27979-12
Client Matrix: Solid

% Moisture: 4.4

Date Sampled: 04/18/2012 0904
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0435.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	04/26/2012 1545			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		93	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V2**

Lab Sample ID: 280-27979-12
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/18/2012 0904
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0435.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	04/26/2012 1545			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		73	U	73	330
4-Nitroaniline		72	U	72	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		97	U	97	660
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	660
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	88		50 - 120
2-Fluorophenol	91		53 - 120
Nitrobenzene-d5	82		50 - 120
Phenol-d5	92		52 - 120
Terphenyl-d14	133	*	55 - 120
2,4,6-Tribromophenol	105		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V2**

Lab Sample ID: 280-27979-12
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/18/2012 0904
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0435.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	04/26/2012 1545			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **1**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2000	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V3**

Lab Sample ID: 280-27979-13
Client Matrix: Solid
% Moisture: 5.5

Date Sampled: 04/18/2012 0715
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0436.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	04/26/2012 1604			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		99	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V3**

Lab Sample ID: 280-27979-13
Client Matrix: Solid
% Moisture: 5.5

Date Sampled: 04/18/2012 0715
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0436.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	04/26/2012 1604			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		73	U	73	330
4-Nitroaniline		72	U	72	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		97	U	97	660
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	660
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	85		50 - 120
2-Fluorophenol	91		53 - 120
Nitrobenzene-d5	85		50 - 120
Phenol-d5	92		52 - 120
Terphenyl-d14	120		55 - 120
2,4,6-Tribromophenol	99		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V3**

Lab Sample ID: 280-27979-13
Client Matrix: Solid
% Moisture: 5.5

Date Sampled: 04/18/2012 0715
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0436.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	04/26/2012 1604			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2100	N J
	Unknown	10.77	660	N J
	Unknown	10.96	1300	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V4**

Lab Sample ID: 280-27979-14FD
Client Matrix: Solid

% Moisture: 3.6

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0437.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	04/26/2012 1623			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		20	U	20	340
Benzo[a]pyrene		20	U	20	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		23	U	23	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		23	U	23	340
Bis(2-ethylhexyl) phthalate		140	J B	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		83	U	83	340
4-Chloro-3-methylphenol		67	U	67	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		27	U	27	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		22	U	22	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		92	U	92	670
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		26	U	26	340
2,4-Dimethylphenol		67	U	67	340
Dimethyl phthalate		23	U	23	340
Di-n-butyl phthalate		29	U	29	340
4,6-Dinitro-2-methylphenol		340	U	340	670
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		67	U	67	340
2,6-Dinitrotoluene		28	U	28	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		29	U	29	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		22	U	22	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V4**

Lab Sample ID: 280-27979-14FD
Client Matrix: Solid % Moisture: 3.6

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0437.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	04/26/2012 1623			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		74	U	74	340
4-Nitroaniline		74	U	74	340
Nitrobenzene		22	U	22	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		99	U	99	670
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		21	U	21	340
Pentachlorophenol		340	U	340	670
Phenanthrene		17	U	17	340
Phenol		18	U	18	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		28	U	28	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	85		50 - 120
2-Fluorophenol	92		53 - 120
Nitrobenzene-d5	83		50 - 120
Phenol-d5	93		52 - 120
Terphenyl-d14	123	*	55 - 120
2,4,6-Tribromophenol	96		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V4**

Lab Sample ID: 280-27979-14FD
Client Matrix: Solid % Moisture: 3.6

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0437.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	04/26/2012 1623			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2200	N J
57289-07-3	Isoheptadecanol	10.22	170	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V6**

Lab Sample ID: 280-27979-16
Client Matrix: Solid

% Moisture: 2.4

Date Sampled: 04/18/2012 0902
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0438.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1642			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		20	U	20	340
Benzo[a]pyrene		20	U	20	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		23	U	23	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		23	U	23	340
Bis(2-ethylhexyl) phthalate		100	J B	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		83	U	83	340
4-Chloro-3-methylphenol		67	U	67	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		27	U	27	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		22	U	22	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		92	U	92	670
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		26	U	26	340
2,4-Dimethylphenol		67	U	67	340
Dimethyl phthalate		23	U	23	340
Di-n-butyl phthalate		240	J	30	340
4,6-Dinitro-2-methylphenol		340	U	340	670
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		67	U	67	340
2,6-Dinitrotoluene		28	U	28	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		22	U	22	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V6**

Lab Sample ID: 280-27979-16
Client Matrix: Solid
% Moisture: 2.4

Date Sampled: 04/18/2012 0902
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0438.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1642			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		74	U	74	340
4-Nitroaniline		74	U	74	340
Nitrobenzene		22	U	22	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		99	U	99	670
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		21	U	21	340
Pentachlorophenol		340	U	340	670
Phenanthrene		17	U	17	340
Phenol		18	U	18	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		28	U	28	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	87		50 - 120
2-Fluorophenol	89		53 - 120
Nitrobenzene-d5	79		50 - 120
Phenol-d5	91		52 - 120
Terphenyl-d14	120		55 - 120
2,4,6-Tribromophenol	106		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V6**

Lab Sample ID: 280-27979-16
Client Matrix: Solid
% Moisture: 2.4

Date Sampled: 04/18/2012 0902
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0438.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1642			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **5**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2200	N J
	Unknown	10.93	320	N J
629-92-5	Nonadecane	11.34	210	N J
112-95-8	Eicosane	11.89	230	N J
	Unknown	13.07	190	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V7**

Lab Sample ID: 280-27979-17
Client Matrix: Solid
% Moisture: 2.2

Date Sampled: 04/18/2012 0740
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0439.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	04/26/2012 1701			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		72	J	20	330
Benzo[a]pyrene		120	J	20	330
Benzo[b]fluoranthene		210	J K	26	330
Benzo[ghi]perylene		63	J	16	330
Benzo[k]fluoranthene		40	U K	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		16	U	16	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		97	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		81	U	81	330
4-Chloro-3-methylphenol		65	U	65	330
2-Chloronaphthalene		9.9	U	9.9	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		90	J	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		13	U	13	330
3,3'-Dichlorobenzidine		89	U	89	650
2,4-Dichlorophenol		9.9	U	9.9	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		65	U	65	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	650
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		65	U	65	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		100	J	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		9.9	U	9.9	330
Hexachlorocyclopentadiene		49	U	49	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		96	J	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V7**

Lab Sample ID: 280-27979-17
Client Matrix: Solid
% Moisture: 2.2

Date Sampled: 04/18/2012 0740
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0439.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	04/26/2012 1701			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		49	U	49	330
3-Nitroaniline		72	U	72	330
4-Nitroaniline		72	U	72	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		9.9	U	9.9	330
4-Nitrophenol		96	U	96	650
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	650
Phenanthrene		30	J	17	330
Phenol		18	U	18	330
Pyrene		96	J	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		9.9	U	9.9	330
2,4,6-Trichlorophenol		9.9	U	9.9	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	89		50 - 120
2-Fluorophenol	95		53 - 120
Nitrobenzene-d5	84		50 - 120
Phenol-d5	98		52 - 120
Terphenyl-d14	126	*	55 - 120
2,4,6-Tribromophenol	106		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V7**

Lab Sample ID: 280-27979-17
Client Matrix: Solid
% Moisture: 2.2

Date Sampled: 04/18/2012 0740
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0439.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	04/26/2012 1701			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **5**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2300	N J
544-76-3	Hexadecane	10.77	210	N J
	Unknown	10.94	510	N J
629-92-5	Nonadecane	11.32	150	N J
	Unknown	11.87	180	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V8**

Lab Sample ID: 280-27979-18
Client Matrix: Solid

% Moisture: 2.0

Date Sampled: 04/18/2012 0745
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0440.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1720			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		66	J	20	330
Benzo[b]fluoranthene		100	J	27	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		41	U	41	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		100	J B	47	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		44	U	44	330
Carbazole		36	U	36	330
4-Chloroaniline		83	U	83	330
4-Chloro-3-methylphenol		67	U	67	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		91	U	91	670
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		67	U	67	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	670
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		67	U	67	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		15	U	15	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		51	U	51	330
Hexachloroethane		22	U	22	330
Indeno[1,2,3-cd]pyrene		56	J	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V8**

Lab Sample ID: 280-27979-18
Client Matrix: Solid
% Moisture: 2.0

Date Sampled: 04/18/2012 0745
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0440.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1720			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		51	U	51	330
3-Nitroaniline		74	U	74	330
4-Nitroaniline		73	U	73	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		98	U	98	670
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	670
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	90		50 - 120
2-Fluorophenol	92		53 - 120
Nitrobenzene-d5	84		50 - 120
Phenol-d5	95		52 - 120
Terphenyl-d14	125	*	55 - 120
2,4,6-Tribromophenol	104		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V8**

Lab Sample ID: 280-27979-18
Client Matrix: Solid
% Moisture: 2.0

Date Sampled: 04/18/2012 0745
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0440.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1720			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **6**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2100	N J
	Unknown	10.71	280	N J
	Unknown	10.91	700	N J
	Unknown	11.31	190	N J
112-95-8	Eicosane	11.86	300	N J
	Unknown	13.05	180	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V9**

Lab Sample ID: 280-27979-19
Client Matrix: Solid
% Moisture: 2.2

Date Sampled: 04/18/2012 0750
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0441.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1739			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		20	U	20	340
Benzo[a]pyrene		20	U	20	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		23	U	23	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		23	U	23	340
Bis(2-ethylhexyl) phthalate		120	J B	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		83	U	83	340
4-Chloro-3-methylphenol		67	U	67	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		27	U	27	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		22	U	22	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		91	U	91	670
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		26	U	26	340
2,4-Dimethylphenol		67	U	67	340
Dimethyl phthalate		23	U	23	340
Di-n-butyl phthalate		29	U	29	340
4,6-Dinitro-2-methylphenol		340	U	340	670
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		67	U	67	340
2,6-Dinitrotoluene		28	U	28	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		29	U	29	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		22	U	22	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V9**

Lab Sample ID: 280-27979-19
Client Matrix: Solid
% Moisture: 2.2

Date Sampled: 04/18/2012 0750
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0441.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1739			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		31	U	31	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		74	U	74	340
4-Nitroaniline		74	U	74	340
Nitrobenzene		22	U	22	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		99	U	99	670
N-Nitrosodi-n-propylamine		31	U	31	340
N-Nitrosodiphenylamine		21	U	21	340
Pentachlorophenol		340	U	340	670
Phenanthrene		17	U	17	340
Phenol		18	U	18	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		28	U	28	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	86		50 - 120
2-Fluorophenol	88		53 - 120
Nitrobenzene-d5	83		50 - 120
Phenol-d5	92		52 - 120
Terphenyl-d14	120		55 - 120
2,4,6-Tribromophenol	100		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V9**

Lab Sample ID: 280-27979-19
Client Matrix: Solid
% Moisture: 2.2

Date Sampled: 04/18/2012 0750
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0441.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2012 1739			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2100	N J
	Unknown	10.91	1100	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0W0**

Lab Sample ID: 280-27979-20
Client Matrix: Solid
% Moisture: 1.7

Date Sampled: 04/18/2012 0730
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0442.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 1758			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		90	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	830
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0W0**

Lab Sample ID: 280-27979-20
Client Matrix: Solid
% Moisture: 1.7

Date Sampled: 04/18/2012 0730
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0442.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 1758			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		73	U	73	330
4-Nitroaniline		73	U	73	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		97	U	97	660
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	660
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	87		50 - 120
2-Fluorophenol	91		53 - 120
Nitrobenzene-d5	87		50 - 120
Phenol-d5	92		52 - 120
Terphenyl-d14	121	*	55 - 120
2,4,6-Tribromophenol	101		51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0W0**

Lab Sample ID: 280-27979-20
Client Matrix: Solid
% Moisture: 1.7

Date Sampled: 04/18/2012 0730
Date Received: 04/20/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-116628	Lab File ID:	D0442.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 1758			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.68	2400	N J
	Unknown	11.07	170	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T1**

Lab Sample ID: 280-27979-1
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 04/18/2012 0842
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 1703			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			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	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.7	U	4.7	10
Aroclor 1248		4.7	U	4.7	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	85		59 - 130
Tetrachloro-m-xylene	89		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T2**

Lab Sample ID: 280-27979-2
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 04/18/2012 0844
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 1726			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.1	U	8.1	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.7	U	4.7	10
Aroclor 1248		4.7	U	4.7	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	91		59 - 130
Tetrachloro-m-xylene	99		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T3**

Lab Sample ID: 280-27979-3
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/18/2012 0850
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 1859			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.9
Aroclor 1221		7.9	U	7.9	16
Aroclor 1232		2.0	U	2.0	9.9
Aroclor 1242		4.6	U	4.6	9.9
Aroclor 1248		4.6	U	4.6	9.9
Aroclor 1254		2.6	U	2.6	9.9
Aroclor 1260		2.6	U	2.6	9.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	88		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T4**

Lab Sample ID: 280-27979-4
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 04/18/2012 0830
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 1922			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			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	97		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T5**

Lab Sample ID: 280-27979-5
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 04/18/2012 0835
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 1945			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.4	U	8.4	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.9	U	4.9	10
Aroclor 1248		4.9	U	4.9	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	98		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T6**

Lab Sample ID: 280-27979-6
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 04/18/2012 0840
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 2008			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.3	U	8.3	17
Aroclor 1232		2.1	U	2.1	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	94		59 - 130
Tetrachloro-m-xylene	91		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T7**

Lab Sample ID: 280-27979-7
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 04/18/2012 0852
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	31.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 2032			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.7
Aroclor 1221		7.8	U	7.8	16
Aroclor 1232		1.9	U	1.9	9.7
Aroclor 1242		4.5	U	4.5	9.7
Aroclor 1248		4.5	U	4.5	9.7
Aroclor 1254		2.5	U	2.5	9.7
Aroclor 1260		2.5	U	2.5	9.7

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	84		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T8**

Lab Sample ID: 280-27979-8
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 04/18/2012 0854
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	32.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 2055			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.7
Aroclor 1221		7.8	U	7.8	16
Aroclor 1232		1.9	U	1.9	9.7
Aroclor 1242		4.5	U	4.5	9.7
Aroclor 1248		4.5	U	4.5	9.7
Aroclor 1254		2.5	U	2.5	9.7
Aroclor 1260		2.5	U	2.5	9.7

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	95		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T9**

Lab Sample ID: 280-27979-9
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 2118			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			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		2.1	U	2.1	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	98		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V0**

Lab Sample ID: 280-27979-10
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 04/18/2012 0805
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 2141			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.1	U	8.1	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.7	U	4.7	10
Aroclor 1248		4.7	U	4.7	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	92		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V1**

Lab Sample ID: 280-27979-11
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 04/18/2012 0810
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 2227			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.9
Aroclor 1221		7.9	U	7.9	16
Aroclor 1232		2.0	U	2.0	9.9
Aroclor 1242		4.6	U	4.6	9.9
Aroclor 1248		4.6	U	4.6	9.9
Aroclor 1254		2.6	U	2.6	9.9
Aroclor 1260		2.6	U	2.6	9.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	68		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V2**

Lab Sample ID: 280-27979-12
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/18/2012 0904
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 2251			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.3	U	8.3	17
Aroclor 1232		2.1	U	2.1	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	79		59 - 130
Tetrachloro-m-xylene	96		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V3**

Lab Sample ID: 280-27979-13
Client Matrix: Solid
% Moisture: 5.5

Date Sampled: 04/18/2012 0715
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 2314			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.3	U	8.3	17
Aroclor 1232		2.1	U	2.1	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	93		59 - 130
Tetrachloro-m-xylene	98		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V4**

Lab Sample ID: 280-27979-14FD
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	31.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/24/2012 2337			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.8
Aroclor 1221		7.9	U	7.9	16
Aroclor 1232		2.0	U	2.0	9.8
Aroclor 1242		4.6	U	4.6	9.8
Aroclor 1248		4.6	U	4.6	9.8
Aroclor 1254		2.6	U	2.6	9.8
Aroclor 1260		2.6	U	2.6	9.8

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	98		59 - 130
Tetrachloro-m-xylene	100		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V6**

Lab Sample ID: 280-27979-16
Client Matrix: Solid
% Moisture: 2.4

Date Sampled: 04/18/2012 0902
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/25/2012 0000			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.8
Aroclor 1221		7.8	U	7.8	16
Aroclor 1232		2.0	U	2.0	9.8
Aroclor 1242		4.6	U	4.6	9.8
Aroclor 1248		4.6	U	4.6	9.8
Aroclor 1254		2.5	U	2.5	9.8
Aroclor 1260		2.5	U	2.5	9.8

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	74		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V7**

Lab Sample ID: 280-27979-17
Client Matrix: Solid
% Moisture: 2.2

Date Sampled: 04/18/2012 0740
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	32.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/25/2012 0023			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			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		2.5	U	2.5	9.5
Aroclor 1260		2.5	U	2.5	9.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	74		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V8**

Lab Sample ID: 280-27979-18
Client Matrix: Solid
% Moisture: 2.0

Date Sampled: 04/18/2012 0745
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/25/2012 0046			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	9.9
Aroclor 1221		8.0	U	8.0	16
Aroclor 1232		2.0	U	2.0	9.9
Aroclor 1242		4.6	U	4.6	9.9
Aroclor 1248		4.6	U	4.6	9.9
Aroclor 1254		2.6	U	2.6	9.9
Aroclor 1260		2.6	U	2.6	9.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	79		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V9**

Lab Sample ID: 280-27979-19
Client Matrix: Solid
% Moisture: 2.2

Date Sampled: 04/18/2012 0750
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/25/2012 0109			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.6
Aroclor 1221		7.7	U	7.7	16
Aroclor 1232		1.9	U	1.9	9.6
Aroclor 1242		4.5	U	4.5	9.6
Aroclor 1248		4.5	U	4.5	9.6
Aroclor 1254		2.5	U	2.5	9.6
Aroclor 1260		2.5	U	2.5	9.6

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	72		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0W0**

Lab Sample ID: 280-27979-20
Client Matrix: Solid
% Moisture: 1.7

Date Sampled: 04/18/2012 0730
Date Received: 04/20/2012 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-116480	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/25/2012 0132			Injection Volume:	1 uL
Prep Date:	04/22/2012 1415			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.7
Aroclor 1221		7.8	U	7.8	16
Aroclor 1232		1.9	U	1.9	9.7
Aroclor 1242		4.5	U	4.5	9.7
Aroclor 1248		4.5	U	4.5	9.7
Aroclor 1254		2.5	U	2.5	9.7
Aroclor 1260		2.5	U	2.5	9.7

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	84		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T1**

Lab Sample ID: 280-27979-1
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 04/18/2012 0842
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	010F1001.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	04/30/2012 1728			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1300	J	1000	4100
C10-C28		800	J B	700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	69		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T2**

Lab Sample ID: 280-27979-2
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 04/18/2012 0844
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	011F1101.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	04/30/2012 1753			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1300	J	1000	4100
C10-C28		1100	J B	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	77		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T3**

Lab Sample ID: 280-27979-3
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/18/2012 0850
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	012F1201.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/30/2012 1817			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2100	J	1000	4100
C10-C28		1500	J B	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	83		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T4**

Lab Sample ID: 280-27979-4
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 04/18/2012 0830
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	013F1301.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	04/30/2012 1841			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2400	J	1000	4100
C10-C28		1600	J B	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	79		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T5**

Lab Sample ID: 280-27979-5
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 04/18/2012 0835
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	014F1401.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	04/30/2012 1906			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1700	J	1000	4200
C10-C28		1600	J B	710	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	82		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T6**

Lab Sample ID: 280-27979-6
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 04/18/2012 0840
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	015F1501.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/30/2012 1930			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		4500		1000	4200
C10-C28		3700	J B	710	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	79		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T7**

Lab Sample ID: 280-27979-7
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 04/18/2012 0852
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	016F1601.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	04/30/2012 1955			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		8700		1000	4000
C10-C28		5400	B	680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	87		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T8**

Lab Sample ID: 280-27979-8
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 04/18/2012 0854
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	017F1701.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	04/30/2012 2019			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1100	J	1000	4100
C10-C28		1000	J B	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	74		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T9**

Lab Sample ID: 280-27979-9
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	018F1801.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	04/30/2012 2044			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2300	J	1000	4100
C10-C28		1300	J B	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	76		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V0**

Lab Sample ID: 280-27979-10
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 04/18/2012 0805
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	023F2301.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/30/2012 2246			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2700	J	1000	4100
C10-C28		2000	J B	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	76		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V1**

Lab Sample ID: 280-27979-11
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 04/18/2012 0810
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	024F2401.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	04/30/2012 2310			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		71000		1000	4100
C10-C28		50000	B	700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	83		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V2**

Lab Sample ID: 280-27979-12
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/18/2012 0904
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	025F2501.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	04/30/2012 2334			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		9000		1000	4100
C10-C28		5500	B	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	95		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V3**

Lab Sample ID: 280-27979-13
Client Matrix: Solid
% Moisture: 5.5

Date Sampled: 04/18/2012 0715
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	026F2601.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	04/30/2012 2358			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2600	J	1000	4200
C10-C28		2100	J B	710	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	95		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V4**

Lab Sample ID: 280-27979-14FD
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	027F2701.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	05/01/2012 0022			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1700	J	1000	4100
C10-C28		1200	J B	700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	84		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V6**

Lab Sample ID: 280-27979-16
Client Matrix: Solid
% Moisture: 2.4

Date Sampled: 04/18/2012 0902
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	028F2801.D
Dilution:	1.0			Initial Weight/Volume:	32.8 g
Analysis Date:	05/01/2012 0047			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		39000		930	3700
C10-C28		20000	B	640	3700

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	88		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V7**

Lab Sample ID: 280-27979-17
Client Matrix: Solid
% Moisture: 2.2

Date Sampled: 04/18/2012 0740
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	029F2901.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	05/01/2012 0111			Final Weight/Volume:	5000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		250000		5000	20000
C10-C28		100000	B	3400	20000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	93		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V8**

Lab Sample ID: 280-27979-18
Client Matrix: Solid
% Moisture: 2.0

Date Sampled: 04/18/2012 0745
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	030F3001.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	05/01/2012 0135			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		7400		970	3900
C10-C28		2300	J B	660	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	82		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V9**

Lab Sample ID: 280-27979-19
Client Matrix: Solid
% Moisture: 2.2

Date Sampled: 04/18/2012 0750
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	031F3101.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	05/01/2012 0159			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1900	J	960	3900
C10-C28		1000	J B	660	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	82		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0W0**

Lab Sample ID: 280-27979-20
Client Matrix: Solid
% Moisture: 1.7

Date Sampled: 04/18/2012 0730
Date Received: 04/20/2012 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-116631	Lab File ID:	032F3201.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	05/01/2012 0223			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		26000	N	1000	4100
C10-C28		10000	B	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	95		49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T1**

Lab Sample ID: 280-27979-1
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 04/18/2012 0842
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	04/25/2012 0034			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7180	X	1.6	5.0
Antimony		0.38	U	0.38	0.61
Arsenic		14.6		0.67	1.0
Barium		66.0	X	0.077	0.50
Beryllium		0.64		0.033	0.20
Boron		1.5	B	0.99	2.0
Cadmium		0.095	B	0.041	0.20
Calcium		11100	X	14.2	50.5
Chromium		7.2	X	0.059	0.20
Cobalt		7.9	X	0.10	1.0
Copper		33.6		0.22	1.0
Iron		24200	X	3.8	5.0
Lead		5.3		0.27	0.50
Magnesium		4410	X	3.7	20.2
Manganese		301	X	0.10	1.0
Molybdenum		0.31	B	0.26	2.0
Nickel		11.2	X	0.12	4.0
Potassium		1180		41.4	303
Selenium		1.3		0.87	1.0
Silicon		297	N X	5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		288		59.6	121
Vanadium		50.9	X	0.095	2.0
Zinc		54.8	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	04/24/2012 1830			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.073	M	0.0054	0.016

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T2**

Lab Sample ID: 280-27979-2
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 04/18/2012 0844
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	04/25/2012 0037			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9370	X	1.6	5.1
Antimony		0.52	B	0.39	0.61
Arsenic		9.4		0.68	1.0
Barium		73.7	X	0.078	0.51
Beryllium		0.68		0.034	0.20
Boron		1.9	B	1.0	2.0
Cadmium		0.077	B	0.042	0.20
Calcium		4670	X	14.4	51.1
Chromium		11.5	X	0.059	0.20
Cobalt		8.0	X	0.10	1.0
Copper		25.3		0.22	1.0
Iron		24100	X	3.9	5.1
Lead		5.2		0.28	0.51
Magnesium		4390	X	3.8	20.5
Manganese		359	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.0
Nickel		11.0	X	0.13	4.1
Potassium		2070		41.9	307
Selenium		0.90	B	0.88	1.0
Silicon		485	N X	5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		251		60.4	123
Vanadium		55.5	X	0.096	2.0
Zinc		54.3	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.48 g
Analysis Date:	04/24/2012 1837			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0071	U	0.0071	0.022

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T3**

Lab Sample ID: 280-27979-3
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/18/2012 0850
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	04/25/2012 0039			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9410	X	1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		4.4		0.63	0.95
Barium		69.8	X	0.072	0.48
Beryllium		0.68		0.031	0.19
Boron		1.7	B	0.93	1.9
Cadmium		0.050	B	0.039	0.19
Calcium		4210	X	13.4	47.5
Chromium		11.4	X	0.055	0.19
Cobalt		7.8	X	0.095	0.95
Copper		18.2		0.21	0.95
Iron		22700	X	3.6	4.8
Lead		4.8		0.26	0.48
Magnesium		4430	X	3.5	19.0
Manganese		338	X	0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		11.2	X	0.12	3.8
Potassium		1710		39.0	285
Selenium		0.92	B	0.82	0.95
Silicon		402	N X	5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		241		56.1	114
Vanadium		54.4	X	0.089	1.9
Zinc		43.5	X	0.38	0.95

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.55 g
Analysis Date:	04/24/2012 1840			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0063	U	0.0063	0.019

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T4**

Lab Sample ID: 280-27979-4
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 04/18/2012 0830
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	04/25/2012 0041			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9020	X	1.5	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		5.6		0.66	1.0
Barium		72.6	X	0.076	0.50
Beryllium		0.59		0.033	0.20
Boron		1.9	B	0.98	2.0
Cadmium		0.090	B	0.041	0.20
Calcium		3820	X	14.1	49.9
Chromium		11.2	X	0.058	0.20
Cobalt		6.9	X	0.10	1.0
Copper		14.0		0.22	1.0
Iron		20500	X	3.8	5.0
Lead		5.8		0.27	0.50
Magnesium		4130	X	3.7	19.9
Manganese		354	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		10.7	X	0.12	4.0
Potassium		1610		40.9	299
Selenium		0.86	U	0.86	1.0
Silicon		424	N X	5.6	10
Silver		0.16	U	0.16	0.20
Sodium		232		58.8	120
Vanadium		48.8	X	0.094	2.0
Zinc		45.4	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.51 g
Analysis Date:	04/24/2012 1842			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0069	U	0.0069	0.021

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T5**

Lab Sample ID: 280-27979-5
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 04/18/2012 0835
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	04/25/2012 0044			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9680	X	1.6	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		3.7		0.66	1.0
Barium		72.8	X	0.076	0.50
Beryllium		0.58		0.033	0.20
Boron		1.8	B	0.98	2.0
Cadmium		0.064	B	0.041	0.20
Calcium		3620	X	14.2	50.2
Chromium		11.7	X	0.058	0.20
Cobalt		6.6	X	0.10	1.0
Copper		13.4		0.22	1.0
Iron		19900	X	3.8	5.0
Lead		4.3		0.27	0.50
Magnesium		3760	X	3.7	20.1
Manganese		342	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		10.1	X	0.12	4.0
Potassium		1770		41.1	301
Selenium		0.86	U	0.86	1.0
Silicon		413	N X	5.7	10.0
Silver		0.16	U	0.16	0.20
Sodium		257		59.2	120
Vanadium		45.2	X	0.094	2.0
Zinc		41.2	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.48 g
Analysis Date:	04/24/2012 1844			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0073	U	0.0073	0.022

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T6**

Lab Sample ID: 280-27979-6
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 04/18/2012 0840
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	04/25/2012 0046			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9930	X	1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		4.3		0.63	0.96
Barium		75.4	X	0.073	0.48
Beryllium		0.63		0.032	0.19
Boron		2.0		0.94	1.9
Cadmium		0.092	B	0.039	0.19
Calcium		4200	X	13.5	47.9
Chromium		12.1	X	0.056	0.19
Cobalt		7.4	X	0.096	0.96
Copper		15.5		0.21	0.96
Iron		21500	X	3.6	4.8
Lead		5.3		0.26	0.48
Magnesium		4190	X	3.5	19.2
Manganese		358	X	0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		12.1	X	0.12	3.8
Potassium		2030		39.3	287
Selenium		0.88	B	0.82	0.96
Silicon		453	N X	5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		216		56.5	115
Vanadium		95.0	X	0.090	1.9
Zinc		47.0	X	0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.52 g
Analysis Date:	04/24/2012 1851			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0067	U	0.0067	0.021

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T7**

Lab Sample ID: 280-27979-7
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 04/18/2012 0852
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	04/25/2012 0048			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7500	X	1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		20.5		0.63	0.96
Barium		86.6	X	0.073	0.48
Beryllium		0.55		0.032	0.19
Boron		1.5	B	0.94	1.9
Cadmium		0.19		0.039	0.19
Calcium		4510	X	13.5	48.0
Chromium		9.7	X	0.056	0.19
Cobalt		6.7	X	0.096	0.96
Copper		45.2		0.21	0.96
Iron		24700	X	3.7	4.8
Lead		10.7		0.26	0.48
Magnesium		3770	X	3.6	19.2
Manganese		310	X	0.096	0.96
Molybdenum		0.31	B	0.25	1.9
Nickel		9.5	X	0.12	3.8
Potassium		1490		39.4	288
Selenium		0.83	U	0.83	0.96
Silicon		333	N X	5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		232		56.7	115
Vanadium		50.6	X	0.090	1.9
Zinc		77.8	X	0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.54 g
Analysis Date:	04/24/2012 1854			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0097	B	0.0063	0.019

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T8**

Lab Sample ID: 280-27979-8
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 04/18/2012 0854
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	04/25/2012 0100			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9030	X	1.5	4.7
Antimony		0.36	U	0.36	0.57
Arsenic		5.9		0.63	0.95
Barium		76.4	X	0.072	0.47
Beryllium		0.60		0.031	0.19
Boron		1.5	B	0.93	1.9
Cadmium		0.075	B	0.039	0.19
Calcium		3740	X	13.4	47.4
Chromium		10.9	X	0.055	0.19
Cobalt		6.9	X	0.095	0.95
Copper		15.7		0.21	0.95
Iron		21000	X	3.6	4.7
Lead		4.9		0.26	0.47
Magnesium		3940	X	3.5	19.0
Manganese		342	X	0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		10.3	X	0.12	3.8
Potassium		1670		38.9	285
Selenium		0.82	U	0.82	0.95
Silicon		489	N X	5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		254		56.0	114
Vanadium		49.6	X	0.089	1.9
Zinc		44.2	X	0.38	0.95

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.55 g
Analysis Date:	04/24/2012 1856			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0063	U	0.0063	0.019

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0T9**

Lab Sample ID: 280-27979-9
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	04/25/2012 0103			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7850	X	1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		4.3		0.65	0.98
Barium		63.6	X	0.075	0.49
Beryllium		0.63		0.032	0.20
Boron		1.4	B	0.96	2.0
Cadmium		0.053	B	0.040	0.20
Calcium		4800	X	13.9	49.1
Chromium		12.9	X	0.057	0.20
Cobalt		7.3	X	0.098	0.98
Copper		13.3		0.21	0.98
Iron		21500	X	3.7	4.9
Lead		5.0		0.27	0.49
Magnesium		4260	X	3.6	19.7
Manganese		346	X	0.098	0.98
Molybdenum		0.26	U	0.26	2.0
Nickel		10.0	X	0.12	3.9
Potassium		1300		40.3	295
Selenium		0.85	U	0.85	0.98
Silicon		298	N X	5.6	9.8
Silver		0.16	U	0.16	0.20
Sodium		232		58.0	118
Vanadium		52.2	X	0.092	2.0
Zinc		43.1	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.72 g
Analysis Date:	04/24/2012 1858			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0048	U	0.0048	0.015

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V0**

Lab Sample ID: 280-27979-10
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 04/18/2012 0805
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	04/25/2012 0105			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7950	X	1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		6.9		0.67	1.0
Barium		67.3	X	0.077	0.51
Beryllium		0.55		0.033	0.20
Boron		1.5	B	0.99	2.0
Cadmium		0.093	B	0.042	0.20
Calcium		5240	X	14.3	50.7
Chromium		10.9	X	0.059	0.20
Cobalt		6.2	X	0.10	1.0
Copper		19.5		0.22	1.0
Iron		20100	X	3.9	5.1
Lead		7.5		0.27	0.51
Magnesium		3860	X	3.8	20.3
Manganese		292	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		10.1	X	0.12	4.1
Potassium		1490		41.6	304
Selenium		0.87	B	0.87	1.0
Silicon		374	N X	5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		254		59.9	122
Vanadium		46.3	X	0.095	2.0
Zinc		46.4	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.49 g
Analysis Date:	04/24/2012 1901			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0070	U	0.0070	0.022

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V1**

Lab Sample ID: 280-27979-11
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 04/18/2012 0810
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	04/25/2012 0107			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7470	X	1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		4.0		0.59	0.89
Barium		60.2	X	0.068	0.45
Beryllium		0.59		0.030	0.18
Boron		1.1	B	0.88	1.8
Cadmium		0.080	B	0.037	0.18
Calcium		3490	X	12.6	44.7
Chromium		10.2	X	0.052	0.18
Cobalt		10.5	X	0.089	0.89
Copper		15.6		0.19	0.89
Iron		19000	X	3.4	4.5
Lead		5.8		0.24	0.45
Magnesium		3450	X	3.3	17.9
Manganese		280	X	0.089	0.89
Molybdenum		0.23	U	0.23	1.8
Nickel		75.3	X	0.11	3.6
Potassium		1230		36.7	268
Selenium		0.77	U	0.77	0.89
Silicon		329	N X	5.1	8.9
Silver		0.14	U	0.14	0.18
Sodium		228		52.8	107
Vanadium		110	X	0.084	1.8
Zinc		42.0	X	0.36	0.89

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	04/24/2012 1903			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

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

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V2**

Lab Sample ID: 280-27979-12
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/18/2012 0904
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	04/25/2012 0110			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11000	X	1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		7.3		0.67	1.0
Barium		79.4	X	0.077	0.51
Beryllium		0.63		0.034	0.20
Boron		2.0		0.99	2.0
Cadmium		0.090	B	0.042	0.20
Calcium		20500	X	14.3	50.8
Chromium		14.0	X	0.059	0.20
Cobalt		7.8	X	0.10	1.0
Copper		21.6		0.22	1.0
Iron		20200	X	3.9	5.1
Lead		7.0		0.27	0.51
Magnesium		6260	X	3.8	20.3
Manganese		362	X	0.10	1.0
Molybdenum		0.34	B	0.26	2.0
Nickel		14.1	X	0.12	4.1
Potassium		1980		41.6	305
Selenium		0.87	U	0.87	1.0
Silicon		441	N X	5.7	10.2
Silver		0.16	U	0.16	0.20
Sodium		353		59.9	122
Vanadium		42.9	X	0.095	2.0
Zinc		44.2	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	04/24/2012 1905			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0080	B	0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V3**

Lab Sample ID: 280-27979-13
Client Matrix: Solid
% Moisture: 5.5

Date Sampled: 04/18/2012 0715
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	04/25/2012 0112			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7900	X	1.6	5.3
Antimony		0.40	U	0.40	0.63
Arsenic		4.6		0.70	1.1
Barium		63.7	X	0.080	0.53
Beryllium		0.76		0.035	0.21
Boron		1.1	B	1.0	2.1
Cadmium		0.043	U	0.043	0.21
Calcium		7470	X	14.9	52.9
Chromium		8.4	X	0.061	0.21
Cobalt		9.0	X	0.11	1.1
Copper		19.0		0.23	1.1
Iron		25700	X	4.0	5.3
Lead		4.5		0.29	0.53
Magnesium		5070	X	3.9	21.2
Manganese		365	X	0.11	1.1
Molybdenum		0.27	U	0.27	2.1
Nickel		9.8	X	0.13	4.2
Potassium		1380		43.4	317
Selenium		1.2		0.91	1.1
Silicon		366	N X	6.0	10.6
Silver		0.17	U	0.17	0.21
Sodium		288		62.4	127
Vanadium		62.7	X	0.099	2.1
Zinc		48.1	X	0.42	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.59 g
Analysis Date:	04/24/2012 1907			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0059	U	0.0059	0.018

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V4**

Lab Sample ID: 280-27979-14FD
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	04/25/2012 0114			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7630	X	1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		4.6		0.59	0.89
Barium		69.2	X	0.068	0.45
Beryllium		0.60		0.030	0.18
Boron		1.3	B	0.88	1.8
Cadmium		0.045	B	0.037	0.18
Calcium		4650	X	12.6	44.7
Chromium		8.3	X	0.052	0.18
Cobalt		7.9	X	0.089	0.89
Copper		14.3		0.19	0.89
Iron		22200	X	3.4	4.5
Lead		4.5		0.24	0.45
Magnesium		4100	X	3.3	17.9
Manganese		345	X	0.089	0.89
Molybdenum		0.23	U	0.23	1.8
Nickel		9.3	X	0.11	3.6
Potassium		1240		36.7	268
Selenium		0.77	U	0.77	0.89
Silicon		302	N X	5.1	8.9
Silver		0.14	U	0.14	0.18
Sodium		252		52.8	107
Vanadium		52.6	X	0.084	1.8
Zinc		43.8	X	0.36	0.89

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.50 g
Analysis Date:	04/24/2012 1910			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0069	U	0.0069	0.021

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V5**

Lab Sample ID: 280-27979-15EB
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 04/18/2012 0720
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	04/25/2012 0117			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		228	X	1.5	5.0
Antimony		0.38	U	0.38	0.59
Arsenic		0.65	U	0.65	0.99
Barium		2.1	X	0.075	0.50
Beryllium		0.035	B	0.033	0.20
Boron		0.97	U	0.97	2.0
Cadmium		0.041	U	0.041	0.20
Calcium		64.0	X	14.0	49.6
Chromium		0.20	X	0.057	0.20
Cobalt		0.099	B X	0.099	0.99
Copper		0.31	B	0.22	0.99
Iron		376	X	3.8	5.0
Lead		0.34	B	0.27	0.50
Magnesium		29.1	X	3.7	19.8
Manganese		5.5	X	0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		0.23	B X	0.12	4.0
Potassium		49.1	B	40.6	297
Selenium		0.85	U	0.85	0.99
Silicon		142	N X	5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		58.5	U	58.5	119
Vanadium		0.41	B X	0.093	2.0
Zinc		1.4	X C	0.39	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	04/24/2012 1917			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0048	U	0.0048	0.015

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V6**

Lab Sample ID: 280-27979-16
Client Matrix: Solid
% Moisture: 2.4

Date Sampled: 04/18/2012 0902
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	04/25/2012 0119			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9830	X	1.6	5.1
Antimony		0.45	B	0.39	0.61
Arsenic		4.9		0.67	1.0
Barium		68.5	X	0.077	0.51
Beryllium		0.61		0.033	0.20
Boron		2.0		0.99	2.0
Cadmium		0.081	B	0.042	0.20
Calcium		8070	X	14.3	50.7
Chromium		12.6	X	0.059	0.20
Cobalt		7.9	X	0.10	1.0
Copper		18.9		0.22	1.0
Iron		21100	X	3.9	5.1
Lead		7.7		0.27	0.51
Magnesium		5180	X	3.8	20.3
Manganese		347	X	0.10	1.0
Molybdenum		0.27	B	0.26	2.0
Nickel		13.3	X	0.12	4.1
Potassium		1880		41.6	304
Selenium		0.87	U	0.87	1.0
Silicon		433	N X	5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		254		59.8	122
Vanadium		46.7	X	0.095	2.0
Zinc		48.4	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	04/24/2012 1919			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.015	B	0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V7**

Lab Sample ID: 280-27979-17
Client Matrix: Solid
% Moisture: 2.2

Date Sampled: 04/18/2012 0740
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	04/25/2012 0131			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7970	X	1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		4.4		0.63	0.96
Barium		62.0	X	0.073	0.48
Beryllium		0.60		0.032	0.19
Boron		1.4	B	0.94	1.9
Cadmium		0.16	B	0.039	0.19
Calcium		4120	X	13.5	47.8
Chromium		10.5	X	0.055	0.19
Cobalt		7.6	X	0.096	0.96
Copper		19.8		0.21	0.96
Iron		24300	X	3.6	4.8
Lead		21.7		0.26	0.48
Magnesium		4030	X	3.5	19.1
Manganese		325	X	0.096	0.96
Molybdenum		0.29	B	0.25	1.9
Nickel		12.0	X	0.12	3.8
Potassium		1460		39.2	287
Selenium		0.82	U	0.82	0.96
Silicon		330	N X	5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		231		56.4	115
Vanadium		53.3	X	0.090	1.9
Zinc		67.7	X	0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.56 g
Analysis Date:	04/24/2012 1921			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0061	U	0.0061	0.019

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V8**

Lab Sample ID: 280-27979-18
Client Matrix: Solid
% Moisture: 2.0

Date Sampled: 04/18/2012 0745
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	04/25/2012 0133			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6840	X	1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		3.3		0.67	1.0
Barium		60.9	X	0.078	0.51
Beryllium		0.62		0.034	0.20
Boron		1.2	B	1.0	2.0
Cadmium		0.057	B	0.042	0.20
Calcium		4860	X	14.4	51.0
Chromium		7.6	X	0.059	0.20
Cobalt		7.3	X	0.10	1.0
Copper		14.1		0.22	1.0
Iron		22200	X	3.9	5.1
Lead		4.4		0.28	0.51
Magnesium		4040	X	3.8	20.4
Manganese		304	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.0
Nickel		8.5	X	0.13	4.1
Potassium		1350		41.8	306
Selenium		0.88	U	0.88	1.0
Silicon		338	N X	5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		288		60.2	122
Vanadium		56.2	X	0.096	2.0
Zinc		48.0	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.52 g
Analysis Date:	04/24/2012 1924			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

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

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0V9**

Lab Sample ID: 280-27979-19
Client Matrix: Solid
% Moisture: 2.2

Date Sampled: 04/18/2012 0750
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	04/25/2012 0135			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6940	X	1.5	4.9
Antimony		0.37	U	0.37	0.58
Arsenic		6.8		0.64	0.97
Barium		62.3	X	0.074	0.49
Beryllium		0.51		0.032	0.19
Boron		1.5	B	0.95	1.9
Cadmium		0.086	B	0.040	0.19
Calcium		9830	X	13.7	48.7
Chromium		9.0	X	0.056	0.19
Cobalt		6.5	X	0.097	0.97
Copper		28.9		0.21	0.97
Iron		20700	X	3.7	4.9
Lead		4.3		0.26	0.49
Magnesium		4150	X	3.6	19.5
Manganese		264	X	0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		9.6	X	0.12	3.9
Potassium		1430		39.9	292
Selenium		0.94	B	0.84	0.97
Silicon		320	N X	5.5	9.7
Silver		0.18	B	0.16	0.19
Sodium		260		57.4	117
Vanadium		43.6	X	0.092	1.9
Zinc		51.4	X	0.39	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.50 g
Analysis Date:	04/24/2012 1926			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.016	B	0.0068	0.021

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Client Sample ID: **J1P0W0**

Lab Sample ID: 280-27979-20
Client Matrix: Solid
% Moisture: 1.7

Date Sampled: 04/18/2012 0730
Date Received: 04/20/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-116886	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	04/25/2012 0138			Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7180	X	1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		3.6		0.67	1.0
Barium		62.9	X	0.077	0.51
Beryllium		0.54		0.034	0.20
Boron		1.7	B	1.0	2.0
Cadmium		0.098	B	0.042	0.20
Calcium		4700	X	14.3	50.9
Chromium		8.5	X	0.059	0.20
Cobalt		6.8	X	0.10	1.0
Copper		13.9		0.22	1.0
Iron		19400	X	3.9	5.1
Lead		4.7		0.27	0.51
Magnesium		4050	X	3.8	20.3
Manganese		292	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		10.4	X	0.13	4.1
Potassium		1480		41.7	305
Selenium		0.87	U	0.87	1.0
Silicon		419	N X	5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		271		60.0	122
Vanadium		45.2	X	0.096	2.0
Zinc		44.0	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	04/24/2012 1928			Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				

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

General Chemistry

Client Sample ID: **J1P0T1**

Lab Sample ID: 280-27979-1
Client Matrix: Solid

Date Sampled: 04/18/2012 0842
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0T2**

Lab Sample ID: 280-27979-2
Client Matrix: Solid

Date Sampled: 04/18/2012 0844
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0T3**

Lab Sample ID: 280-27979-3
Client Matrix: Solid

Date Sampled: 04/18/2012 0850
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0T4**

Lab Sample ID: 280-27979-4
Client Matrix: Solid

Date Sampled: 04/18/2012 0830
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0T5**

Lab Sample ID: 280-27979-5
Client Matrix: Solid

Date Sampled: 04/18/2012 0835
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0T6**

Lab Sample ID: 280-27979-6
Client Matrix: Solid

Date Sampled: 04/18/2012 0840
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0T7**

Lab Sample ID: 280-27979-7
Client Matrix: Solid

Date Sampled: 04/18/2012 0852
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0T8**

Lab Sample ID: 280-27979-8
Client Matrix: Solid

Date Sampled: 04/18/2012 0854
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0T9**

Lab Sample ID: 280-27979-9
Client Matrix: Solid

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0V0**

Lab Sample ID: 280-27979-10
Client Matrix: Solid

Date Sampled: 04/18/2012 0805
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0V1**

Lab Sample ID: 280-27979-11
Client Matrix: Solid

Date Sampled: 04/18/2012 0810
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0V2**

Lab Sample ID: 280-27979-12
Client Matrix: Solid

Date Sampled: 04/18/2012 0904
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0V3**

Lab Sample ID: 280-27979-13
Client Matrix: Solid

Date Sampled: 04/18/2012 0715
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0V4**

Lab Sample ID: 280-27979-14FD
Client Matrix: Solid

Date Sampled: 04/18/2012 0820
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0V5**

Lab Sample ID: 280-27979-15EB
Client Matrix: Solid

Date Sampled: 04/18/2012 0720
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.12		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0V6**

Lab Sample ID: 280-27979-16
Client Matrix: Solid

Date Sampled: 04/18/2012 0902
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0V7**

Lab Sample ID: 280-27979-17
Client Matrix: Solid

Date Sampled: 04/18/2012 0740
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0V8**

Lab Sample ID: 280-27979-18
Client Matrix: Solid

Date Sampled: 04/18/2012 0745
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0V9**

Lab Sample ID: 280-27979-19
Client Matrix: Solid

Date Sampled: 04/18/2012 0750
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1P0W0**

Lab Sample ID: 280-27979-20
Client Matrix: Solid

Date Sampled: 04/18/2012 0730
Date Received: 04/20/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-116440 Analysis Date: 04/21/2012 0828 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-116628					
LCS 280-116628/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-116628/1-A	Method Blank	T	Solid	3550C	
280-27979-1	J1P0T1	T	Solid	3550C	
280-27979-1MS	Matrix Spike	T	Solid	3550C	
280-27979-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-27979-2	J1P0T2	T	Solid	3550C	
280-27979-3	J1P0T3	T	Solid	3550C	
280-27979-4	J1P0T4	T	Solid	3550C	
280-27979-5	J1P0T5	T	Solid	3550C	
280-27979-6	J1P0T6	T	Solid	3550C	
280-27979-7	J1P0T7	T	Solid	3550C	
280-27979-8	J1P0T8	T	Solid	3550C	
280-27979-9	J1P0T9	T	Solid	3550C	
280-27979-10	J1P0V0	T	Solid	3550C	
280-27979-11	J1P0V1	T	Solid	3550C	
280-27979-12	J1P0V2	T	Solid	3550C	
280-27979-13	J1P0V3	T	Solid	3550C	
280-27979-14FD	J1P0V4	T	Solid	3550C	
280-27979-16	J1P0V6	T	Solid	3550C	
280-27979-17	J1P0V7	T	Solid	3550C	
280-27979-18	J1P0V8	T	Solid	3550C	
280-27979-19	J1P0V9	T	Solid	3550C	
280-27979-20	J1P0W0	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:280-117522					
LCS 280-116628/2-A	Lab Control Sample	T	Solid	8270C	280-116628
MB 280-116628/1-A	Method Blank	T	Solid	8270C	280-116628
280-27979-1	J1P0T1	T	Solid	8270C	280-116628
280-27979-1MS	Matrix Spike	T	Solid	8270C	280-116628
280-27979-1MSD	Matrix Spike Duplicate	T	Solid	8270C	280-116628
280-27979-2	J1P0T2	T	Solid	8270C	280-116628
280-27979-3	J1P0T3	T	Solid	8270C	280-116628
280-27979-4	J1P0T4	T	Solid	8270C	280-116628
280-27979-5	J1P0T5	T	Solid	8270C	280-116628
280-27979-6	J1P0T6	T	Solid	8270C	280-116628
280-27979-7	J1P0T7	T	Solid	8270C	280-116628
280-27979-8	J1P0T8	T	Solid	8270C	280-116628
280-27979-9	J1P0T9	T	Solid	8270C	280-116628
280-27979-10	J1P0V0	T	Solid	8270C	280-116628
280-27979-11	J1P0V1	T	Solid	8270C	280-116628
280-27979-12	J1P0V2	T	Solid	8270C	280-116628
280-27979-13	J1P0V3	T	Solid	8270C	280-116628
280-27979-14FD	J1P0V4	T	Solid	8270C	280-116628
280-27979-16	J1P0V6	T	Solid	8270C	280-116628
280-27979-17	J1P0V7	T	Solid	8270C	280-116628
280-27979-18	J1P0V8	T	Solid	8270C	280-116628
280-27979-19	J1P0V9	T	Solid	8270C	280-116628
280-27979-20	J1P0W0	T	Solid	8270C	280-116628

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-116480					
LCS 280-116480/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-116480/1-A	Method Blank	T	Solid	3550C	
280-27979-1	J1P0T1	T	Solid	3550C	
280-27979-2	J1P0T2	T	Solid	3550C	
280-27979-2MS	Matrix Spike	T	Solid	3550C	
280-27979-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-27979-3	J1P0T3	T	Solid	3550C	
280-27979-4	J1P0T4	T	Solid	3550C	
280-27979-5	J1P0T5	T	Solid	3550C	
280-27979-6	J1P0T6	T	Solid	3550C	
280-27979-7	J1P0T7	T	Solid	3550C	
280-27979-8	J1P0T8	T	Solid	3550C	
280-27979-9	J1P0T9	T	Solid	3550C	
280-27979-10	J1P0V0	T	Solid	3550C	
280-27979-11	J1P0V1	T	Solid	3550C	
280-27979-12	J1P0V2	T	Solid	3550C	
280-27979-13	J1P0V3	T	Solid	3550C	
280-27979-14FD	J1P0V4	T	Solid	3550C	
280-27979-16	J1P0V6	T	Solid	3550C	
280-27979-17	J1P0V7	T	Solid	3550C	
280-27979-18	J1P0V8	T	Solid	3550C	
280-27979-19	J1P0V9	T	Solid	3550C	
280-27979-20	J1P0W0	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-116631					
LCS 280-116631/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-116631/1-A	Method Blank	T	Solid	3550C	
280-27979-1	J1P0T1	T	Solid	3550C	
280-27979-2	J1P0T2	T	Solid	3550C	
280-27979-3	J1P0T3	T	Solid	3550C	
280-27979-4	J1P0T4	T	Solid	3550C	
280-27979-5	J1P0T5	T	Solid	3550C	
280-27979-6	J1P0T6	T	Solid	3550C	
280-27979-7	J1P0T7	T	Solid	3550C	
280-27979-8	J1P0T8	T	Solid	3550C	
280-27979-9	J1P0T9	T	Solid	3550C	
280-27979-9MS	Matrix Spike	T	Solid	3550C	
280-27979-9MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-27979-10	J1P0V0	T	Solid	3550C	
280-27979-11	J1P0V1	T	Solid	3550C	
280-27979-12	J1P0V2	T	Solid	3550C	
280-27979-13	J1P0V3	T	Solid	3550C	
280-27979-14FD	J1P0V4	T	Solid	3550C	
280-27979-16	J1P0V6	T	Solid	3550C	
280-27979-17	J1P0V7	T	Solid	3550C	
280-27979-18	J1P0V8	T	Solid	3550C	
280-27979-19	J1P0V9	T	Solid	3550C	
280-27979-20	J1P0W0	T	Solid	3550C	
280-27979-20MS	Matrix Spike	T	Solid	3550C	
280-27979-20MSD	Matrix Spike Duplicate	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-116930					
LCS 280-116480/2-A	Lab Control Sample	T	Solid	8082	280-116480
MB 280-116480/1-A	Method Blank	T	Solid	8082	280-116480
280-27979-1	J1P0T1	T	Solid	8082	280-116480
280-27979-2	J1P0T2	T	Solid	8082	280-116480
280-27979-2MS	Matrix Spike	T	Solid	8082	280-116480
280-27979-2MSD	Matrix Spike Duplicate	T	Solid	8082	280-116480
280-27979-3	J1P0T3	T	Solid	8082	280-116480
280-27979-4	J1P0T4	T	Solid	8082	280-116480
280-27979-5	J1P0T5	T	Solid	8082	280-116480
280-27979-6	J1P0T6	T	Solid	8082	280-116480
280-27979-7	J1P0T7	T	Solid	8082	280-116480
280-27979-8	J1P0T8	T	Solid	8082	280-116480
280-27979-9	J1P0T9	T	Solid	8082	280-116480
280-27979-10	J1P0V0	T	Solid	8082	280-116480
280-27979-11	J1P0V1	T	Solid	8082	280-116480
280-27979-12	J1P0V2	T	Solid	8082	280-116480
280-27979-13	J1P0V3	T	Solid	8082	280-116480
280-27979-14FD	J1P0V4	T	Solid	8082	280-116480
280-27979-16	J1P0V6	T	Solid	8082	280-116480
280-27979-17	J1P0V7	T	Solid	8082	280-116480
280-27979-18	J1P0V8	T	Solid	8082	280-116480
280-27979-19	J1P0V9	T	Solid	8082	280-116480
280-27979-20	J1P0W0	T	Solid	8082	280-116480

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-117874					
LCS 280-116631/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-116631
MB 280-116631/1-A	Method Blank	T	Solid	NWTPH-Dx	280-116631
280-27979-1	J1P0T1	T	Solid	NWTPH-Dx	280-116631
280-27979-2	J1P0T2	T	Solid	NWTPH-Dx	280-116631
280-27979-3	J1P0T3	T	Solid	NWTPH-Dx	280-116631
280-27979-4	J1P0T4	T	Solid	NWTPH-Dx	280-116631
280-27979-5	J1P0T5	T	Solid	NWTPH-Dx	280-116631
280-27979-6	J1P0T6	T	Solid	NWTPH-Dx	280-116631
280-27979-7	J1P0T7	T	Solid	NWTPH-Dx	280-116631
280-27979-8	J1P0T8	T	Solid	NWTPH-Dx	280-116631
280-27979-9	J1P0T9	T	Solid	NWTPH-Dx	280-116631
280-27979-9MS	Matrix Spike	T	Solid	NWTPH-Dx	280-116631
280-27979-9MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-116631
280-27979-10	J1P0V0	T	Solid	NWTPH-Dx	280-116631
280-27979-11	J1P0V1	T	Solid	NWTPH-Dx	280-116631
280-27979-12	J1P0V2	T	Solid	NWTPH-Dx	280-116631
280-27979-13	J1P0V3	T	Solid	NWTPH-Dx	280-116631
280-27979-14FD	J1P0V4	T	Solid	NWTPH-Dx	280-116631
280-27979-16	J1P0V6	T	Solid	NWTPH-Dx	280-116631
280-27979-17	J1P0V7	T	Solid	NWTPH-Dx	280-116631
280-27979-18	J1P0V8	T	Solid	NWTPH-Dx	280-116631
280-27979-19	J1P0V9	T	Solid	NWTPH-Dx	280-116631
280-27979-20	J1P0W0	T	Solid	NWTPH-Dx	280-116631
280-27979-20MS	Matrix Spike	T	Solid	NWTPH-Dx	280-116631
280-27979-20MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-116631

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-116459					
LCS 280-116459/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-116459/1-A	Method Blank	T	Solid	7471A	
280-27979-1	J1P0T1	T	Solid	7471A	
280-27979-1DU	Duplicate	T	Solid	7471A	
280-27979-1MS	Matrix Spike	T	Solid	7471A	
280-27979-2	J1P0T2	T	Solid	7471A	
280-27979-3	J1P0T3	T	Solid	7471A	
280-27979-4	J1P0T4	T	Solid	7471A	
280-27979-5	J1P0T5	T	Solid	7471A	
280-27979-6	J1P0T6	T	Solid	7471A	
280-27979-7	J1P0T7	T	Solid	7471A	
280-27979-8	J1P0T8	T	Solid	7471A	
280-27979-9	J1P0T9	T	Solid	7471A	
280-27979-10	J1P0V0	T	Solid	7471A	
280-27979-11	J1P0V1	T	Solid	7471A	
280-27979-12	J1P0V2	T	Solid	7471A	
280-27979-13	J1P0V3	T	Solid	7471A	
280-27979-14FD	J1P0V4	T	Solid	7471A	
280-27979-15EB	J1P0V5	T	Solid	7471A	
280-27979-16	J1P0V6	T	Solid	7471A	
280-27979-17	J1P0V7	T	Solid	7471A	
280-27979-18	J1P0V8	T	Solid	7471A	
280-27979-19	J1P0V9	T	Solid	7471A	
280-27979-20	J1P0W0	T	Solid	7471A	

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-116496					
LCS 280-116496/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-116496/1-A	Method Blank	T	Solid	3050B	
280-27979-1	J1P0T1	T	Solid	3050B	
280-27979-2	J1P0T2	T	Solid	3050B	
280-27979-3	J1P0T3	T	Solid	3050B	
280-27979-4	J1P0T4	T	Solid	3050B	
280-27979-5	J1P0T5	T	Solid	3050B	
280-27979-6	J1P0T6	T	Solid	3050B	
280-27979-7	J1P0T7	T	Solid	3050B	
280-27979-8	J1P0T8	T	Solid	3050B	
280-27979-9	J1P0T9	T	Solid	3050B	
280-27979-10	J1P0V0	T	Solid	3050B	
280-27979-11	J1P0V1	T	Solid	3050B	
280-27979-12	J1P0V2	T	Solid	3050B	
280-27979-13	J1P0V3	T	Solid	3050B	
280-27979-14FD	J1P0V4	T	Solid	3050B	
280-27979-15EB	J1P0V5	T	Solid	3050B	
280-27979-16	J1P0V6	T	Solid	3050B	
280-27979-17	J1P0V7	T	Solid	3050B	
280-27979-18	J1P0V8	T	Solid	3050B	
280-27979-19	J1P0V9	T	Solid	3050B	
280-27979-20	J1P0W0	T	Solid	3050B	
280-27979-20DU	Duplicate	T	Solid	3050B	
280-27979-20MS	Matrix Spike	T	Solid	3050B	

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-116886					
LCS 280-116496/2-A	Lab Control Sample	T	Solid	6010B	280-116496
MB 280-116496/1-A	Method Blank	T	Solid	6010B	280-116496
280-27979-1	J1P0T1	T	Solid	6010B	280-116496
280-27979-2	J1P0T2	T	Solid	6010B	280-116496
280-27979-3	J1P0T3	T	Solid	6010B	280-116496
280-27979-4	J1P0T4	T	Solid	6010B	280-116496
280-27979-5	J1P0T5	T	Solid	6010B	280-116496
280-27979-6	J1P0T6	T	Solid	6010B	280-116496
280-27979-7	J1P0T7	T	Solid	6010B	280-116496
280-27979-8	J1P0T8	T	Solid	6010B	280-116496
280-27979-9	J1P0T9	T	Solid	6010B	280-116496
280-27979-10	J1P0V0	T	Solid	6010B	280-116496
280-27979-11	J1P0V1	T	Solid	6010B	280-116496
280-27979-12	J1P0V2	T	Solid	6010B	280-116496
280-27979-13	J1P0V3	T	Solid	6010B	280-116496
280-27979-14FD	J1P0V4	T	Solid	6010B	280-116496
280-27979-15EB	J1P0V5	T	Solid	6010B	280-116496
280-27979-16	J1P0V6	T	Solid	6010B	280-116496
280-27979-17	J1P0V7	T	Solid	6010B	280-116496
280-27979-18	J1P0V8	T	Solid	6010B	280-116496
280-27979-19	J1P0V9	T	Solid	6010B	280-116496
280-27979-20	J1P0W0	T	Solid	6010B	280-116496
280-27979-20DU	Duplicate	T	Solid	6010B	280-116496
280-27979-20MS	Matrix Spike	T	Solid	6010B	280-116496

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-116924					
LCS 280-116459/2-A	Lab Control Sample	T	Solid	7471A	280-116459
MB 280-116459/1-A	Method Blank	T	Solid	7471A	280-116459
280-27979-1	J1P0T1	T	Solid	7471A	280-116459
280-27979-1DU	Duplicate	T	Solid	7471A	280-116459
280-27979-1MS	Matrix Spike	T	Solid	7471A	280-116459
280-27979-2	J1P0T2	T	Solid	7471A	280-116459
280-27979-3	J1P0T3	T	Solid	7471A	280-116459
280-27979-4	J1P0T4	T	Solid	7471A	280-116459
280-27979-5	J1P0T5	T	Solid	7471A	280-116459
280-27979-6	J1P0T6	T	Solid	7471A	280-116459
280-27979-7	J1P0T7	T	Solid	7471A	280-116459
280-27979-8	J1P0T8	T	Solid	7471A	280-116459
280-27979-9	J1P0T9	T	Solid	7471A	280-116459
280-27979-10	J1P0V0	T	Solid	7471A	280-116459
280-27979-11	J1P0V1	T	Solid	7471A	280-116459
280-27979-12	J1P0V2	T	Solid	7471A	280-116459
280-27979-13	J1P0V3	T	Solid	7471A	280-116459
280-27979-14FD	J1P0V4	T	Solid	7471A	280-116459
280-27979-15EB	J1P0V5	T	Solid	7471A	280-116459
280-27979-16	J1P0V6	T	Solid	7471A	280-116459
280-27979-17	J1P0V7	T	Solid	7471A	280-116459
280-27979-18	J1P0V8	T	Solid	7471A	280-116459
280-27979-19	J1P0V9	T	Solid	7471A	280-116459
280-27979-20	J1P0W0	T	Solid	7471A	280-116459

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-116440					
280-27979-1	J1P0T1	T	Solid	D-2216	
280-27979-1DU	Duplicate	T	Solid	D-2216	
280-27979-2	J1P0T2	T	Solid	D-2216	
280-27979-3	J1P0T3	T	Solid	D-2216	
280-27979-4	J1P0T4	T	Solid	D-2216	
280-27979-5	J1P0T5	T	Solid	D-2216	
280-27979-6	J1P0T6	T	Solid	D-2216	
280-27979-7	J1P0T7	T	Solid	D-2216	
280-27979-8	J1P0T8	T	Solid	D-2216	
280-27979-9	J1P0T9	T	Solid	D-2216	
280-27979-10	J1P0V0	T	Solid	D-2216	
280-27979-10DU	Duplicate	T	Solid	D-2216	
280-27979-11	J1P0V1	T	Solid	D-2216	
280-27979-12	J1P0V2	T	Solid	D-2216	
280-27979-13	J1P0V3	T	Solid	D-2216	
280-27979-14FD	J1P0V4	T	Solid	D-2216	
280-27979-15EB	J1P0V5	T	Solid	D-2216	
280-27979-16	J1P0V6	T	Solid	D-2216	
280-27979-17	J1P0V7	T	Solid	D-2216	
280-27979-18	J1P0V8	T	Solid	D-2216	
280-27979-18DU	Duplicate	T	Solid	D-2216	
280-27979-19	J1P0V9	T	Solid	D-2216	
280-27979-20	J1P0W0	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Method Blank - Batch: 280-116628

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-116628/1-A	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-116628	Lab File ID:	D0423.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.1 g
Analysis Date:	04/26/2012 1156	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.6	U	9.6	310
Acenaphthylene	16	U	16	310
Anthracene	16	U	16	310
Benzo[a]anthracene	19	U	19	310
Benzo[a]pyrene	19	U	19	310
Benzo[b]fluoranthene	24	U	24	310
Benzo[ghi]perylene	15	U	15	310
Benzo[k]fluoranthene	37	U	37	310
Bis(2-chloroethoxy)methane	21	U	21	310
Bis(2-chloroethyl)ether	16	U	16	310
bis (2-chloroisopropyl) ether	21	U	21	310
Bis(2-ethylhexyl) phthalate	86.3	J	43	310
4-Bromophenyl phenyl ether	18	U	18	310
Butyl benzyl phthalate	40	U	40	310
Carbazole	34	U	34	310
4-Chloroaniline	77	U	77	310
4-Chloro-3-methylphenol	62	U	62	310
2-Chloronaphthalene	9.3	U	9.3	310
2-Chlorophenol	20	U	20	310
4-Chlorophenyl phenyl ether	20	U	20	310
Chrysene	25	U	25	310
Dibenz(a,h)anthracene	18	U	18	310
Dibenzofuran	19	U	19	310
1,2-Dichlorobenzene	21	U	21	310
1,3-Dichlorobenzene	11	U	11	310
1,4-Dichlorobenzene	13	U	13	310
3,3'-Dichlorobenzidine	84	U	84	620
2,4-Dichlorophenol	9.3	U	9.3	310
Diethyl phthalate	24	U	24	310
2,4-Dimethylphenol	62	U	62	310
Dimethyl phthalate	21	U	21	310
Di-n-butyl phthalate	27	U	27	310
4,6-Dinitro-2-methylphenol	310	U	310	620
2,4-Dinitrophenol	310	U	310	770
2,4-Dinitrotoluene	62	U	62	310
2,6-Dinitrotoluene	26	U	26	310
Di-n-octyl phthalate	13	U	13	310
Fluoranthene	34	U	34	310
Fluorene	17	U	17	310
Hexachlorobenzene	27	U	27	310
Hexachlorobutadiene	9.3	U	9.3	310
Hexachlorocyclopentadiene	47	U	47	310
Hexachloroethane	20	U	20	310
Indeno[1,2,3-cd]pyrene	21	U	21	310
Isophorone	16	U	16	310

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Method Blank - Batch: 280-116628

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-116628/1-A	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-116628	Lab File ID:	D0423.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.1 g
Analysis Date:	04/26/2012 1156	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	18	U	18	310
2-Methylphenol	12	U	12	310
3 & 4 Methylphenol	31	U	31	310
Naphthalene	29	U	29	310
2-Nitroaniline	47	U	47	310
3-Nitroaniline	68	U	68	310
4-Nitroaniline	68	U	68	310
Nitrobenzene	21	U	21	310
2-Nitrophenol	9.3	U	9.3	310
4-Nitrophenol	91	U	91	620
N-Nitrosodi-n-propylamine	29	U	29	310
N-Nitrosodiphenylamine	20	U	20	310
Pentachlorophenol	310	U	310	620
Phenanthrene	16	U	16	310
Phenol	17	U	17	310
Pyrene	11	U	11	310
1,2,4-Trichlorobenzene	26	U	26	310
2,4,5-Trichlorophenol	9.3	U	9.3	310
2,4,6-Trichlorophenol	9.3	U	9.3	310

Surrogate	% Rec		Acceptance Limits
2-Fluorobiphenyl	88		50 - 120
2-Fluorophenol	96		53 - 120
Nitrobenzene-d5	87		50 - 120
Phenol-d5	97		52 - 120
Terphenyl-d14	124	*	55 - 120
2,4,6-Tribromophenol	92		51 - 120

Method Blank TICs- Batch: 280-116628

Cas Number	Analyte	RT	Est. Result	Qual
625-86-5	Furan, 2,5-dimethyl-	1.82	136	N J
	Unknown	2.68	2250	N J

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Lab Control Sample - Batch: 280-116628

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-116628/2-A	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-116628	Lab File ID:	D0411.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	04/26/2012 0808	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2660	2430	92	60 - 120	
Acenaphthylene	2660	2520	95	64 - 120	
Anthracene	2660	2810	106	63 - 120	
Benzo[a]anthracene	2660	2730	103	65 - 120	
Benzo[a]pyrene	2660	2390	90	59 - 120	
Benzo[b]fluoranthene	2660	2530	95	47 - 129	
Benzo[ghi]perylene	2660	2970	112	55 - 126	
Benzo[k]fluoranthene	2660	3020	113	48 - 130	
Bis(2-chloroethoxy)methane	2660	2270	86	56 - 120	
Bis(2-chloroethyl)ether	2660	1920	72	51 - 120	
bis (2-chloroisopropyl) ether	2660	1940	73	49 - 120	
Bis(2-ethylhexyl) phthalate	2660	2850	107	65 - 120	
4-Bromophenyl phenyl ether	2660	2730	103	64 - 120	
Butyl benzyl phthalate	2660	2940	111	65 - 120	
Carbazole	2660	2850	107	64 - 120	
4-Chloroaniline	2660	1580	59	28 - 120	
4-Chloro-3-methylphenol	2660	2620	99	63 - 120	
2-Chloronaphthalene	2660	2400	90	59 - 120	
2-Chlorophenol	2660	2340	88	57 - 120	
4-Chlorophenyl phenyl ether	2660	2520	95	64 - 120	
Chrysene	2660	2700	101	64 - 120	
Dibenz(a,h)anthracene	2660	2440	92	50 - 133	
Dibenzofuran	2660	2490	94	61 - 120	
1,2-Dichlorobenzene	2660	2110	79	53 - 120	
1,3-Dichlorobenzene	2660	2030	76	52 - 120	
1,4-Dichlorobenzene	2660	2050	77	52 - 120	
3,3'-Dichlorobenzidine	2660	1570	59	30 - 120	
2,4-Dichlorophenol	2660	2410	91	60 - 120	
Diethyl phthalate	2660	2830	107	66 - 120	
2,4-Dimethylphenol	2660	2230	84	54 - 120	
Dimethyl phthalate	2660	2840	107	65 - 120	
Di-n-butyl phthalate	2660	3130	118	67 - 120	
4,6-Dinitro-2-methylphenol	2660	2520	95	57 - 120	
2,4-Dinitrophenol	2660	1880	71	46 - 120	
2,4-Dinitrotoluene	2660	2710	102	68 - 120	
2,6-Dinitrotoluene	2660	2600	98	64 - 120	
Di-n-octyl phthalate	2660	2960	111	66 - 120	
Fluoranthene	2660	2950	111	66 - 120	
Fluorene	2660	2550	96	64 - 120	
Hexachlorobenzene	2660	2670	100	62 - 120	
Hexachlorobutadiene	2660	2160	81	53 - 120	

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Lab Control Sample - Batch: 280-116628

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-116628/2-A	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-116628	Lab File ID:	D0411.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	04/26/2012 0808	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexachlorocyclopentadiene	2660	2370	89	47 - 120	
Hexachloroethane	2660	2040	77	51 - 120	
Indeno[1,2,3-cd]pyrene	2660	2740	103	63 - 120	
Isophorone	2660	2250	85	56 - 120	
2-Methylnaphthalene	2660	2160	81	57 - 120	
2-Methylphenol	2660	2240	84	56 - 120	
3 & 4 Methylphenol	5320	5380	101	53 - 120	
Naphthalene	2660	2210	83	57 - 120	
2-Nitroaniline	2660	2970	112	63 - 120	
3-Nitroaniline	2660	2150	81	47 - 120	
4-Nitroaniline	2660	2500	94	64 - 120	
Nitrobenzene	2660	2280	86	54 - 120	
2-Nitrophenol	2660	2380	89	56 - 120	
4-Nitrophenol	2660	3080	116	63 - 121	
N-Nitrosodi-n-propylamine	2660	2630	99	51 - 120	
N-Nitrosodiphenylamine	2270	2280	101	61 - 120	
Pentachlorophenol	2660	2150	81	56 - 120	
Phenanthrene	2660	2830	106	64 - 120	
Phenol	2660	2330	88	56 - 120	
Pyrene	2660	2600	98	64 - 120	
1,2,4-Trichlorobenzene	2660	2210	83	52 - 120	
2,4,5-Trichlorophenol	2660	2830	107	64 - 120	
2,4,6-Trichlorophenol	2660	2620	99	61 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	92	50 - 120
2-Fluorophenol	90	53 - 120
Nitrobenzene-d5	87	50 - 120
Phenol-d5	92	52 - 120
Terphenyl-d14	107	55 - 120
2,4,6-Tribromophenol	108	51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-116628

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-27979-1	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-116628	Lab File ID:	D0412.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/26/2012 0827			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-27979-1	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-116628	Lab File ID:	D0413.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 0846			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	91	99	60 - 120	7	30		
Acenaphthylene	94	98	64 - 120	2	30		
Anthracene	104	117	63 - 120	10	30		
Benzo[a]anthracene	100	112	65 - 120	11	30		
Benzo[a]pyrene	90	95	59 - 120	5	30		
Benzo[b]fluoranthene	93	99	47 - 129	5	44		
Benzo[ghi]perylene	108	116	55 - 126	6	31		
Benzo[k]fluoranthene	107	123	48 - 130	12	30		
Bis(2-chloroethoxy)methane	82	84	56 - 120	1	30		
Bis(2-chloroethyl)ether	76	73	51 - 120	5	30		
bis (2-chloroisopropyl) ether	73	77	49 - 120	4	30		
Bis(2-ethylhexyl) phthalate	102	112	65 - 120	8	30		
4-Bromophenyl phenyl ether	101	112	64 - 120	9	30		
Butyl benzyl phthalate	110	123	65 - 120	10	30		T
Carbazole	104	117	64 - 120	11	30		
4-Chloroaniline	69	72	28 - 120	3	30		
4-Chloro-3-methylphenol	98	107	63 - 120	7	30		
2-Chloronaphthalene	91	92	59 - 120	1	30		
2-Chlorophenol	87	89	57 - 120	1	30		
4-Chlorophenyl phenyl ether	97	105	64 - 120	7	30		
Chrysene	103	111	64 - 120	6	35		
Dibenz(a,h)anthracene	91	97	50 - 133	6	30		
Dibenzofuran	94	101	61 - 120	5	30		
1,2-Dichlorobenzene	76	79	53 - 120	2	30		
1,3-Dichlorobenzene	71	75	52 - 120	4	32		
1,4-Dichlorobenzene	75	78	52 - 120	2	30		
3,3'-Dichlorobenzidine	79	92	30 - 120	14	30		
2,4-Dichlorophenol	92	94	60 - 120	1	30		
Diethyl phthalate	105	115	66 - 120	8	30		
2,4-Dimethylphenol	94	96	54 - 120	1	30		
Dimethyl phthalate	103	114	65 - 120	8	30		
Di-n-butyl phthalate	114	128	67 - 120	10	30		T

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-116628

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-27979-1	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-116628	Lab File ID:	D0412.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/26/2012 0827			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-27979-1	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-116628	Lab File ID:	D0413.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 0846			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,6-Dinitro-2-methylphenol	77	78	57 - 120	0	30		
2,4-Dinitrophenol	45	39	46 - 120	15	34	T	T
2,4-Dinitrotoluene	99	109	68 - 120	8	30		
2,6-Dinitrotoluene	94	106	64 - 120	10	30		
Di-n-octyl phthalate	111	123	66 - 120	9	30		T
Fluoranthene	109	122	66 - 120	10	30		T
Fluorene	96	105	64 - 120	8	30		
Hexachlorobenzene	96	113	62 - 120	15	30		
Hexachlorobutadiene	77	82	53 - 120	5	30		
Hexachlorocyclopentadiene	82	85	47 - 120	2	30		
Hexachloroethane	72	76	51 - 120	4	30		
Indeno[1,2,3-cd]pyrene	103	110	63 - 120	6	30		
Isophorone	83	86	56 - 120	2	30		
2-Methylnaphthalene	82	82	57 - 120	2	30		
2-Methylphenol	84	87	56 - 120	1	30		
3 & 4 Methylphenol	102	105	53 - 120	1	30		
Naphthalene	80	84	57 - 120	3	30		
2-Nitroaniline	110	121	63 - 120	8	30		T
3-Nitroaniline	91	100	47 - 120	8	30		
4-Nitroaniline	101	112	64 - 120	9	30		
Nitrobenzene	84	87	54 - 120	2	30		
2-Nitrophenol	89	91	56 - 120	1	30		
4-Nitrophenol	111	118	63 - 121	6	30		
N-Nitrosodi-n-propylamine	97	99	51 - 120	1	30		
N-Nitrosodiphenylamine	98	111	61 - 120	11	36		
Pentachlorophenol	70	74	56 - 120	5	30		
Phenanthrene	103	116	64 - 120	10	30		
Phenol	88	90	56 - 120	1	30		
Pyrene	98	108	64 - 120	9	38		
1,2,4-Trichlorobenzene	82	84	52 - 120	1	30		
2,4,5-Trichlorophenol	104	113	64 - 120	7	30		
2,4,6-Trichlorophenol	96	105	61 - 120	8	30		

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-116628

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-27979-1	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-116628	Lab File ID:	D0412.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/26/2012 0827			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-27979-1	Analysis Batch:	280-117522	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-116628	Lab File ID:	D0413.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2012 0846			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1740			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	92	95	50 - 120
2-Fluorophenol	89	93	53 - 120
Nitrobenzene-d5	85	88	50 - 120
Phenol-d5	91	94	52 - 120
Terphenyl-d14	105	117	55 - 120
2,4,6-Tribromophenol	102	112	51 - 120

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Method Blank - Batch: 280-116480

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-116480/1-A	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-116480	Lab File ID:	021F2101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.1 g
Analysis Date:	04/24/2012 1617	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	04/22/2012 1415			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.7	U	2.7	9.6
Aroclor 1221	7.7	U	7.7	16
Aroclor 1232	1.9	U	1.9	9.6
Aroclor 1242	4.5	U	4.5	9.6
Aroclor 1248	4.5	U	4.5	9.6
Aroclor 1254	2.5	U	2.5	9.6
Aroclor 1260	2.5	U	2.5	9.6

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	69	59 - 130
Tetrachloro-m-xylene	91	53 - 128

Lab Control Sample - Batch: 280-116480

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-116480/2-A	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-116480	Lab File ID:	022F2201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	04/24/2012 1640	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	04/22/2012 1415			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	32.8	33.3	102	54 - 132	
Aroclor 1260	32.8	31.5	96	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	79	59 - 130
Tetrachloro-m-xylene	89	53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-116480

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-27979-2	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-116480	Lab File ID:	026F2601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	04/24/2012 1813			Final Weight/Volume:	5000 uL
Prep Date:	04/22/2012 1415			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-27979-2	Analysis Batch:	280-116930	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-116480	Lab File ID:	027F2701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	04/24/2012 1836			Final Weight/Volume:	5000 uL
Prep Date:	04/22/2012 1415			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	109	111	54 - 132	3	26		
Aroclor 1260	109	111	62 - 129	3	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	94	95	59 - 130
Tetrachloro-m-xylene	96	98	53 - 128

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Method Blank - Batch: 280-116631

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-116631/1-A	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-116631	Lab File ID:	008F0801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	04/30/2012 1639	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	990	U	990	4000
C10-C28	706	J	670	4000

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

Lab Control Sample - Batch: 280-116631

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	LCS 280-116631/2-A	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-116631	Lab File ID:	009F0901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.9 g
Analysis Date:	04/30/2012 1704	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C10-C36	60800	55400	91	57 - 115	
C10-C28	60800	55400	91	53 - 115	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	80	49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-116631

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-27979-9	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-116631	Lab File ID:	019F1901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	04/30/2012 2108			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-27979-9	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-116631	Lab File ID:	020F2001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.1 g
Analysis Date:	04/30/2012 2133			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	78	84	57 - 115	4	23		
C10-C28	79	85	56 - 115	4	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	74	79	49 - 115

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-116631

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-27979-20	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-116631	Lab File ID:	033F3301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	05/01/2012 0247			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-27979-20	Analysis Batch:	280-117874	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-116631	Lab File ID:	034F3401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	05/01/2012 0312			Final Weight/Volume:	1000 uL
Prep Date:	04/23/2012 1600			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	56	52	57 - 115	4	23	N	N
C10-C28	74	73	56 - 115	1	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	84	81	49 - 115

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Method Blank - Batch: 280-116496

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-116496/1-A	Analysis Batch:	280-116886	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/25/2012 0030	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Arsenic	0.66	U	0.66	1.0
Barium	0.076	U	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.8	U	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.499	B	0.40	1.0

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Lab Control Sample - Batch: 280-116496

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-116496/2-A	Analysis Batch:	280-116886	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/25/2012 0032	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	193.0	97	82 - 116	
Antimony	50.0	47.90	96	82 - 110	
Arsenic	100	96.43	96	85 - 110	
Barium	200	194.7	97	87 - 112	
Beryllium	5.00	4.77	95	84 - 114	
Boron	100	96.60	97	81 - 110	
Cadmium	10.0	9.91	99	87 - 110	
Calcium	5000	4741	95	82 - 114	
Chromium	20.0	19.62	98	84 - 114	
Cobalt	50.0	48.43	97	87 - 110	
Copper	25.0	25.25	101	88 - 110	
Iron	100	99.80	100	87 - 120	
Lead	50.0	49.45	99	86 - 110	
Magnesium	5000	4949	99	90 - 110	
Manganese	50.0	50.07	100	88 - 110	
Molybdenum	100	98.33	98	86 - 110	
Nickel	50.0	48.59	97	87 - 110	
Potassium	5000	4981	100	89 - 110	
Selenium	200	198.3	99	83 - 110	
Silicon	1000	88.75	9	10 - 70	N
Silver	5.00	5.09	102	87 - 114	
Sodium	5000	5068	101	90 - 112	
Vanadium	50.0	49.77	100	88 - 110	
Zinc	50.0	49.28	99	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Matrix Spike - Batch: 280-116496

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-27979-20	Analysis Batch:	280-116886	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	04/25/2012 0145	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	7180		194	9740	1319	50 - 200	4
Antimony	0.39	U	48.4	21.92	45	20 - 200	
Arsenic	3.6		96.9	87.30	86	76 - 111	
Barium	62.9		194	240.0	91	52 - 159	
Beryllium	0.54		4.84	4.85	89	72 - 105	
Boron	1.7	B	96.9	85.11	86	75 - 107	
Cadmium	0.098	B	9.69	9.01	92	40 - 130	
Calcium	4700		4840	10350	117	43 - 165	
Chromium	8.5		19.4	28.35	103	70 - 200	
Cobalt	6.8		48.4	49.55	88	72 - 106	
Copper	13.9		24.2	37.56	98	37 - 187	
Iron	19400		96.9	22320	3010	70 - 200	4
Lead	4.7		48.4	48.30	90	70 - 200	
Magnesium	4050		4840	9082	104	64 - 145	
Manganese	292		48.4	381.9	185	40 - 200	4
Molybdenum	0.26	U	96.9	84.17	87	75 - 103	
Nickel	10.4		48.4	52.98	88	61 - 126	
Potassium	1480		4840	6359	101	56 - 172	
Selenium	0.87	U	194	173.4	89	76 - 104	
Silicon	419		969	517.9	10	20 - 200	N
Silver	0.16	U	4.84	4.62	95	75 - 141	
Sodium	271		4840	5038	98	78 - 111	
Vanadium	45.2		48.4	104.6	123	50 - 169	
Zinc	44.0		48.4	91.63	98	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Duplicate - Batch: 280-116496

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-27979-20	Analysis Batch:	280-116886	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-116496	Lab File ID:	25A5042412.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	04/25/2012 0142	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/24/2012 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	7180		7603	6	40	
Antimony	0.39	U	0.38	NC	40	U
Arsenic	3.6		4.16	14	30	
Barium	62.9		64.00	2	30	
Beryllium	0.54		0.604	11	30	
Boron	1.7	B	1.85	10	30	B
Cadmium	0.098	B	0.117	18	30	B
Calcium	4700		4949	5	30	
Chromium	8.5		9.35	10	40	
Cobalt	6.8		7.24	7	30	
Copper	13.9		14.94	7	30	
Iron	19400		21620	11	40	
Lead	4.7		5.99	24	40	
Magnesium	4050		4008	1	30	
Manganese	292		323.1	10	40	
Molybdenum	0.26	U	0.26	NC	30	U
Nickel	10.4		9.65	7	30	
Potassium	1480		1582	7	40	
Selenium	0.87	U	0.958	NC	30	B
Silicon	419		383.4	9	40	N
Silver	0.16	U	0.16	NC	30	U
Sodium	271		247.7	9	30	
Vanadium	45.2		56.08	21	30	
Zinc	44.0		47.37	7	40	

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Method Blank - Batch: 280-116459

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-116459/1-A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	04/24/2012 1826	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-116459

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-116459/2-A	Analysis Batch:	280-116924	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	04/24/2012 1828	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.408	98	87 - 111	

Matrix Spike - Batch: 280-116459

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-27979-1	Analysis Batch:	280-116924	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.70 g
Analysis Date:	04/24/2012 1835	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.073	0.375	0.398	87	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Duplicate - Batch: 280-116459

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-27979-1	Analysis Batch:	280-116924	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-116459	Lab File ID:	120424aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.67 g
Analysis Date:	04/24/2012 1833	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/24/2012 1020				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.073	0.0136	137	20	B M

Client: Washington Closure Hanford

Job Number: 280-27979-1
Sdg Number: J01481

Duplicate - Batch: 280-116440

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-27979-1	Analysis Batch:	280-116440	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:	04/21/2012 0828	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	4.8	4.6	2	20	

Duplicate - Batch: 280-116440

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-27979-10	Analysis Batch:	280-116440	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:	04/21/2012 0828	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	3.4	3.4	1	20	

Duplicate - Batch: 280-116440

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-27979-18	Analysis Batch:	280-116440	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:	04/21/2012 0828	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	2.0	1.9	0.3	20	