SAF-RC-075
100-D/DR Burial Grounds & Remaining Sites – Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 2/12/15
INITIAL/DATE

COMMENTS:

SDG JP0900 SAF RC-075

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 100-D-75:1 (SPA, verification)

ANALYTICAL REPORT

Job Number: 280-65034-1

SDG Number: JP0900

Job Description: SAF# RC-075

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

Attention: Joan H Kessner

Approved for release.
Kae E Yoder
Senior Project Manager
2/11/2015 4:25 PM

Kae E Yoder, Senior Project Manager
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02/11/2015

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 4025.

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

Job Number: 280-65034-1

SDG #: JP0900
SAF#: RC-075

Date SDG Closed: February 4, 2015
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1V3T8	280-65034-1	6010/7471/8082/8270/WTPH-D+	6010B/7471A/8082/8270C/NWTPH-Dx
J1V3T9	280-65034-2	6010/7471/8082/8270/WTPH-D+	6010B/7471A/8082/8270C/NWTPH-Dx
J1V3V0	280-65034-3	6010/7471/8082/8270/WTPH-D+	6010B/7471A/8082/8270C/NWTPH-Dx
J1V3V1	280-65034-4	6010/7471/8082/8270/WTPH-D+	6010B/7471A/8082/8270C/NWTPH-Dx
J1V3V2	280-65034-5	6010/7471/8082/8270/WTPH-D+	6010B/7471A/8082/8270C/NWTPH-Dx
J1V3V3	280-65034-6	6010/7471/8082/8270/WTPH-D+	6010B/7471A/8082/8270C/NWTPH-Dx
J1V3V4	280-65034-7	6010/7471/8082/8270/WTPH-D+	6010B/7471A/8082/8270C/NWTPH-Dx
J1V3V5	280-65034-8	6010/7471/8082/8270/WTPH-D+	6010B/7471A/8082/8270C/NWTPH-Dx
J1V3V6	280-65034-9	6010/7471/8082/8270/WTPH-D+	6010B/7471A/8082/8270C/NWTPH-Dx
J1V3V7	280-65034-10	6010/7471/8082/8270/WTPH-D+	6010B/7471A/8082/8270C/NWTPH-Dx
J1V3V8	280-65034-11	6010/7471/8082/8270/WTPH-D+	6010B/7471A/8082/8270C/NWTPH-Dx
J1V3V9	280-65034-12	6010/7471/8082/8270/WTPH-D+	6010B/7471A/8082/8270C/NWTPH-Dx
J1V3W0	280-65034-13	6010/7471/8082/8270/WTPH-D+	6010B/7471A/8082/8270C/NWTPH-Dx
J1V3W1	280-65034-14	6010/7471	6010B/7471A

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 2/4/2015 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.8º C, 3.4º C and 4.4º C.

GC/MS SEMIVOLATILES - SW846 8270C
No anomalies were encountered.

GC SEMIVOLATILES - SW846 8082 - PCBs
No anomalies were encountered.

GC SEMIVOLATILES - NWTPH-Dx - DRO
No anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A

Serial dilution of a digestate in batch 280-263130 indicates that physical and chemical interferences are present for Chromium and Vanadium. Results have been flagged with an “X”.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the methods. In some cases, samples required a 5X dilution prior to the analysis of Antimony, Beryllium, Cobalt, Copper, Lead and Vanadium to minimize the interference caused by Titanium concentrations greater than the linear range. The reporting limits have been adjusted relative to the dilution required.

Low levels of Barium, Calcium, Magnesium and Zinc are present in the method blank associated with batch 280-263130. Because the concentrations in the method blank are not present at levels greater than half the reporting limit, corrective action is deemed unnecessary.

Copper is present in the method blank associated with batch 280-263130 at 0.694 mg/kg, which is greater than half the project specific reporting limit (PSRL) of 1 mg/kg. TestAmerica’s practical quantitation limit (PQL) for Copper is 2 mg/kg. The laboratory cannot maintain system cleanliness at this low level; therefore, corrective action is not initiated. It can be noted that the concentration found in the method blank is less than half of the laboratory standard PQL, and with the exception of ‘blank’ sample J1V3W1, the associated sample amounts are twenty times greater than the method blank concentration.

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 J1V3T8; therefore, control limits are not applicable.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an Estimated Value for TICs
	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.
GC Semi VOA		
	U	Analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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 greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.
	C	The analyte was detected in both the sample and the assoicated QC blank, and the sample concentration was </= 5X the blank concentration.
General Chemistry		
	U	Analyzed for but not detected.

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-65034-1	J1V3T8	Solid	02/02/2015 0943	02/04/2015 1000
280-65034-2	J1V3T9	Solid	02/02/2015 0948	02/04/2015 1000
280-65034-3	J1V3V0	Solid	02/02/2015 0951	02/04/2015 1000
280-65034-4	J1V3V1	Solid	02/02/2015 0955	02/04/2015 1000
280-65034-5	J1V3V2	Solid	02/02/2015 0958	02/04/2015 1000
280-65034-6	J1V3V3	Solid	02/02/2015 1002	02/04/2015 1000
280-65034-7	J1V3V4	Solid	02/02/2015 1005	02/04/2015 1000
280-65034-8	J1V3V5	Solid	02/02/2015 1011	02/04/2015 1000
280-65034-9	J1V3V6	Solid	02/02/2015 1015	02/04/2015 1000
280-65034-10	J1V3V7	Solid	02/02/2015 1018	02/04/2015 1000
280-65034-11	J1V3V8	Solid	02/02/2015 1022	02/04/2015 1000
280-65034-12	J1V3V9	Solid	02/02/2015 1025	02/04/2015 1000
280-65034-13	J1V3W0	Solid	02/02/2015 0943	02/04/2015 1000
280-65034-14	J1V3W1	Solid	02/02/2015 0940	02/04/2015 1000

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

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: 280-65034-1
Sdg Number: JP0900

Method	Analyst	Analyst ID
SW846 8270C	Kiekel, Daniel C	DCK
SW846 8082	Jackson, Todd D	TDJ
NWTPH NWTPH-Dx	Moore, Tegan E	TEM
SW846 6010B	Broander, Laura L	LLB
SW846 6010B	Scott, Samantha J	SJS
SW846 7471A	Grisdale, Christopher G	CGG
ASTM D-2216	Cherry, Scott V	SVC

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3T8**

Lab Sample ID: 280-65034-1
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16390.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	02/09/2015 1519			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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		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		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		26	U	26	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: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3T8**

Lab Sample ID: 280-65034-1
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16390.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	02/09/2015 1519			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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	76		50 - 120
2-Fluorophenol	84		53 - 120
Nitrobenzene-d5	83		50 - 120
Phenol-d5	87		52 - 120
Terphenyl-d14	78		55 - 120
2,4,6-Tribromophenol	74		51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3T8**

Lab Sample ID: 280-65034-1
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16390.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	02/09/2015 1519			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.27	7100	J N
107-70-0	2-Pentanone, 4-methoxy-4-methyl-	3.84	180	N J

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3T9**

Lab Sample ID: 280-65034-2
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 02/02/2015 0948
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16393.D
Dilution:	1.0			Initial Weight/Volume:	32.6 g
Analysis Date:	02/09/2015 1639			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		20	U	20	320
Benzo[a]pyrene		20	U	20	320
Benzo[b]fluoranthene		26	U	26	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		23	U	23	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		23	U	23	320
Bis(2-ethylhexyl) phthalate		45	U	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		65	U	65	320
2-Chloronaphthalene		9.8	U	9.8	320
2-Chlorophenol		21	U	21	320
4-Chlorophenyl phenyl ether		21	U	21	320
Chrysene		27	U	27	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		20	U	20	320
1,2-Dichlorobenzene		22	U	22	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		88	U	88	650
2,4-Dichlorophenol		9.8	U	9.8	320
Diethyl phthalate		26	U	26	320
2,4-Dimethylphenol		65	U	65	320
Dimethyl phthalate		23	U	23	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	650
2,4-Dinitrophenol		330	U	330	810
2,4-Dinitrotoluene		65	U	65	320
2,6-Dinitrotoluene		28	U	28	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.8	U	9.8	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		22	U	22	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3T9**

Lab Sample ID: 280-65034-2
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 02/02/2015 0948
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16393.D
Dilution:	1.0			Initial Weight/Volume:	32.6 g
Analysis Date:	02/09/2015 1639			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		72	U	72	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		22	U	22	320
2-Nitrophenol		9.8	U	9.8	320
4-Nitrophenol		95	U	95	650
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		21	U	21	320
Pentachlorophenol		320	U	320	650
Phenanthrene		17	U	17	320
Phenol		18	U	18	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		28	U	28	320
2,4,5-Trichlorophenol		9.8	U	9.8	320
2,4,6-Trichlorophenol		9.8	U	9.8	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	81		50 - 120
2-Fluorophenol	91		53 - 120
Nitrobenzene-d5	88		50 - 120
Phenol-d5	91		52 - 120
Terphenyl-d14	84		55 - 120
2,4,6-Tribromophenol	83		51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3T9**

Lab Sample ID: 280-65034-2
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 02/02/2015 0948
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16393.D
Dilution:	1.0			Initial Weight/Volume:	32.6 g
Analysis Date:	02/09/2015 1639			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.26	6900	N J
107-70-0	2-Pentanone, 4-methoxy-4-methyl-	3.84	180	N J

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V0**

Lab Sample ID: 280-65034-3
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 02/02/2015 0951
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16394.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	02/09/2015 1706			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		20	U	20	320
Benzo[a]pyrene		20	U	20	320
Benzo[b]fluoranthene		26	U	26	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		45	U	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		65	U	65	320
2-Chloronaphthalene		9.8	U	9.8	320
2-Chlorophenol		21	U	21	320
4-Chlorophenyl phenyl ether		21	U	21	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		20	U	20	320
1,2-Dichlorobenzene		22	U	22	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		88	U	88	650
2,4-Dichlorophenol		9.8	U	9.8	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		65	U	65	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	650
2,4-Dinitrophenol		330	U	330	810
2,4-Dinitrotoluene		65	U	65	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.8	U	9.8	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		22	U	22	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V0**

Lab Sample ID: 280-65034-3
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 02/02/2015 0951
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16394.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	02/09/2015 1706			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		22	U	22	320
2-Nitrophenol		9.8	U	9.8	320
4-Nitrophenol		95	U	95	650
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		21	U	21	320
Pentachlorophenol		320	U	320	650
Phenanthrene		17	U	17	320
Phenol		18	U	18	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.8	U	9.8	320
2,4,6-Trichlorophenol		9.8	U	9.8	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	78		50 - 120
2-Fluorophenol	88		53 - 120
Nitrobenzene-d5	85		50 - 120
Phenol-d5	89		52 - 120
Terphenyl-d14	82		55 - 120
2,4,6-Tribromophenol	76		51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V0**

Lab Sample ID: 280-65034-3
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 02/02/2015 0951
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16394.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	02/09/2015 1706			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.27	6800	N J
107-70-0	2-Pentanone, 4-methoxy-4-methyl-	3.84	180	N J

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V1**

Lab Sample ID: 280-65034-4
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0955
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16395.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	02/09/2015 1733			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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		46	U	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	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	830
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		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: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V1**

Lab Sample ID: 280-65034-4
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0955
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16395.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	02/09/2015 1733			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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		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	81		50 - 120
2-Fluorophenol	86		53 - 120
Nitrobenzene-d5	84		50 - 120
Phenol-d5	89		52 - 120
Terphenyl-d14	81		55 - 120
2,4,6-Tribromophenol	78		51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V1**

Lab Sample ID: 280-65034-4
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0955
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16395.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	02/09/2015 1733			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.27	6900	N J
107-70-0	2-Pentanone, 4-methoxy-4-methyl-	3.84	180	N J

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V2**

Lab Sample ID: 280-65034-5
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 02/02/2015 0958
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16396.D
Dilution:	1.0			Initial Weight/Volume:	32.9 g
Analysis Date:	02/09/2015 1759			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.9	U	9.9	320
Acenaphthylene		16	U	16	320
Anthracene		16	U	16	320
Benzo[a]anthracene		19	U	19	320
Benzo[a]pyrene		19	U	19	320
Benzo[b]fluoranthene		25	U	25	320
Benzo[ghi]perylene		15	U	15	320
Benzo[k]fluoranthene		38	U	38	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		44	U	44	320
4-Bromophenyl phenyl ether		18	U	18	320
Butyl benzyl phthalate		41	U	41	320
Carbazole		35	U	35	320
4-Chloroaniline		79	U	79	320
4-Chloro-3-methylphenol		63	U	63	320
2-Chloronaphthalene		9.6	U	9.6	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		18	U	18	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		86	U	86	630
2,4-Dichlorophenol		9.6	U	9.6	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		63	U	63	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	630
2,4-Dinitrophenol		320	U	320	790
2,4-Dinitrotoluene		63	U	63	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		17	U	17	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.6	U	9.6	320
Hexachlorocyclopentadiene		48	U	48	320
Hexachloroethane		20	U	20	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		16	U	16	320
2-Methylnaphthalene		18	U	18	320

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V2**

Lab Sample ID: 280-65034-5
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 02/02/2015 0958
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16396.D
Dilution:	1.0			Initial Weight/Volume:	32.9 g
Analysis Date:	02/09/2015 1759			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		12	U	12	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		48	U	48	320
3-Nitroaniline		70	U	70	320
4-Nitroaniline		70	U	70	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.6	U	9.6	320
4-Nitrophenol		93	U	93	630
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	630
Phenanthrene		16	U	16	320
Phenol		17	U	17	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.6	U	9.6	320
2,4,6-Trichlorophenol		9.6	U	9.6	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	78		50 - 120
2-Fluorophenol	86		53 - 120
Nitrobenzene-d5	85		50 - 120
Phenol-d5	88		52 - 120
Terphenyl-d14	82		55 - 120
2,4,6-Tribromophenol	75		51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V2**

Lab Sample ID: 280-65034-5
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 02/02/2015 0958
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16396.D
Dilution:	1.0			Initial Weight/Volume:	32.9 g
Analysis Date:	02/09/2015 1759			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.27	6500	N J
107-70-0	2-Pentanone, 4-methoxy-4-methyl-	3.84	160	N J

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V3**

Lab Sample ID: 280-65034-6
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 1002
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16397.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	02/09/2015 1826			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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		46	U	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	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	830
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		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: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V3**

Lab Sample ID: 280-65034-6
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 1002
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16397.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	02/09/2015 1826			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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		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	78		50 - 120
2-Fluorophenol	88		53 - 120
Nitrobenzene-d5	86		50 - 120
Phenol-d5	89		52 - 120
Terphenyl-d14	81		55 - 120
2,4,6-Tribromophenol	74		51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V3**

Lab Sample ID: 280-65034-6
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 1002
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16397.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	02/09/2015 1826			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.27	7000	N J
107-70-0	2-Pentanone, 4-methoxy-4-methyl-	3.84	180	N J

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V4**

Lab Sample ID: 280-65034-7
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 02/02/2015 1005
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16398.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	02/09/2015 1852			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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		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		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		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	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		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: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V4**

Lab Sample ID: 280-65034-7
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 02/02/2015 1005
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16398.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	02/09/2015 1852			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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		22	U	22	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	79		50 - 120
2-Fluorophenol	86		53 - 120
Nitrobenzene-d5	85		50 - 120
Phenol-d5	89		52 - 120
Terphenyl-d14	83		55 - 120
2,4,6-Tribromophenol	73		51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V4**

Lab Sample ID: 280-65034-7
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 02/02/2015 1005
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16398.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	02/09/2015 1852			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.26	7000	N J
107-70-0	2-Pentanone, 4-methoxy-4-methyl-	3.84	170	N J

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V5**

Lab Sample ID: 280-65034-8
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 1011
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16399.D
Dilution:	1.0			Initial Weight/Volume:	32.4 g
Analysis Date:	02/09/2015 1919			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		20	U	20	320
Benzo[a]pyrene		20	U	20	320
Benzo[b]fluoranthene		26	U	26	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		45	U	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		65	U	65	320
2-Chloronaphthalene		9.8	U	9.8	320
2-Chlorophenol		21	U	21	320
4-Chlorophenyl phenyl ether		21	U	21	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		20	U	20	320
1,2-Dichlorobenzene		22	U	22	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		88	U	88	650
2,4-Dichlorophenol		9.8	U	9.8	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		65	U	65	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	650
2,4-Dinitrophenol		330	U	330	810
2,4-Dinitrotoluene		65	U	65	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.8	U	9.8	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		22	U	22	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V5**

Lab Sample ID: 280-65034-8
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 1011
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16399.D
Dilution:	1.0			Initial Weight/Volume:	32.4 g
Analysis Date:	02/09/2015 1919			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		22	U	22	320
2-Nitrophenol		9.8	U	9.8	320
4-Nitrophenol		95	U	95	650
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		21	U	21	320
Pentachlorophenol		320	U	320	650
Phenanthrene		17	U	17	320
Phenol		18	U	18	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.8	U	9.8	320
2,4,6-Trichlorophenol		9.8	U	9.8	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	75		50 - 120
2-Fluorophenol	81		53 - 120
Nitrobenzene-d5	81		50 - 120
Phenol-d5	83		52 - 120
Terphenyl-d14	80		55 - 120
2,4,6-Tribromophenol	75		51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V5**

Lab Sample ID: 280-65034-8
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 1011
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16399.D
Dilution:	1.0			Initial Weight/Volume:	32.4 g
Analysis Date:	02/09/2015 1919			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.27	6000	N J
107-70-0	2-Pentanone, 4-methoxy-4-methyl-	3.84	140	N J

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V6**

Lab Sample ID: 280-65034-9
Client Matrix: Solid
% Moisture: 5.7

Date Sampled: 02/02/2015 1015
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16400.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	02/09/2015 1946			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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		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		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: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V6**

Lab Sample ID: 280-65034-9
Client Matrix: Solid
% Moisture: 5.7

Date Sampled: 02/02/2015 1015
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16400.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	02/09/2015 1946			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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	76		50 - 120
2-Fluorophenol	84		53 - 120
Nitrobenzene-d5	82		50 - 120
Phenol-d5	87		52 - 120
Terphenyl-d14	78		55 - 120
2,4,6-Tribromophenol	75		51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V6**

Lab Sample ID: 280-65034-9
Client Matrix: Solid
% Moisture: 5.7

Date Sampled: 02/02/2015 1015
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16400.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	02/09/2015 1946			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.27	6800	N J
107-70-0	2-Pentanone, 4-methoxy-4-methyl-	3.84	160	N J

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V7**

Lab Sample ID: 280-65034-10
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 1018
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16401.D
Dilution:	1.0			Initial Weight/Volume:	33.0 g
Analysis Date:	02/09/2015 2012			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.9	U	9.9	320
Acenaphthylene		16	U	16	320
Anthracene		16	U	16	320
Benzo[a]anthracene		19	U	19	320
Benzo[a]pyrene		19	U	19	320
Benzo[b]fluoranthene		25	U	25	320
Benzo[ghi]perylene		15	U	15	320
Benzo[k]fluoranthene		38	U	38	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		44	U	44	320
4-Bromophenyl phenyl ether		18	U	18	320
Butyl benzyl phthalate		41	U	41	320
Carbazole		35	U	35	320
4-Chloroaniline		79	U	79	320
4-Chloro-3-methylphenol		63	U	63	320
2-Chloronaphthalene		9.6	U	9.6	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		18	U	18	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		86	U	86	630
2,4-Dichlorophenol		9.6	U	9.6	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		63	U	63	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	630
2,4-Dinitrophenol		320	U	320	790
2,4-Dinitrotoluene		63	U	63	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		17	U	17	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.6	U	9.6	320
Hexachlorocyclopentadiene		48	U	48	320
Hexachloroethane		20	U	20	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		16	U	16	320
2-Methylnaphthalene		18	U	18	320

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V7**

Lab Sample ID: 280-65034-10
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 1018
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16401.D
Dilution:	1.0			Initial Weight/Volume:	33.0 g
Analysis Date:	02/09/2015 2012			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		12	U	12	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		48	U	48	320
3-Nitroaniline		70	U	70	320
4-Nitroaniline		70	U	70	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.6	U	9.6	320
4-Nitrophenol		93	U	93	630
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	630
Phenanthrene		16	U	16	320
Phenol		17	U	17	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.6	U	9.6	320
2,4,6-Trichlorophenol		9.6	U	9.6	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	76		50 - 120
2-Fluorophenol	83		53 - 120
Nitrobenzene-d5	82		50 - 120
Phenol-d5	85		52 - 120
Terphenyl-d14	81		55 - 120
2,4,6-Tribromophenol	70		51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V7**

Lab Sample ID: 280-65034-10
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 1018
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16401.D
Dilution:	1.0			Initial Weight/Volume:	33.0 g
Analysis Date:	02/09/2015 2012			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.27	6300	N J
107-70-0	2-Pentanone, 4-methoxy-4-methyl-	3.84	160	N J

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V8**

Lab Sample ID: 280-65034-11
Client Matrix: Solid
% Moisture: 7.1

Date Sampled: 02/02/2015 1022
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16402.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	02/09/2015 2039			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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		48	U	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		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		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		93	U	93	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	30	340
4,6-Dinitro-2-methylphenol		340	U	340	690
2,4-Dinitrophenol		350	U	350	860
2,4-Dinitrotoluene		69	U	69	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: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V8**

Lab Sample ID: 280-65034-11
Client Matrix: Solid
% Moisture: 7.1

Date Sampled: 02/02/2015 1022
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16402.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	02/09/2015 2039			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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	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	77		50 - 120
2-Fluorophenol	85		53 - 120
Nitrobenzene-d5	84		50 - 120
Phenol-d5	87		52 - 120
Terphenyl-d14	79		55 - 120
2,4,6-Tribromophenol	73		51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V8**

Lab Sample ID: 280-65034-11
Client Matrix: Solid
% Moisture: 7.1

Date Sampled: 02/02/2015 1022
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16402.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	02/09/2015 2039			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.27	6600	N J
107-70-0	2-Pentanone, 4-methoxy-4-methyl-	3.84	180	N J

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V9**

Lab Sample ID: 280-65034-12
Client Matrix: Solid
% Moisture: 7.4

Date Sampled: 02/02/2015 1025
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16403.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	02/09/2015 2105			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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		18	U	18	350
bis (2-chloroisopropyl) ether		24	U	24	350
Bis(2-ethylhexyl) phthalate		49	U	49	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		70	U	70	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	700
2,4-Dichlorophenol		11	U	11	350
Diethyl phthalate		27	U	27	350
2,4-Dimethylphenol		70	U	70	350
Dimethyl phthalate		24	U	24	350
Di-n-butyl phthalate		31	U	31	350
4,6-Dinitro-2-methylphenol		350	U	350	700
2,4-Dinitrophenol		350	U	350	870
2,4-Dinitrotoluene		70	U	70	350
2,6-Dinitrotoluene		30	U	30	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		38	U	38	350
Fluorene		19	U	19	350
Hexachlorobenzene		31	U	31	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: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V9**

Lab Sample ID: 280-65034-12
Client Matrix: Solid
% Moisture: 7.4

Date Sampled: 02/02/2015 1025
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16403.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	02/09/2015 2105			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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		77	U	77	350
Nitrobenzene		23	U	23	350
2-Nitrophenol		11	U	11	350
4-Nitrophenol		100	U	100	700
N-Nitrosodi-n-propylamine		33	U	33	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	700
Phenanthrene		18	U	18	350
Phenol		19	U	19	350
Pyrene		13	U	13	350
1,2,4-Trichlorobenzene		30	U	30	350
2,4,5-Trichlorophenol		11	U	11	350
2,4,6-Trichlorophenol		11	U	11	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	78		50 - 120
2-Fluorophenol	88		53 - 120
Nitrobenzene-d5	86		50 - 120
Phenol-d5	89		52 - 120
Terphenyl-d14	83		55 - 120
2,4,6-Tribromophenol	79		51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V9**

Lab Sample ID: 280-65034-12
Client Matrix: Solid
% Moisture: 7.4

Date Sampled: 02/02/2015 1025
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16403.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	02/09/2015 2105			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.27	7200	N J
107-70-0	2-Pentanone, 4-methoxy-4-methyl-	3.84	200	N J

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3W0**

Lab Sample ID: 280-65034-13
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16404.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	02/09/2015 2132			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3W0**

Lab Sample ID: 280-65034-13
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16404.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	02/09/2015 2132			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			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	76		50 - 120
2-Fluorophenol	86		53 - 120
Nitrobenzene-d5	82		50 - 120
Phenol-d5	87		52 - 120
Terphenyl-d14	78		55 - 120
2,4,6-Tribromophenol	73		51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3W0**

Lab Sample ID: 280-65034-13
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Prep Method:	3550C	Prep Batch:	280-263101	Lab File ID:	G6_16404.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	02/09/2015 2132			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.26	6400	N J
107-70-0	2-Pentanone, 4-methoxy-4-methyl-	3.84	160	N J

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3T8**

Lab Sample ID: 280-65034-1
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-263124	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	02/06/2015 2048			Injection Volume:	1 uL
Prep Date:	02/05/2015 1400			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	81		59 - 130
Tetrachloro-m-xylene	76		53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3T9**

Lab Sample ID: 280-65034-2
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 02/02/2015 0948
Date Received: 02/04/2015 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-263124	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	02/06/2015 2111			Injection Volume:	1 uL
Prep Date:	02/05/2015 1400			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	82		59 - 130
Tetrachloro-m-xylene	80		53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V0**

Lab Sample ID: 280-65034-3
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 02/02/2015 0951
Date Received: 02/04/2015 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-263124	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	02/06/2015 2221			Injection Volume:	1 uL
Prep Date:	02/05/2015 1400			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	87		59 - 130
Tetrachloro-m-xylene	83		53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V1**

Lab Sample ID: 280-65034-4
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0955
Date Received: 02/04/2015 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-263124	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	02/06/2015 2244			Injection Volume:	1 uL
Prep Date:	02/05/2015 1400			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	88		59 - 130
Tetrachloro-m-xylene	82		53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V2**

Lab Sample ID: 280-65034-5
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 02/02/2015 0958
Date Received: 02/04/2015 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-263124	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	02/06/2015 2307			Injection Volume:	1 uL
Prep Date:	02/05/2015 1400			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	85		59 - 130
Tetrachloro-m-xylene	80		53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V3**

Lab Sample ID: 280-65034-6
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 1002
Date Received: 02/04/2015 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-263124	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	02/06/2015 2331			Injection Volume:	1 uL
Prep Date:	02/05/2015 1400			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	80		59 - 130
Tetrachloro-m-xylene	77		53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V4**

Lab Sample ID: 280-65034-7
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 02/02/2015 1005
Date Received: 02/04/2015 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-263124	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	02/07/2015 0017			Injection Volume:	1 uL
Prep Date:	02/05/2015 1400			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	87		59 - 130
Tetrachloro-m-xylene	82		53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V5**

Lab Sample ID: 280-65034-8
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 1011
Date Received: 02/04/2015 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-263124	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	02/07/2015 0040			Injection Volume:	1 uL
Prep Date:	02/05/2015 1400			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	81		59 - 130
Tetrachloro-m-xylene	75		53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V6**

Lab Sample ID: 280-65034-9
Client Matrix: Solid
% Moisture: 5.7

Date Sampled: 02/02/2015 1015
Date Received: 02/04/2015 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-263124	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	02/07/2015 0104			Injection Volume:	1 uL
Prep Date:	02/05/2015 1400			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	85		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V7**

Lab Sample ID: 280-65034-10
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 1018
Date Received: 02/04/2015 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-263124	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	02/07/2015 0127			Injection Volume:	1 uL
Prep Date:	02/05/2015 1400			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	88		59 - 130
Tetrachloro-m-xylene	82		53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V8**

Lab Sample ID: 280-65034-11
Client Matrix: Solid
% Moisture: 7.1

Date Sampled: 02/02/2015 1022
Date Received: 02/04/2015 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-263124	Initial Weight/Volume:	33.0 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	02/07/2015 0150			Injection Volume:	1 uL
Prep Date:	02/05/2015 1400			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	85		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V9**

Lab Sample ID: 280-65034-12
Client Matrix: Solid
% Moisture: 7.4

Date Sampled: 02/02/2015 1025
Date Received: 02/04/2015 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-263124	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	02/07/2015 0213			Injection Volume:	1 uL
Prep Date:	02/05/2015 1400			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	11
Aroclor 1221		8.5	U	8.5	18
Aroclor 1232		2.1	U	2.1	11
Aroclor 1242		4.9	U	4.9	11
Aroclor 1248		4.9	U	4.9	11
Aroclor 1254		2.8	U	2.8	11
Aroclor 1260		3.0	J	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	83		59 - 130
Tetrachloro-m-xylene	82		53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3W0**

Lab Sample ID: 280-65034-13
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-263124	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	02/07/2015 0237			Injection Volume:	1 uL
Prep Date:	02/05/2015 1400			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	86		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3T8**

Lab Sample ID: 280-65034-1
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Prep Method:	3550C	Prep Batch:	280-263129	Lab File ID:	02060031.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	02/06/2015 2329			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		3000	J	1000	4100
C10-C28		2400	J	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	92		49 - 115

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3T9**

Lab Sample ID: 280-65034-2
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 02/02/2015 0948
Date Received: 02/04/2015 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Prep Method:	3550C	Prep Batch:	280-263129	Lab File ID:	02060032.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	02/06/2015 2357			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		5900		1000	4000
C10-C28		5000		680	4000

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

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V0**

Lab Sample ID: 280-65034-3
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 02/02/2015 0951
Date Received: 02/04/2015 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Prep Method:	3550C	Prep Batch:	280-263129	Lab File ID:	02060033.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	02/07/2015 0026			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		990	U	990	4000
C10-C28		670	U	670	4000

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

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V1**

Lab Sample ID: 280-65034-4
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0955
Date Received: 02/04/2015 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Prep Method:	3550C	Prep Batch:	280-263129	Lab File ID:	02060036.D
Dilution:	1.0			Initial Weight/Volume:	33.0 g
Analysis Date:	02/07/2015 0150			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2200	J	960	3800
C10-C28		2100	J	650	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	89		49 - 115

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V2**

Lab Sample ID: 280-65034-5
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 02/02/2015 0958
Date Received: 02/04/2015 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Prep Method:	3550C	Prep Batch:	280-263129	Lab File ID:	02060039.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	02/07/2015 0315			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1900	J	1000	4100
C10-C28		2100	J	700	4100

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

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V3**

Lab Sample ID: 280-65034-6
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 1002
Date Received: 02/04/2015 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Prep Method:	3550C	Prep Batch:	280-263129	Lab File ID:	02060040.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	02/07/2015 0343			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1900	J	1000	4000
C10-C28		1800	J	680	4000

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

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V4**

Lab Sample ID: 280-65034-7
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 02/02/2015 1005
Date Received: 02/04/2015 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Prep Method:	3550C	Prep Batch:	280-263129	Lab File ID:	02060041.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	02/07/2015 0411			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1300	J	980	3900
C10-C28		1600	J	670	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	89		49 - 115

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V5**

Lab Sample ID: 280-65034-8
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 1011
Date Received: 02/04/2015 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Prep Method:	3550C	Prep Batch:	280-263129	Lab File ID:	02060042.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	02/07/2015 0439			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1600	J	1000	4100
C10-C28		1800	J	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	89		49 - 115

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V6**

Lab Sample ID: 280-65034-9
Client Matrix: Solid
% Moisture: 5.7

Date Sampled: 02/02/2015 1015
Date Received: 02/04/2015 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Prep Method:	3550C	Prep Batch:	280-263129	Lab File ID:	02060043.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	02/07/2015 0507			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2500	J	1000	4100
C10-C28		2200	J	700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	89		49 - 115

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V7**

Lab Sample ID: 280-65034-10
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 1018
Date Received: 02/04/2015 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Prep Method:	3550C	Prep Batch:	280-263129	Lab File ID:	02060044.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	02/07/2015 0536			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2000	J	1000	4200
C10-C28		2100	J	710	4200

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

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V8**

Lab Sample ID: 280-65034-11
Client Matrix: Solid
% Moisture: 7.1

Date Sampled: 02/02/2015 1022
Date Received: 02/04/2015 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Prep Method:	3550C	Prep Batch:	280-263129	Lab File ID:	02060045.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	02/07/2015 0604			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2500	J	1000	4100
C10-C28		2100	J	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	89		49 - 115

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V9**

Lab Sample ID: 280-65034-12
Client Matrix: Solid
% Moisture: 7.4

Date Sampled: 02/02/2015 1025
Date Received: 02/04/2015 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Prep Method:	3550C	Prep Batch:	280-263129	Lab File ID:	02060046.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	02/07/2015 0632			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		3400	J	1000	4200
C10-C28		2600	J	710	4200

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

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3W0**

Lab Sample ID: 280-65034-13
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Prep Method:	3550C	Prep Batch:	280-263129	Lab File ID:	02060047.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	02/07/2015 0701			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1800	J	1000	4200
C10-C28		1900	J	710	4200

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

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3T8**

Lab Sample ID: 280-65034-1
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	02/06/2015 1607			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.13	B	0.037	0.18

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	02/09/2015 1440			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4540		1.4	4.5
Arsenic		2.2		0.59	0.90
Barium		48.6		0.068	0.45
Boron		0.88	U	0.88	1.8
Calcium		6200		12.6	44.9
Chromium		3.9	X	0.052	0.18
Iron		24500		3.4	4.5
Magnesium		4140		3.3	17.9
Manganese		296		0.090	0.90
Molybdenum		0.23	U	0.23	1.8
Nickel		8.6		0.11	3.6
Potassium		676		36.8	269
Selenium		0.77	U	0.77	0.90
Silicon		122		5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		280		52.9	108
Zinc		44.9		0.36	0.90

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	5.0			Initial Weight/Volume:	1.17 g
Analysis Date:	02/09/2015 1545			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		1.7	U	1.7	2.7
Beryllium		0.22	B	0.15	0.90
Cobalt		9.9		0.45	4.5
Copper		16.7		0.97	4.5
Lead		3.4		1.2	2.2
Vanadium		77.3	X	0.42	9.0

7471A Mercury (CVAA)

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3T8**

Lab Sample ID: 280-65034-1
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	02/05/2015 1530			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0055	U	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3T9**

Lab Sample ID: 280-65034-2
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 02/02/2015 0948
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	02/06/2015 1618			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.18	B	0.039	0.19

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	02/09/2015 1450			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5900		1.5	4.8
Antimony		0.66		0.37	0.58
Arsenic		2.5		0.63	0.96
Barium		54.4		0.073	0.48
Beryllium		0.16	B	0.032	0.19
Boron		0.94	U	0.94	1.9
Calcium		6790		13.6	48.1
Chromium		5.9	X	0.056	0.19
Cobalt		8.6		0.096	0.96
Copper		16.5		0.21	0.96
Iron		26000		3.7	4.8
Lead		3.9		0.26	0.48
Magnesium		4750		3.6	19.2
Manganese		334		0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		9.8		0.12	3.8
Potassium		931		39.4	289
Selenium		0.83	U	0.83	0.96
Silicon		164		5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		302		56.7	115
Vanadium		68.2	X	0.090	1.9
Zinc		50.2		0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	02/05/2015 1537			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0073	B	0.0057	0.018

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V0**

Lab Sample ID: 280-65034-3
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 02/02/2015 0951
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	02/06/2015 1620			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.15	B	0.040	0.20

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	02/09/2015 1453			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5040		1.5	4.9
Arsenic		2.3		0.65	0.98
Barium		51.0		0.075	0.49
Boron		0.96	U	0.96	2.0
Calcium		6830		13.9	49.2
Chromium		4.9	X	0.057	0.20
Iron		27700		3.7	4.9
Magnesium		5160		3.6	19.7
Manganese		341		0.098	0.98
Molybdenum		0.26	U	0.26	2.0
Nickel		12.6		0.12	3.9
Potassium		701		40.3	295
Selenium		0.85	U	0.85	0.98
Silicon		133		5.6	9.8
Silver		0.16	U	0.16	0.20
Sodium		367		58.0	118
Zinc		53.1		0.39	0.98

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	5.0			Initial Weight/Volume:	1.07 g
Analysis Date:	02/09/2015 1555			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		2.0	B	1.9	3.0
Beryllium		0.16	U	0.16	0.98
Cobalt		11.5		0.49	4.9
Copper		17.6		1.1	4.9
Lead		3.6		1.3	2.5
Vanadium		80.0	X	0.46	9.8

7471A Mercury (CVAA)

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V0**

Lab Sample ID: 280-65034-3
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 02/02/2015 0951
Date Received: 02/04/2015 1000

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	02/05/2015 1539			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0054	U	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V1**

Lab Sample ID: 280-65034-4
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0955
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	02/06/2015 1623			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.13	B	0.038	0.19

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	02/09/2015 1456			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4690		1.4	4.7
Arsenic		3.4		0.62	0.93
Barium		38.5		0.071	0.47
Boron		0.92	U	0.92	1.9
Calcium		6470		13.2	46.7
Chromium		4.7	X	0.054	0.19
Iron		27600		3.6	4.7
Magnesium		4710		3.5	18.7
Manganese		322		0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		10		0.11	3.7
Potassium		655		38.3	280
Selenium		0.80	U	0.80	0.93
Silicon		141		5.3	9.3
Silver		0.15	U	0.15	0.19
Sodium		371		55.1	112
Zinc		47.9		0.37	0.93

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	5.0			Initial Weight/Volume:	1.13 g
Analysis Date:	02/09/2015 1558			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		1.8	U	1.8	2.8
Beryllium		0.15	U	0.15	0.93
Cobalt		10.6		0.47	4.7
Copper		17.6		1.0	4.7
Lead		3.9		1.3	2.3
Vanadium		82.0	X	0.44	9.3

7471A Mercury (CVAA)

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V1**

Lab Sample ID: 280-65034-4
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0955
Date Received: 02/04/2015 1000

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	02/05/2015 1541			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

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

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V2**

Lab Sample ID: 280-65034-5
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 02/02/2015 0958
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	02/06/2015 1626			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.13	B	0.039	0.19

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	02/09/2015 1458			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4590		1.5	4.7
Arsenic		1.9		0.63	0.95
Barium		44.6		0.072	0.47
Boron		0.93	U	0.93	1.9
Calcium		5090		13.4	47.5
Chromium		4.1	X	0.055	0.19
Iron		25700		3.6	4.7
Magnesium		4350		3.5	19.0
Manganese		325		0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		8.4		0.12	3.8
Potassium		617		38.9	285
Selenium		0.82	U	0.82	0.95
Silicon		119		5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		276		56.0	114
Zinc		45.2		0.38	0.95

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	5.0			Initial Weight/Volume:	1.11 g
Analysis Date:	02/09/2015 1601			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		1.8	U	1.8	2.8
Beryllium		0.25	B	0.16	0.95
Cobalt		10.2		0.47	4.7
Copper		17.9		1.0	4.7
Lead		3.6		1.3	2.4
Vanadium		72.9	X	0.45	9.5

7471A Mercury (CVAA)

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V2**

Lab Sample ID: 280-65034-5
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 02/02/2015 0958
Date Received: 02/04/2015 1000

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	02/05/2015 1544			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0055	U	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V3**

Lab Sample ID: 280-65034-6
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 1002
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	02/06/2015 1944			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.12	B	0.040	0.19

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	02/09/2015 1511			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4910		1.5	4.9
Arsenic		3.2		0.64	0.97
Barium		41.8		0.074	0.49
Boron		0.95	U	0.95	1.9
Calcium		6610		13.7	48.6
Chromium		4.5	X	0.056	0.19
Iron		27800		3.7	4.9
Magnesium		4520		3.6	19.4
Manganese		324		0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		8.8		0.12	3.9
Potassium		758		39.8	291
Selenium		0.84	U	0.84	0.97
Silicon		121		5.5	9.7
Silver		0.16	U	0.16	0.19
Sodium		360		57.3	117
Zinc		47.4		0.39	0.97

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	5.0			Initial Weight/Volume:	1.08 g
Analysis Date:	02/09/2015 1641			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		2.3	B	1.8	2.9
Beryllium		0.16	B	0.16	0.97
Cobalt		10.8		0.49	4.9
Copper		18.2		1.1	4.9
Lead		3.3		1.3	2.4
Vanadium		82.4	X	0.46	9.7

7471A Mercury (CVAA)

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V3**

Lab Sample ID: 280-65034-6
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 02/02/2015 1002
Date Received: 02/04/2015 1000

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	02/05/2015 1551			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

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

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V4**

Lab Sample ID: 280-65034-7
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 02/02/2015 1005
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	02/06/2015 1946			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.14	B	0.036	0.18

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	02/09/2015 1514			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3940		1.4	4.4
Arsenic		1.9		0.58	0.88
Barium		45.0		0.067	0.44
Boron		0.86	U	0.86	1.8
Calcium		5810		12.4	44.1
Chromium		2.9	X	0.051	0.18
Iron		24200		3.3	4.4
Magnesium		4220		3.3	17.6
Manganese		284		0.088	0.88
Molybdenum		0.23	U	0.23	1.8
Nickel		7.8		0.11	3.5
Potassium		633		36.1	264
Selenium		0.76	U	0.76	0.88
Silicon		118		5.0	8.8
Silver		0.14	U	0.14	0.18
Sodium		307		52.0	106
Zinc		44.0		0.35	0.88

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	5.0			Initial Weight/Volume:	1.19 g
Analysis Date:	02/09/2015 1643			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		2.1	B	1.7	2.6
Beryllium		0.22	B	0.15	0.88
Cobalt		10.3		0.44	4.4
Copper		16.9		0.96	4.4
Lead		3.6		1.2	2.2
Vanadium		68.5	X	0.41	8.8

7471A Mercury (CVAA)

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V4**

Lab Sample ID: 280-65034-7
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 02/02/2015 1005
Date Received: 02/04/2015 1000

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	02/05/2015 1553			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0053	U	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V5**

Lab Sample ID: 280-65034-8
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 1011
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	02/06/2015 1949			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.14	B	0.041	0.20

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	02/09/2015 1516			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4460		1.5	5.0
Antimony		1.0		0.38	0.60
Arsenic		2.2		0.66	1.0
Barium		43.1		0.076	0.50
Beryllium		0.11	B	0.033	0.20
Boron		0.98	U	0.98	2.0
Calcium		6870		14.0	49.8
Chromium		4.1	X	0.058	0.20
Cobalt		8.4		0.10	1.0
Copper		15.1		0.22	1.0
Iron		24700		3.8	5.0
Lead		2.8		0.27	0.50
Magnesium		4160		3.7	19.9
Manganese		313		0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		7.9		0.12	4.0
Potassium		701		40.8	299
Selenium		0.86	U	0.86	1.0
Silicon		146		5.6	10
Silver		0.16	U	0.16	0.20
Sodium		315		58.8	120
Vanadium		65.7	X	0.094	2.0
Zinc		43.5		0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	02/05/2015 1555			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0053	U	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V6**

Lab Sample ID: 280-65034-9
Client Matrix: Solid
% Moisture: 5.7

Date Sampled: 02/02/2015 1015
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	02/06/2015 1952			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.13	B	0.040	0.19

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	02/09/2015 1519			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4730		1.5	4.8
Antimony		0.75		0.37	0.58
Arsenic		2.4		0.64	0.96
Barium		46.5		0.073	0.48
Beryllium		0.16	B	0.032	0.19
Boron		0.94	U	0.94	1.9
Calcium		7890		13.6	48.2
Chromium		4.4	X	0.056	0.19
Cobalt		9.2		0.096	0.96
Copper		16.5		0.21	0.96
Iron		25600		3.7	4.8
Lead		2.9		0.26	0.48
Magnesium		4500		3.6	19.3
Manganese		319		0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		8.9		0.12	3.9
Potassium		699		39.5	289
Selenium		0.83	U	0.83	0.96
Silicon		131		5.5	9.6
Silver		0.15	U	0.15	0.19
Sodium		270		56.9	116
Vanadium		64.8	X	0.091	1.9
Zinc		44.9		0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	02/05/2015 1557			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0055	U	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V7**

Lab Sample ID: 280-65034-10
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 1018
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	02/06/2015 1954			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.11	B	0.038	0.19

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	02/09/2015 1522			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4240		1.4	4.7
Antimony		0.62		0.36	0.56
Arsenic		2.6		0.62	0.93
Barium		44.9		0.071	0.47
Beryllium		0.12	B	0.031	0.19
Boron		0.92	U	0.92	1.9
Calcium		6090		13.2	46.7
Chromium		3.3	X	0.054	0.19
Cobalt		8.9		0.093	0.93
Copper		14.9		0.20	0.93
Iron		24800		3.6	4.7
Lead		2.5		0.25	0.47
Magnesium		4120		3.5	18.7
Manganese		298		0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		8.3		0.11	3.7
Potassium		642		38.3	280
Selenium		0.80	U	0.80	0.93
Silicon		136		5.3	9.3
Silver		0.15	U	0.15	0.19
Sodium		345		55.1	112
Vanadium		64.5	X	0.088	1.9
Zinc		44.6		0.37	0.93

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	02/05/2015 1600			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0055	U	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V8**

Lab Sample ID: 280-65034-11
Client Matrix: Solid
% Moisture: 7.1

Date Sampled: 02/02/2015 1022
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	02/06/2015 1957			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.13	B	0.038	0.18

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	02/09/2015 1524			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5090		1.4	4.6
Antimony		0.69		0.35	0.55
Arsenic		2.1		0.61	0.92
Barium		51.6		0.070	0.46
Beryllium		0.15	B	0.030	0.18
Boron		0.90	U	0.90	1.8
Calcium		6490		13.0	46.0
Chromium		4.9	X	0.053	0.18
Cobalt		8.5		0.092	0.92
Copper		15.6		0.20	0.92
Iron		26000		3.5	4.6
Lead		3.0		0.25	0.46
Magnesium		4590		3.4	18.4
Manganese		324		0.092	0.92
Molybdenum		0.24	U	0.24	1.8
Nickel		8.9		0.11	3.7
Potassium		763		37.7	276
Selenium		0.79	U	0.79	0.92
Silicon		138		5.2	9.2
Silver		0.15	U	0.15	0.18
Sodium		346		54.3	110
Vanadium		67.4	X	0.086	1.8
Zinc		44.6		0.37	0.92

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	02/05/2015 1602			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0054	U	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3V9**

Lab Sample ID: 280-65034-12
Client Matrix: Solid
% Moisture: 7.4

Date Sampled: 02/02/2015 1025
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	02/06/2015 2000			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.13	B	0.041	0.20

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	02/09/2015 1527			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5380		1.5	5.0
Antimony		0.64		0.38	0.60
Arsenic		2.8		0.66	1.0
Barium		47.5		0.076	0.50
Beryllium		0.14	B	0.033	0.20
Boron		0.98	U	0.98	2.0
Calcium		7020		14.1	50.0
Chromium		5.7	X	0.058	0.20
Cobalt		8.8		0.10	1.0
Copper		16.7		0.22	1.0
Iron		25900		3.8	5.0
Lead		3.2		0.27	0.50
Magnesium		4670		3.7	20.0
Manganese		313		0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		9.5		0.12	4.0
Potassium		812		41.0	300
Selenium		0.86	U	0.86	1.0
Silicon		156		5.7	10
Silver		0.16	U	0.16	0.20
Sodium		342		59.0	120
Vanadium		65.9	X	0.094	2.0
Zinc		47.6		0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	02/05/2015 1604			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0053	U	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3W0**

Lab Sample ID: 280-65034-13
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	02/06/2015 2002			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.12	B	0.042	0.20

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	02/09/2015 1529			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5030		1.6	5.1
Arsenic		2.1		0.68	1.0
Barium		51.1		0.078	0.51
Boron		1.0	U	1.0	2.0
Calcium		6560		14.5	51.2
Chromium		4.4	X	0.059	0.20
Iron		27100		3.9	5.1
Magnesium		4640		3.8	20.5
Manganese		333		0.10	1.0
Molybdenum		0.27	U	0.27	2.0
Nickel		9.2		0.13	4.1
Potassium		732		42.0	307
Selenium		0.88	U	0.88	1.0
Silicon		143		5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		325		60.5	123
Zinc		47.1		0.41	1.0

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	5.0			Initial Weight/Volume:	1.03 g
Analysis Date:	02/09/2015 1651			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		2.5	B	1.9	3.1
Beryllium		0.27	B	0.17	1.0
Cobalt		10.0		0.51	5.1
Copper		17.4		1.1	5.1
Lead		3.6		1.4	2.6
Vanadium		77.7	X	0.48	10.2

7471A Mercury (CVAA)

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3W0**

Lab Sample ID: 280-65034-13
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	02/05/2015 1607			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0055	U	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Client Sample ID: **J1V3W1**

Lab Sample ID: 280-65034-14
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 02/02/2015 0940
Date Received: 02/04/2015 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-263579	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	02/06/2015 2005			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.037	U	0.037	0.18

Analysis Method:	6010B	Analysis Batch:	280-263701	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	02/09/2015 1532			Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		137		1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		0.59	U	0.59	0.89
Barium		1.2		0.068	0.45
Beryllium		0.066	B	0.029	0.18
Boron		0.88	U	0.88	1.8
Calcium		36.2	B C	12.6	44.6
Chromium		0.20	X	0.052	0.18
Cobalt		0.089	U	0.089	0.89
Copper		0.61	B C	0.19	0.89
Iron		678		3.4	4.5
Lead		0.31	B	0.24	0.45
Magnesium		28.3		3.3	17.9
Manganese		3.2		0.089	0.89
Molybdenum		0.23	U	0.23	1.8
Nickel		0.32	B	0.11	3.6
Potassium		50.8	B	36.6	268
Selenium		0.77	U	0.77	0.89
Silicon		94.7		5.1	8.9
Silver		0.14	U	0.14	0.18
Sodium		52.7	U	52.7	107
Vanadium		0.54	B X	0.084	1.8
Zinc		1.0	C	0.36	0.89

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	02/05/2015 1609			Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0049	U	0.0049	0.015

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

General Chemistry

Client Sample ID: **J1V3T8**

Lab Sample ID: 280-65034-1
Client Matrix: Solid

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

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

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

General Chemistry

Client Sample ID: **J1V3T9**

Lab Sample ID: 280-65034-2
Client Matrix: Solid

Date Sampled: 02/02/2015 0948
Date Received: 02/04/2015 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

General Chemistry

Client Sample ID: **J1V3V0**

Lab Sample ID: 280-65034-3
Client Matrix: Solid

Date Sampled: 02/02/2015 0951
Date Received: 02/04/2015 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

General Chemistry

Client Sample ID: **J1V3V1**

Lab Sample ID: 280-65034-4
Client Matrix: Solid

Date Sampled: 02/02/2015 0955
Date Received: 02/04/2015 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

General Chemistry

Client Sample ID: **J1V3V2**

Lab Sample ID: 280-65034-5
Client Matrix: Solid

Date Sampled: 02/02/2015 0958
Date Received: 02/04/2015 1000

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

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

General Chemistry

Client Sample ID: **J1V3V3**

Lab Sample ID: 280-65034-6
Client Matrix: Solid

Date Sampled: 02/02/2015 1002
Date Received: 02/04/2015 1000

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

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

General Chemistry

Client Sample ID: **J1V3V4**

Lab Sample ID: 280-65034-7
Client Matrix: Solid

Date Sampled: 02/02/2015 1005
Date Received: 02/04/2015 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

General Chemistry

Client Sample ID: **J1V3V5**

Lab Sample ID: 280-65034-8
Client Matrix: Solid

Date Sampled: 02/02/2015 1011
Date Received: 02/04/2015 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

General Chemistry

Client Sample ID: **J1V3V6**

Lab Sample ID: 280-65034-9
Client Matrix: Solid

Date Sampled: 02/02/2015 1015
Date Received: 02/04/2015 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

General Chemistry

Client Sample ID: **J1V3V7**

Lab Sample ID: 280-65034-10
Client Matrix: Solid

Date Sampled: 02/02/2015 1018
Date Received: 02/04/2015 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1V3V8**

Lab Sample ID: 280-65034-11
Client Matrix: Solid

Date Sampled: 02/02/2015 1022
Date Received: 02/04/2015 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

General Chemistry

Client Sample ID: **J1V3V9**

Lab Sample ID: 280-65034-12
Client Matrix: Solid

Date Sampled: 02/02/2015 1025
Date Received: 02/04/2015 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

General Chemistry

Client Sample ID: **J1V3W0**

Lab Sample ID: 280-65034-13
Client Matrix: Solid

Date Sampled: 02/02/2015 0943
Date Received: 02/04/2015 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1V3W1**

Lab Sample ID: 280-65034-14
Client Matrix: Solid

Date Sampled: 02/02/2015 0940
Date Received: 02/04/2015 1000

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

Analysis Batch: 280-263139 Analysis Date: 02/05/2015 1134 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Surrogate Recovery Report

8270C Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPH %Rec	TBP %Rec
280-65034-1	J1V3T8	76	84	83	87	78	74
280-65034-2	J1V3T9	81	91	88	91	84	83
280-65034-3	J1V3V0	78	88	85	89	82	76
280-65034-4	J1V3V1	81	86	84	89	81	78
280-65034-5	J1V3V2	78	86	85	88	82	75
280-65034-6	J1V3V3	78	88	86	89	81	74
280-65034-7	J1V3V4	79	86	85	89	83	73
280-65034-8	J1V3V5	75	81	81	83	80	75
280-65034-9	J1V3V6	76	84	82	87	78	75
280-65034-10	J1V3V7	76	83	82	85	81	70
280-65034-11	J1V3V8	77	85	84	87	79	73
280-65034-12	J1V3V9	78	88	86	89	83	79
280-65034-13	J1V3W0	76	86	82	87	78	73
MB 280-263101/1-A		80	85	86	87	82	77
LCS 280-263101/2-A		76	85	84	85	81	89
280-65034-1 MS	J1V3T8 MS	79	87	86	90	79	86
280-65034-1 MSD	J1V3T8 MSD	78	83	82	85	84	89

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl	50-120
2FP = 2-Fluorophenol	53-120
NBZ = Nitrobenzene-d5	50-120
PHL = Phenol-d5	52-120
TPH = Terphenyl-d14	55-120
TBP = 2,4,6-Tribromophenol	51-120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Surrogate Recovery Report

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
280-65034-1	J1V3T8	81	76
280-65034-2	J1V3T9	82	80
280-65034-3	J1V3V0	87	83
280-65034-4	J1V3V1	88	82
280-65034-5	J1V3V2	85	80
280-65034-6	J1V3V3	80	77
280-65034-7	J1V3V4	87	82
280-65034-8	J1V3V5	81	75
280-65034-9	J1V3V6	85	81
280-65034-10	J1V3V7	88	82
280-65034-11	J1V3V8	85	81
280-65034-12	J1V3V9	83	82
280-65034-13	J1V3W0	86	81
MB 280-263124/1-A		86	79
LCS 280-263124/2-A		86	82
280-65034-2 MS	J1V3T9 MS	81	80
280-65034-2 MSD	J1V3T9 MSD	72	85

Surrogate	Acceptance Limits
DCB = Decachlorobiphenyl	59-130
TCX = Tetrachloro-m-xylene	53-128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Surrogate Recovery Report

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

Client Matrix: Solid

Lab Sample ID	Client Sample ID	OTPH %Rec
280-65034-1	J1V3T8	92
280-65034-2	J1V3T9	91
280-65034-3	J1V3V0	87
280-65034-4	J1V3V1	89
280-65034-5	J1V3V2	90
280-65034-6	J1V3V3	90
280-65034-7	J1V3V4	89
280-65034-8	J1V3V5	89
280-65034-9	J1V3V6	89
280-65034-10	J1V3V7	88
280-65034-11	J1V3V8	89
280-65034-12	J1V3V9	88
280-65034-13	J1V3W0	90
MB 280-263129/1-A		90
LCS 280-263129/2-A		88
LCSD 280-263129/3-A		91
280-65034-3 MS	J1V3V0 MS	89
280-65034-3 MSD	J1V3V0 MSD	85

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	49-115

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Method Blank - Batch: 280-263101

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-263101/1-A	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Client Matrix:	Solid	Prep Batch:	280-263101	Lab File ID:	G6_16383.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	02/09/2015 1214	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	10	U	10	320
Acenaphthylene	17	U	17	320
Anthracene	17	U	17	320
Benzo[a]anthracene	20	U	20	320
Benzo[a]pyrene	20	U	20	320
Benzo[b]fluoranthene	26	U	26	320
Benzo[ghi]perylene	16	U	16	320
Benzo[k]fluoranthene	39	U	39	320
Bis(2-chloroethoxy)methane	23	U	23	320
Bis(2-chloroethyl)ether	16	U	16	320
bis (2-chloroisopropyl) ether	23	U	23	320
Bis(2-ethylhexyl) phthalate	45	U	45	320
4-Bromophenyl phenyl ether	19	U	19	320
Butyl benzyl phthalate	42	U	42	320
Carbazole	35	U	35	320
4-Chloroaniline	80	U	80	320
4-Chloro-3-methylphenol	65	U	65	320
2-Chloronaphthalene	9.8	U	9.8	320
2-Chlorophenol	21	U	21	320
4-Chlorophenyl phenyl ether	21	U	21	320
Chrysene	26	U	26	320
Dibenz(a,h)anthracene	19	U	19	320
Dibenzofuran	20	U	20	320
1,2-Dichlorobenzene	22	U	22	320
1,3-Dichlorobenzene	12	U	12	320
1,4-Dichlorobenzene	13	U	13	320
3,3'-Dichlorobenzidine	88	U	88	650
2,4-Dichlorophenol	9.8	U	9.8	320
Diethyl phthalate	25	U	25	320
2,4-Dimethylphenol	65	U	65	320
Dimethyl phthalate	23	U	23	320
Di-n-butyl phthalate	28	U	28	320
4,6-Dinitro-2-methylphenol	320	U	320	650
2,4-Dinitrophenol	330	U	330	810
2,4-Dinitrotoluene	65	U	65	320
2,6-Dinitrotoluene	27	U	27	320
Di-n-octyl phthalate	14	U	14	320
Fluoranthene	35	U	35	320
Fluorene	18	U	18	320
Hexachlorobenzene	28	U	28	320
Hexachlorobutadiene	9.8	U	9.8	320
Hexachlorocyclopentadiene	49	U	49	320
Hexachloroethane	21	U	21	320
Indeno[1,2,3-cd]pyrene	22	U	22	320
Isophorone	17	U	17	320

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Method Blank - Batch: 280-263101

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-263101/1-A	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Client Matrix:	Solid	Prep Batch:	280-263101	Lab File ID:	G6_16383.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	02/09/2015 1214	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	19	U	19	320
2-Methylphenol	13	U	13	320
3 & 4 Methylphenol	32	U	32	320
Naphthalene	30	U	30	320
2-Nitroaniline	49	U	49	320
3-Nitroaniline	72	U	72	320
4-Nitroaniline	71	U	71	320
Nitrobenzene	22	U	22	320
2-Nitrophenol	9.8	U	9.8	320
4-Nitrophenol	95	U	95	650
N-Nitrosodi-n-propylamine	30	U	30	320
N-Nitrosodiphenylamine	21	U	21	320
Pentachlorophenol	320	U	320	650
Phenanthrene	17	U	17	320
Phenol	18	U	18	320
Pyrene	12	U	12	320
1,2,4-Trichlorobenzene	27	U	27	320
2,4,5-Trichlorophenol	9.8	U	9.8	320
2,4,6-Trichlorophenol	9.8	U	9.8	320

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	80	50 - 120
2-Fluorophenol	85	53 - 120
Nitrobenzene-d5	86	50 - 120
Phenol-d5	87	52 - 120
Terphenyl-d14	82	55 - 120
2,4,6-Tribromophenol	77	51 - 120

Method Blank TICs- Batch: 280-263101

Cas Number	Analyte	RT	Est. Result (ug/K	Qual
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Lab Control Sample - Batch: 280-263101

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-263101/2-A	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Client Matrix:	Solid	Prep Batch:	280-263101	Lab File ID:	G6_16384.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	33.0 g
Analysis Date:	02/09/2015 1240	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2420	1960	81	60 - 120	
Acenaphthylene	2420	1940	80	64 - 120	
Anthracene	2420	2010	83	63 - 120	
Benzo[a]anthracene	2420	2030	84	65 - 120	
Benzo[a]pyrene	2420	2050	85	59 - 120	
Benzo[b]fluoranthene	2420	2020	83	47 - 129	
Benzo[ghi]perylene	2420	2100	87	55 - 126	
Benzo[k]fluoranthene	2420	2130	88	48 - 130	
Bis(2-chloroethoxy)methane	2420	2060	85	56 - 120	
Bis(2-chloroethyl)ether	2420	2120	87	51 - 120	
bis (2-chloroisopropyl) ether	2420	1850	76	49 - 120	
Bis(2-ethylhexyl) phthalate	2420	2190	90	65 - 120	
4-Bromophenyl phenyl ether	2420	2020	83	64 - 120	
Butyl benzyl phthalate	2420	2180	90	65 - 120	
Carbazole	2420	2070	85	64 - 120	
4-Chloroaniline	2420	1070	44	28 - 120	
4-Chloro-3-methylphenol	2420	2240	92	63 - 120	
2-Chloronaphthalene	2420	1900	78	59 - 120	
2-Chlorophenol	2420	1980	82	57 - 120	
4-Chlorophenyl phenyl ether	2420	2000	83	64 - 120	
Chrysene	2420	2080	86	64 - 120	
Dibenz(a,h)anthracene	2420	2030	84	50 - 133	
Dibenzofuran	2420	1970	81	61 - 120	
1,2-Dichlorobenzene	2420	1870	77	53 - 120	
1,3-Dichlorobenzene	2420	1870	77	52 - 120	
1,4-Dichlorobenzene	2420	1870	77	52 - 120	
3,3'-Dichlorobenzidine	2420	1420	59	30 - 120	
2,4-Dichlorophenol	2420	1950	81	60 - 120	
Diethyl phthalate	2420	2130	88	66 - 120	
2,4-Dimethylphenol	2420	2080	86	54 - 120	
Dimethyl phthalate	2420	2030	84	65 - 120	
Di-n-butyl phthalate	2420	2210	91	67 - 120	
4,6-Dinitro-2-methylphenol	4850	4010	83	57 - 120	
2,4-Dinitrophenol	4850	3610	75	46 - 120	
2,4-Dinitrotoluene	2420	2150	89	68 - 120	
2,6-Dinitrotoluene	2420	2110	87	64 - 120	
Di-n-octyl phthalate	2420	2110	87	66 - 120	
Fluoranthene	2420	2110	87	66 - 120	
Fluorene	2420	1970	81	64 - 120	
Hexachlorobenzene	2420	2020	83	62 - 120	
Hexachlorobutadiene	2420	1860	77	53 - 120	
Hexachlorocyclopentadiene	2420	1620	67	47 - 120	
Hexachloroethane	2420	1890	78	51 - 120	
Indeno[1,2,3-cd]pyrene	2420	2110	87	63 - 120	
Isophorone	2420	2020	83	56 - 120	
2-Methylnaphthalene	2420	1940	80	57 - 120	

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Lab Control Sample - Batch: 280-263101

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-263101/2-A	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Client Matrix:	Solid	Prep Batch:	280-263101	Lab File ID:	G6_16384.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	33.0 g
Analysis Date:	02/09/2015 1240	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Methylphenol	2420	2130	88	56 - 120	
3 & 4 Methylphenol	2420	2100	87	53 - 120	
Naphthalene	2420	2010	83	57 - 120	
2-Nitroaniline	2420	2280	94	63 - 120	
3-Nitroaniline	2420	1520	63	47 - 120	
4-Nitroaniline	2420	1990	82	64 - 120	
Nitrobenzene	2420	2120	87	54 - 120	
2-Nitrophenol	2420	2070	85	56 - 120	
4-Nitrophenol	4850	4700	97	63 - 121	
N-Nitrosodi-n-propylamine	2420	2120	87	51 - 120	
N-Nitrosodiphenylamine	2420	2050	85	61 - 120	
Pentachlorophenol	4850	4000	82	56 - 120	
Phenanthrene	2420	2050	85	64 - 120	
Phenol	2420	2180	90	56 - 120	
Pyrene	2420	2080	86	64 - 120	
1,2,4-Trichlorobenzene	2420	1830	75	52 - 120	
2,4,5-Trichlorophenol	2420	1960	81	64 - 120	
2,4,6-Trichlorophenol	2420	1950	80	61 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	76	50 - 120
2-Fluorophenol	85	53 - 120
Nitrobenzene-d5	84	50 - 120
Phenol-d5	85	52 - 120
Terphenyl-d14	81	55 - 120
2,4,6-Tribromophenol	89	51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-263101

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-65034-1	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Client Matrix:	Solid	Prep Batch:	280-263101	Lab File ID:	G6_16391.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	02/09/2015 1546			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-65034-1	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Client Matrix:	Solid	Prep Batch:	280-263101	Lab File ID:	G6_16392.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	02/09/2015 1613			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	82	84	60 - 120	2	30		
Acenaphthylene	82	81	64 - 120	0	30		
Anthracene	82	85	63 - 120	3	30		
Benzo[a]anthracene	83	86	65 - 120	4	30		
Benzo[a]pyrene	83	87	59 - 120	4	30		
Benzo[b]fluoranthene	84	87	47 - 129	3	44		
Benzo[ghi]perylene	84	87	55 - 126	3	31		
Benzo[k]fluoranthene	87	89	48 - 130	2	30		
Bis(2-chloroethoxy)methane	86	83	56 - 120	3	30		
Bis(2-chloroethyl)ether	87	83	51 - 120	5	30		
bis (2-chloroisopropyl) ether	78	75	49 - 120	4	30		
Bis(2-ethylhexyl) phthalate	87	93	65 - 120	7	30		
4-Bromophenyl phenyl ether	83	85	64 - 120	2	30		
Butyl benzyl phthalate	86	90	65 - 120	5	30		
Carbazole	84	89	64 - 120	5	30		
4-Chloroaniline	53	51	28 - 120	3	30		
4-Chloro-3-methylphenol	92	91	63 - 120	1	30		
2-Chloronaphthalene	80	80	59 - 120	0	30		
2-Chlorophenol	84	81	57 - 120	4	30		
4-Chlorophenyl phenyl ether	82	84	64 - 120	3	30		
Chrysene	84	88	64 - 120	5	35		
Dibenz(a,h)anthracene	83	87	50 - 133	4	30		
Dibenzofuran	82	83	61 - 120	1	30		
1,2-Dichlorobenzene	78	75	53 - 120	4	30		
1,3-Dichlorobenzene	77	74	52 - 120	4	32		
1,4-Dichlorobenzene	77	74	52 - 120	4	30		
3,3'-Dichlorobenzidine	59	61	30 - 120	5	30		
2,4-Dichlorophenol	82	78	60 - 120	5	30		
Diethyl phthalate	85	90	66 - 120	6	30		
2,4-Dimethylphenol	88	84	54 - 120	5	30		
Dimethyl phthalate	83	86	65 - 120	3	30		
Di-n-butyl phthalate	88	92	67 - 120	4	30		
4,6-Dinitro-2-methylphenol	86	90	57 - 120	5	30		

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-263101

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-65034-1	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Client Matrix:	Solid	Prep Batch:	280-263101	Lab File ID:	G6_16391.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	02/09/2015 1546			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-65034-1	Analysis Batch:	280-263563	Instrument ID:	SMS_G6
Client Matrix:	Solid	Prep Batch:	280-263101	Lab File ID:	G6_16392.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	02/09/2015 1613			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1320			Injection Volume:	0.5 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2,4-Dinitrophenol	72	77	46 - 120	6	34		
2,4-Dinitrotoluene	85	91	68 - 120	7	30		
2,6-Dinitrotoluene	85	85	64 - 120	0	30		
Di-n-octyl phthalate	81	86	66 - 120	6	30		
Fluoranthene	86	88	66 - 120	3	30		
Fluorene	83	84	64 - 120	1	30		
Hexachlorobenzene	83	85	62 - 120	3	30		
Hexachlorobutadiene	75	73	53 - 120	3	30		
Hexachlorocyclopentadiene	64	63	47 - 120	2	30		
Hexachloroethane	79	74	51 - 120	6	30		
Indeno[1,2,3-cd]pyrene	78	84	63 - 120	8	30		
Isophorone	85	82	56 - 120	3	30		
2-Methylnaphthalene	82	78	57 - 120	4	30		
2-Methylphenol	90	87	56 - 120	4	30		
3 & 4 Methylphenol	89	85	53 - 120	5	30		
Naphthalene	83	81	57 - 120	3	30		
2-Nitroaniline	93	96	63 - 120	4	30		
3-Nitroaniline	70	72	47 - 120	2	30		
4-Nitroaniline	82	88	64 - 120	6	30		
Nitrobenzene	88	85	54 - 120	3	30		
2-Nitrophenol	85	83	56 - 120	2	30		
4-Nitrophenol	93	97	63 - 121	4	30		
N-Nitrosodi-n-propylamine	89	85	51 - 120	5	30		
N-Nitrosodiphenylamine	84	87	61 - 120	4	36		
Pentachlorophenol	80	83	56 - 120	3	30		
Phenanthrene	83	87	64 - 120	4	30		
Phenol	93	88	56 - 120	5	30		
Pyrene	84	88	64 - 120	5	38		
1,2,4-Trichlorobenzene	76	74	52 - 120	3	30		
2,4,5-Trichlorophenol	81	81	64 - 120	1	30		
2,4,6-Trichlorophenol	79	80	61 - 120	1	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	79	78	50 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorophenol	87	83	53 - 120
Nitrobenzene-d5	86	82	50 - 120
Phenol-d5	90	85	52 - 120
Terphenyl-d14	79	84	55 - 120
2,4,6-Tribromophenol	86	89	51 - 120

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-263101

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-65034-1	Units:	ug/Kg	MSD Lab Sample ID:	280-65034-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	02/09/2015 1546			Analysis Date:	02/09/2015 1613
Prep Date:	02/05/2015 1320			Prep Date:	02/05/2015 1320
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Acenaphthene	10	U	2780	2780	2290	2340
Acenaphthylene	17	U	2780	2780	2270	2270
Anthracene	17	U	2780	2780	2290	2360
Benzo[a]anthracene	20	U	2780	2780	2300	2400
Benzo[a]pyrene	20	U	2780	2780	2310	2410
Benzo[b]fluoranthene	27	U	2780	2780	2340	2420
Benzo[ghi]perylene	16	U	2780	2780	2340	2420
Benzo[k]fluoranthene	41	U	2780	2780	2420	2470
Bis(2-chloroethoxy)methane	23	U	2780	2780	2390	2310
Bis(2-chloroethyl)ether	17	U	2780	2780	2420	2300
bis (2-chloroisopropyl) ether	23	U	2780	2780	2170	2090
Bis(2-ethylhexyl) phthalate	47	U	2780	2780	2430	2600
4-Bromophenyl phenyl ether	19	U	2780	2780	2310	2360
Butyl benzyl phthalate	44	U	2780	2780	2390	2510
Carbazole	37	U	2780	2780	2340	2470
4-Chloroaniline	83	U	2780	2780	1480	1430
4-Chloro-3-methylphenol	67	U	2780	2780	2550	2530
2-Chloronaphthalene	10	U	2780	2780	2220	2220
2-Chlorophenol	21	U	2780	2780	2350	2250
4-Chlorophenyl phenyl ether	21	U	2780	2780	2280	2340
Chrysene	28	U	2780	2780	2330	2450
Dibenz(a,h)anthracene	19	U	2780	2780	2320	2410
Dibenzofuran	20	U	2780	2780	2290	2300
1,2-Dichlorobenzene	22	U	2780	2780	2170	2080
1,3-Dichlorobenzene	12	U	2780	2780	2130	2050
1,4-Dichlorobenzene	14	U	2780	2780	2130	2060
3,3'-Dichlorobenzidine	92	U	2780	2780	1630	1700
2,4-Dichlorophenol	10	U	2780	2780	2270	2160
Diethyl phthalate	26	U	2780	2780	2360	2500
2,4-Dimethylphenol	67	U	2780	2780	2440	2320
Dimethyl phthalate	23	U	2780	2780	2300	2380
Di-n-butyl phthalate	30	U	2780	2780	2450	2550
4,6-Dinitro-2-methylphenol	340	U	5560	5560	4780	5010
2,4-Dinitrophenol	340	U	5560	5560	4020	4270
2,4-Dinitrotoluene	67	U	2780	2780	2350	2520
2,6-Dinitrotoluene	29	U	2780	2780	2360	2360
Di-n-octyl phthalate	15	U	2780	2780	2250	2390
Fluoranthene	37	U	2780	2780	2380	2460
Fluorene	18	U	2780	2780	2310	2340
Hexachlorobenzene	30	U	2780	2780	2320	2370
Hexachlorobutadiene	10	U	2780	2780	2090	2020
Hexachlorocyclopentadiene	51	U	2780	2780	1780	1750
Hexachloroethane	22	U	2780	2780	2190	2050

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-263101

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-65034-1	Units:	ug/Kg	MSD Lab Sample ID:	280-65034-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	02/09/2015 1546			Analysis Date:	02/09/2015 1613
Prep Date:	02/05/2015 1320			Prep Date:	02/05/2015 1320
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Indeno[1,2,3-cd]pyrene	22	U	2780	2780	2160	2340
Isophorone	17	U	2780	2780	2350	2280
2-Methylnaphthalene	19	U	2780	2780	2270	2180
2-Methylphenol	13	U	2780	2780	2510	2410
3 & 4 Methylphenol	34	U	2780	2780	2480	2350
Naphthalene	32	U	2780	2780	2310	2240
2-Nitroaniline	51	U	2780	2780	2580	2680
3-Nitroaniline	74	U	2780	2780	1950	1990
4-Nitroaniline	74	U	2780	2780	2290	2440
Nitrobenzene	22	U	2780	2780	2440	2370
2-Nitrophenol	10	U	2780	2780	2360	2320
4-Nitrophenol	99	U	5560	5560	5170	5370
N-Nitrosodi-n-propylamine	32	U	2780	2780	2480	2360
N-Nitrosodiphenylamine	21	U	2780	2780	2340	2420
Pentachlorophenol	340	U	5560	5560	4470	4610
Phenanthrene	17	U	2780	2780	2300	2410
Phenol	18	U	2780	2780	2590	2450
Pyrene	12	U	2780	2780	2330	2440
1,2,4-Trichlorobenzene	29	U	2780	2780	2110	2050
2,4,5-Trichlorophenol	10	U	2780	2780	2250	2260
2,4,6-Trichlorophenol	10	U	2780	2780	2210	2230

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Method Blank - Batch: 280-263124

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-263124/1-A	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Client Matrix:	Solid	Prep Batch:	280-263124	Lab File ID:	02061523.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	02/06/2015 2001	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	02/05/2015 1400			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	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	Acceptance Limits
Decachlorobiphenyl	86	59 - 130
Tetrachloro-m-xylene	79	53 - 128

Lab Control Sample - Batch: 280-263124

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-263124/2-A	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Client Matrix:	Solid	Prep Batch:	280-263124	Lab File ID:	02061524.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.9 g
Analysis Date:	02/06/2015 2024	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	02/05/2015 1400			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	30.4	25.4	83	54 - 132	
Aroclor 1260	30.4	27.5	90	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	86	59 - 130
Tetrachloro-m-xylene	82	53 - 128

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-263124

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-65034-2	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Client Matrix:	Solid	Prep Batch:	280-263124	Lab File ID:	02061527.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.9 g
Analysis Date:	02/06/2015 2134			Final Weight/Volume:	5 mL
Prep Date:	02/05/2015 1400			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-65034-2	Analysis Batch:	280-263251	Instrument ID:	SGC_W
Client Matrix:	Solid	Prep Batch:	280-263124	Lab File ID:	02061528.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	02/06/2015 2158			Final Weight/Volume:	5 mL
Prep Date:	02/05/2015 1400			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	85	90	54 - 132	10	26		
Aroclor 1260	92	82	62 - 129	8	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	81	72	59 - 130
Tetrachloro-m-xylene	80	85	53 - 128

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-263124

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-65034-2	Units:	ug/Kg	MSD Lab Sample ID:	280-65034-2
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	02/06/2015 2134			Analysis Date:	02/06/2015 2158
Prep Date:	02/05/2015 1400			Prep Date:	02/05/2015 1400
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Aroclor 1016	2.8	U	33.5	34.7	28.3	31.3
Aroclor 1260	2.6	U	33.5	34.7	30.8	28.6

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Method Blank - Batch: 280-263129

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-263129/1-A	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Client Matrix:	Solid	Prep Batch:	280-263129	Lab File ID:	02060028.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.5 g
Analysis Date:	02/06/2015 2204	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	950	U	950	3800
C10-C28	650	U	650	3800

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

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-263129

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-263129/2-A	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Client Matrix:	Solid	Prep Batch:	280-263129	Lab File ID:	02060029.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	02/06/2015 2233	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-263129/3-A	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Client Matrix:	Solid	Prep Batch:	280-263129	Lab File ID:	02060030.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.4 g
Analysis Date:	02/06/2015 2301	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	92	96	57 - 115	2	23		
C10-C28	89	93	53 - 115	3	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	88	91	49 - 115

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-263129

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-263129/2-A	Units:	ug/Kg	LCSD Lab Sample ID:	LCSD 280-263129/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	02/06/2015 2233			Analysis Date:	02/06/2015 2301
Prep Date:	02/05/2015 1550			Prep Date:	02/05/2015 1550
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
C10-C36	65800	61700	60600	59100
C10-C28	65800	61700	58800	57200

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-263129

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-65034-3	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Client Matrix:	Solid	Prep Batch:	280-263129	Lab File ID:	02060034.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.2 g
Analysis Date:	02/07/2015 0054			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-65034-3	Analysis Batch:	280-263287	Instrument ID:	SGC_U
Client Matrix:	Solid	Prep Batch:	280-263129	Lab File ID:	02060035.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.1 g
Analysis Date:	02/07/2015 0122			Final Weight/Volume:	1 mL
Prep Date:	02/05/2015 1550			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	93	90	57 - 115	3	23		
C10-C28	91	88	56 - 115	3	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	89	85	49 - 115

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-263129

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-65034-3	Units:	ug/Kg	MSD Lab Sample ID:	280-65034-3
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	02/07/2015 0054			Analysis Date:	02/07/2015 0122
Prep Date:	02/05/2015 1550			Prep Date:	02/05/2015 1550
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
C10-C36	990	U	65400	65600	61100	59200
C10-C28	670	U	65400	65600	59300	57400

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Method Blank - Batch: 280-263130

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-263130/1-A	Analysis Batch:	280-263579	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	02/06/2015 1602	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Cadmium	0.041	U	0.041	0.20

Method Blank - Batch: 280-263130

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-263130/1-A	Analysis Batch:	280-263701	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	02/09/2015 1435	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				
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	0.147	B	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Calcium	15.48	B	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.694	B	0.22	1.0
Iron	3.8	U	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	4.54	B	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	0.408	B	0.40	1.0

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Lab Control Sample - Batch: 280-263130

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-263130/2-A	Analysis Batch:	280-263579	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	02/06/2015 1605	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	10.0	9.16	92	87 - 110	

Lab Control Sample - Batch: 280-263130

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-263130/2-A	Analysis Batch:	280-263701	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	02/09/2015 1437	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	192.1	96	82 - 116	
Antimony	50.0	49.41	99	82 - 110	
Arsenic	100	92.90	93	85 - 110	
Barium	200	189.8	95	87 - 112	
Beryllium	5.00	4.79	96	84 - 114	
Boron	100	93.50	94	80 - 120	
Calcium	5000	4772	95	82 - 114	
Chromium	20.0	19.37	97	84 - 114	
Cobalt	50.0	46.95	94	87 - 110	
Copper	25.0	23.54	94	88 - 110	
Iron	100	97.62	98	87 - 120	
Lead	50.0	48.06	96	86 - 110	
Magnesium	5000	4737	95	90 - 110	
Manganese	50.0	47.47	95	88 - 110	
Molybdenum	100	97.09	97	86 - 110	
Nickel	50.0	46.65	93	87 - 110	
Potassium	5000	4799	96	89 - 110	
Selenium	200	191.6	96	83 - 110	
Silicon	1000	124.0	12	10 - 70	
Silver	5.00	4.96	99	87 - 114	
Sodium	5000	4859	97	90 - 112	
Vanadium	50.0	48.01	96	88 - 110	
Zinc	50.0	48.01	96	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Matrix Spike - Batch: 280-263130

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-65034-1	Analysis Batch:	280-263579	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.15 g
Analysis Date:	02/06/2015 1615	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.13	B	9.13	7.67	83	40 - 130	

Matrix Spike - Batch: 280-263130

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-65034-1	Analysis Batch:	280-263701	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.15 g
Analysis Date:	02/09/2015 1448	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	4540		183	6860	1273	50 - 200	4
Arsenic	2.2		91.3	73.94	79	76 - 111	
Barium	48.6		183	207.7	87	52 - 159	
Boron	0.88	U	91.3	73.82	81	80 - 120	
Calcium	6200		4560	13020	150	43 - 165	
Chromium	3.9		18.3	20.75	92	70 - 200	
Iron	24500		91.3	29990	5969	70 - 200	4
Magnesium	4140		4560	9518	118	64 - 145	
Manganese	296		45.6	418.5	267	40 - 200	4
Molybdenum	0.23	U	91.3	76.16	83	75 - 103	
Nickel	8.6		45.6	46.15	82	61 - 126	
Potassium	676		4560	4825	91	56 - 172	
Selenium	0.77	U	183	149.9	82	76 - 104	
Silicon	122		913	362.6	26	20 - 200	
Silver	0.14	U	4.56	4.07	89	75 - 141	
Sodium	280		4560	4638	96	78 - 111	
Zinc	44.9		45.6	88.91	96	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Matrix Spike - Batch: 280-263130

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-65034-1	Analysis Batch:	280-263701	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.15 g
Analysis Date:	02/09/2015 1553	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	1.7	U	45.6	29.75	65	20 - 200	
Beryllium	0.22	B	4.56	4.70	98	72 - 105	
Cobalt	9.9		45.6	56.29	102	72 - 106	
Copper	16.7		22.8	40.57	105	37 - 187	
Lead	3.4		45.6	49.60	101	70 - 200	
Vanadium	77.3		45.6	137.7	132	50 - 169	

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Duplicate - Batch: 280-263130

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-65034-1	Analysis Batch:	280-263579	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-263130	Lab File ID:	26a020615b.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.16 g
Analysis Date:	02/06/2015 1612	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.13	B	0.144	11	30	B

Duplicate - Batch: 280-263130

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-65034-1	Analysis Batch:	280-263701	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.16 g
Analysis Date:	02/09/2015 1445	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	4540		5017	10	40	
Arsenic	2.2		2.48	12	30	
Barium	48.6		50.99	5	30	
Boron	0.88	U	0.89	NC	30	U
Calcium	6200		6464	4	30	
Chromium	3.9		3.75	4	40	
Iron	24500		25810	5	40	
Magnesium	4140		4296	4	30	
Manganese	296		315.0	6	40	
Molybdenum	0.23	U	0.24	NC	30	U
Nickel	8.6		9.12	5	30	
Potassium	676		696.8	3	40	
Selenium	0.77	U	0.78	NC	30	U
Silicon	122		131.5	7	40	
Silver	0.14	U	0.14	NC	30	U
Sodium	280		371.6	28	30	
Zinc	44.9		44.76	0.4	40	

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Duplicate - Batch: 280-263130

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-65034-1	Analysis Batch:	280-263701	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-263130	Lab File ID:	26a020915.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.16 g
Analysis Date:	02/09/2015 1550	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/05/2015 1445				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Antimony	1.7	U	2.83	NC	40	
Beryllium	0.22	B	0.199	8	30	B
Cobalt	9.9		10.07	1	30	
Copper	16.7		17.56	5	30	
Lead	3.4		4.18	21	40	
Vanadium	77.3		75.01	3	30	

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Method Blank - Batch: 280-263086

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-263086/1-A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	02/05/2015 1525	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-263086

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-263086/2-A	Analysis Batch:	280-263638	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	02/05/2015 1528	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.453	109	87 - 111	

Matrix Spike - Batch: 280-263086

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-65034-1	Analysis Batch:	280-263638	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.65 g
Analysis Date:	02/05/2015 1534	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0055	U	0.404	0.424	105	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Duplicate - Batch: 280-263086

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-65034-1	Analysis Batch:	280-263638	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-263086	Lab File ID:	150205aa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.63 g
Analysis Date:	02/05/2015 1532	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	02/05/2015 1105				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0055	U	0.0055	NC	20	U

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

Duplicate - Batch: 280-263139

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-65034-1	Analysis Batch:	280-263139	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	02/05/2015 1134	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	4.7	5.0	6	20	

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-263101					
LCS 280-263101/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-263101/1-A	Method Blank	T	Solid	3550C	
280-65034-1	J1V3T8	T	Solid	3550C	
280-65034-1MS	Matrix Spike	T	Solid	3550C	
280-65034-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-65034-2	J1V3T9	T	Solid	3550C	
280-65034-3	J1V3V0	T	Solid	3550C	
280-65034-4	J1V3V1	T	Solid	3550C	
280-65034-5	J1V3V2	T	Solid	3550C	
280-65034-6	J1V3V3	T	Solid	3550C	
280-65034-7	J1V3V4	T	Solid	3550C	
280-65034-8	J1V3V5	T	Solid	3550C	
280-65034-9	J1V3V6	T	Solid	3550C	
280-65034-10	J1V3V7	T	Solid	3550C	
280-65034-11	J1V3V8	T	Solid	3550C	
280-65034-12	J1V3V9	T	Solid	3550C	
280-65034-13	J1V3W0	T	Solid	3550C	
Analysis Batch:280-263563					
LCS 280-263101/2-A	Lab Control Sample	T	Solid	8270C	280-263101
MB 280-263101/1-A	Method Blank	T	Solid	8270C	280-263101
280-65034-1	J1V3T8	T	Solid	8270C	280-263101
280-65034-1MS	Matrix Spike	T	Solid	8270C	280-263101
280-65034-1MSD	Matrix Spike Duplicate	T	Solid	8270C	280-263101
280-65034-2	J1V3T9	T	Solid	8270C	280-263101
280-65034-3	J1V3V0	T	Solid	8270C	280-263101
280-65034-4	J1V3V1	T	Solid	8270C	280-263101
280-65034-5	J1V3V2	T	Solid	8270C	280-263101
280-65034-6	J1V3V3	T	Solid	8270C	280-263101
280-65034-7	J1V3V4	T	Solid	8270C	280-263101
280-65034-8	J1V3V5	T	Solid	8270C	280-263101
280-65034-9	J1V3V6	T	Solid	8270C	280-263101
280-65034-10	J1V3V7	T	Solid	8270C	280-263101
280-65034-11	J1V3V8	T	Solid	8270C	280-263101
280-65034-12	J1V3V9	T	Solid	8270C	280-263101
280-65034-13	J1V3W0	T	Solid	8270C	280-263101

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-263124					
LCS 280-263124/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-263124/1-A	Method Blank	T	Solid	3550C	
280-65034-1	J1V3T8	T	Solid	3550C	
280-65034-2	J1V3T9	T	Solid	3550C	
280-65034-2MS	Matrix Spike	T	Solid	3550C	
280-65034-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-65034-3	J1V3V0	T	Solid	3550C	
280-65034-4	J1V3V1	T	Solid	3550C	
280-65034-5	J1V3V2	T	Solid	3550C	
280-65034-6	J1V3V3	T	Solid	3550C	
280-65034-7	J1V3V4	T	Solid	3550C	
280-65034-8	J1V3V5	T	Solid	3550C	
280-65034-9	J1V3V6	T	Solid	3550C	
280-65034-10	J1V3V7	T	Solid	3550C	
280-65034-11	J1V3V8	T	Solid	3550C	
280-65034-12	J1V3V9	T	Solid	3550C	
280-65034-13	J1V3W0	T	Solid	3550C	
Prep Batch: 280-263129					
LCS 280-263129/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-263129/3-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-263129/1-A	Method Blank	T	Solid	3550C	
280-65034-1	J1V3T8	T	Solid	3550C	
280-65034-2	J1V3T9	T	Solid	3550C	
280-65034-3	J1V3V0	T	Solid	3550C	
280-65034-3MS	Matrix Spike	T	Solid	3550C	
280-65034-3MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-65034-4	J1V3V1	T	Solid	3550C	
280-65034-5	J1V3V2	T	Solid	3550C	
280-65034-6	J1V3V3	T	Solid	3550C	
280-65034-7	J1V3V4	T	Solid	3550C	
280-65034-8	J1V3V5	T	Solid	3550C	
280-65034-9	J1V3V6	T	Solid	3550C	
280-65034-10	J1V3V7	T	Solid	3550C	
280-65034-11	J1V3V8	T	Solid	3550C	
280-65034-12	J1V3V9	T	Solid	3550C	
280-65034-13	J1V3W0	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-263251					
LCS 280-263124/2-A	Lab Control Sample	T	Solid	8082	280-263124
MB 280-263124/1-A	Method Blank	T	Solid	8082	280-263124
280-65034-1	J1V3T8	T	Solid	8082	280-263124
280-65034-2	J1V3T9	T	Solid	8082	280-263124
280-65034-2MS	Matrix Spike	T	Solid	8082	280-263124
280-65034-2MSD	Matrix Spike Duplicate	T	Solid	8082	280-263124
280-65034-3	J1V3V0	T	Solid	8082	280-263124
280-65034-4	J1V3V1	T	Solid	8082	280-263124
280-65034-5	J1V3V2	T	Solid	8082	280-263124
280-65034-6	J1V3V3	T	Solid	8082	280-263124
280-65034-7	J1V3V4	T	Solid	8082	280-263124
280-65034-8	J1V3V5	T	Solid	8082	280-263124
280-65034-9	J1V3V6	T	Solid	8082	280-263124
280-65034-10	J1V3V7	T	Solid	8082	280-263124
280-65034-11	J1V3V8	T	Solid	8082	280-263124
280-65034-12	J1V3V9	T	Solid	8082	280-263124
280-65034-13	J1V3W0	T	Solid	8082	280-263124
Analysis Batch:280-263287					
LCS 280-263129/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-263129
LCSD 280-263129/3-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-263129
MB 280-263129/1-A	Method Blank	T	Solid	NWTPH-Dx	280-263129
280-65034-1	J1V3T8	T	Solid	NWTPH-Dx	280-263129
280-65034-2	J1V3T9	T	Solid	NWTPH-Dx	280-263129
280-65034-3	J1V3V0	T	Solid	NWTPH-Dx	280-263129
280-65034-3MS	Matrix Spike	T	Solid	NWTPH-Dx	280-263129
280-65034-3MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-263129
280-65034-4	J1V3V1	T	Solid	NWTPH-Dx	280-263129
280-65034-5	J1V3V2	T	Solid	NWTPH-Dx	280-263129
280-65034-6	J1V3V3	T	Solid	NWTPH-Dx	280-263129
280-65034-7	J1V3V4	T	Solid	NWTPH-Dx	280-263129
280-65034-8	J1V3V5	T	Solid	NWTPH-Dx	280-263129
280-65034-9	J1V3V6	T	Solid	NWTPH-Dx	280-263129
280-65034-10	J1V3V7	T	Solid	NWTPH-Dx	280-263129
280-65034-11	J1V3V8	T	Solid	NWTPH-Dx	280-263129
280-65034-12	J1V3V9	T	Solid	NWTPH-Dx	280-263129
280-65034-13	J1V3W0	T	Solid	NWTPH-Dx	280-263129

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-263086					
LCS 280-263086/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-263086/1-A	Method Blank	T	Solid	7471A	
280-65034-1	J1V3T8	T	Solid	7471A	
280-65034-1DU	Duplicate	T	Solid	7471A	
280-65034-1MS	Matrix Spike	T	Solid	7471A	
280-65034-2	J1V3T9	T	Solid	7471A	
280-65034-3	J1V3V0	T	Solid	7471A	
280-65034-4	J1V3V1	T	Solid	7471A	
280-65034-5	J1V3V2	T	Solid	7471A	
280-65034-6	J1V3V3	T	Solid	7471A	
280-65034-7	J1V3V4	T	Solid	7471A	
280-65034-8	J1V3V5	T	Solid	7471A	
280-65034-9	J1V3V6	T	Solid	7471A	
280-65034-10	J1V3V7	T	Solid	7471A	
280-65034-11	J1V3V8	T	Solid	7471A	
280-65034-12	J1V3V9	T	Solid	7471A	
280-65034-13	J1V3W0	T	Solid	7471A	
280-65034-14	J1V3W1	T	Solid	7471A	
Prep Batch: 280-263130					
LCS 280-263130/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-263130/1-A	Method Blank	T	Solid	3050B	
280-65034-1	J1V3T8	T	Solid	3050B	
280-65034-1DU	Duplicate	T	Solid	3050B	
280-65034-1MS	Matrix Spike	T	Solid	3050B	
280-65034-2	J1V3T9	T	Solid	3050B	
280-65034-3	J1V3V0	T	Solid	3050B	
280-65034-4	J1V3V1	T	Solid	3050B	
280-65034-5	J1V3V2	T	Solid	3050B	
280-65034-6	J1V3V3	T	Solid	3050B	
280-65034-7	J1V3V4	T	Solid	3050B	
280-65034-8	J1V3V5	T	Solid	3050B	
280-65034-9	J1V3V6	T	Solid	3050B	
280-65034-10	J1V3V7	T	Solid	3050B	
280-65034-11	J1V3V8	T	Solid	3050B	
280-65034-12	J1V3V9	T	Solid	3050B	
280-65034-13	J1V3W0	T	Solid	3050B	
280-65034-14	J1V3W1	T	Solid	3050B	

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-263579					
LCS 280-263130/2-A	Lab Control Sample	T	Solid	6010B	280-263130
MB 280-263130/1-A	Method Blank	T	Solid	6010B	280-263130
280-65034-1	J1V3T8	T	Solid	6010B	280-263130
280-65034-1DU	Duplicate	T	Solid	6010B	280-263130
280-65034-1MS	Matrix Spike	T	Solid	6010B	280-263130
280-65034-2	J1V3T9	T	Solid	6010B	280-263130
280-65034-3	J1V3V0	T	Solid	6010B	280-263130
280-65034-4	J1V3V1	T	Solid	6010B	280-263130
280-65034-5	J1V3V2	T	Solid	6010B	280-263130
280-65034-6	J1V3V3	T	Solid	6010B	280-263130
280-65034-7	J1V3V4	T	Solid	6010B	280-263130
280-65034-8	J1V3V5	T	Solid	6010B	280-263130
280-65034-9	J1V3V6	T	Solid	6010B	280-263130
280-65034-10	J1V3V7	T	Solid	6010B	280-263130
280-65034-11	J1V3V8	T	Solid	6010B	280-263130
280-65034-12	J1V3V9	T	Solid	6010B	280-263130
280-65034-13	J1V3W0	T	Solid	6010B	280-263130
280-65034-14	J1V3W1	T	Solid	6010B	280-263130
Analysis Batch:280-263638					
LCS 280-263086/2-A	Lab Control Sample	T	Solid	7471A	280-263086
MB 280-263086/1-A	Method Blank	T	Solid	7471A	280-263086
280-65034-1	J1V3T8	T	Solid	7471A	280-263086
280-65034-1DU	Duplicate	T	Solid	7471A	280-263086
280-65034-1MS	Matrix Spike	T	Solid	7471A	280-263086
280-65034-2	J1V3T9	T	Solid	7471A	280-263086
280-65034-3	J1V3V0	T	Solid	7471A	280-263086
280-65034-4	J1V3V1	T	Solid	7471A	280-263086
280-65034-5	J1V3V2	T	Solid	7471A	280-263086
280-65034-6	J1V3V3	T	Solid	7471A	280-263086
280-65034-7	J1V3V4	T	Solid	7471A	280-263086
280-65034-8	J1V3V5	T	Solid	7471A	280-263086
280-65034-9	J1V3V6	T	Solid	7471A	280-263086
280-65034-10	J1V3V7	T	Solid	7471A	280-263086
280-65034-11	J1V3V8	T	Solid	7471A	280-263086
280-65034-12	J1V3V9	T	Solid	7471A	280-263086
280-65034-13	J1V3W0	T	Solid	7471A	280-263086
280-65034-14	J1V3W1	T	Solid	7471A	280-263086

Client: Washington Closure Hanford

Job Number: 280-65034-1
Sdg Number: JP0900

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-263701					
LCS 280-263130/2-A	Lab Control Sample	T	Solid	6010B	280-263130
MB 280-263130/1-A	Method Blank	T	Solid	6010B	280-263130
280-65034-1	J1V3T8	T	Solid	6010B	280-263130
280-65034-1DU	Duplicate	T	Solid	6010B	280-263130
280-65034-1MS	Matrix Spike	T	Solid	6010B	280-263130
280-65034-2	J1V3T9	T	Solid	6010B	280-263130
280-65034-3	J1V3V0	T	Solid	6010B	280-263130
280-65034-4	J1V3V1	T	Solid	6010B	280-263130
280-65034-5	J1V3V2	T	Solid	6010B	280-263130
280-65034-6	J1V3V3	T	Solid	6010B	280-263130
280-65034-7	J1V3V4	T	Solid	6010B	280-263130
280-65034-8	J1V3V5	T	Solid	6010B	280-263130
280-65034-9	J1V3V6	T	Solid	6010B	280-263130
280-65034-10	J1V3V7	T	Solid	6010B	280-263130
280-65034-11	J1V3V8	T	Solid	6010B	280-263130
280-65034-12	J1V3V9	T	Solid	6010B	280-263130
280-65034-13	J1V3W0	T	Solid	6010B	280-263130
280-65034-14	J1V3W1	T	Solid	6010B	280-263130

Report Basis
T = Total

General Chemistry				
Analysis Batch:280-263139				
280-65034-1	J1V3T8	T	Solid	D-2216
280-65034-1DU	Duplicate	T	Solid	D-2216
280-65034-2	J1V3T9	T	Solid	D-2216
280-65034-3	J1V3V0	T	Solid	D-2216
280-65034-4	J1V3V1	T	Solid	D-2216
280-65034-5	J1V3V2	T	Solid	D-2216
280-65034-6	J1V3V3	T	Solid	D-2216
280-65034-7	J1V3V4	T	Solid	D-2216
280-65034-8	J1V3V5	T	Solid	D-2216
280-65034-9	J1V3V6	T	Solid	D-2216
280-65034-10	J1V3V7	T	Solid	D-2216
280-65034-11	J1V3V8	T	Solid	D-2216
280-65034-12	J1V3V9	T	Solid	D-2216
280-65034-13	J1V3W0	T	Solid	D-2216
280-65034-14	J1V3W1	T	Solid	D-2216

Report Basis
T = Total

Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-075-467

Collector: STOWE, QG	Company Contact: Joan Kessner	Telephone No.: 375-4688	Project Coordinator: KESSNER, JH
Price Code: 8B	Data Turnaround: 7 days		
Project Designation: 100-D/DR Field Remediation	Sampling Location: 100-D-75:1 (SPA, verification)		SAF No.: RC-075
Ice Chest No.: WCH-08-030	Field Logbook No.: EL-1662-03	COA: 01D7512000	Method of Shipment: Commercial Carrier / Fed Ex
Shipped To: TestAmerica Denver	Offsite Property No.: A131318		Bill of Lading/Air Bill No.: See OSPC

Other Labs Shipped To: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS: N/A

Special Handling and/or Storage: Cool 4C

280-65034 Chain of Custody

Sample No.	Matrix	Sample Date	Sample Time	Preservation: Cool 4C	Cool 4C	Cool 4C	Cool 4C						
				Type of Container: G/P	aG	aG	aG						
				No. of Container(s): 1	1	1	1						
				Volume: 250mL	250mL	250mL	125mL						
				Sample Analysis: See item (1) in Special Instructions	PCBs - 8082	Semi-VOA - 8270 (TCL)	TPH-Diesel Range - WTPH-D +						
J1V9T8	SOIL	02/02/15	0943	X	X	X	X						
J1V9T9	SOIL	02/02/15	0948	X	X	X	X						
J1V3V0	SOIL	02/02/15	0951	X	X	X	X						
J1V3V1	SOIL	02/02/15	0955	X	X	X	X						
J1V3V2	SOIL	02/02/15	0958	X	X	X	X						

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CHAIN OF POSSESSION / Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	1034 2-2-15	C. Martinez/C. Martinez	1034 02/02/15
C. Martinez/C. Martinez	02/02/15	C. Bingham	1600 2-2-15
C. Bingham	1600 2-2-15	1060 Battelle, fridge #1A	1630 2-2-15
1060 Battelle, fridge #1A	1630 2-3-15	C. Bingham	0715 2-3-15
C. Bingham	0715 2-3-15	fed Ex	0720 2-3-15
C. Bingham WCH	0720 2-3-15	[illegible]	1000 04Feb15

FINAL SAMPLE DISPOSITION: Disposal Method | Disposed By | Date/Time

SPECIAL INSTRUCTIONS

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

3.9, 2.9, 0.3 125±0.5
04Feb15
Transfered by [illegible]

REVIEWED BY K. Woodmansee DATE 2-3-15

JP0900

WCH-EE-011

Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-075-467

Collector STOWE, QG	**Company Contact** Joan Kessner	**Telephone No.** 375-4688	**Project Coordinator** KESSNER, JH
Project Designation 100-D/DR Field Remediation	**Sampling Location** 100-D-75:1 (SPA, verification)		**SAF No.** RC-075
Ice Chest No. WCH-08-030	**Field Logbook No.** EL-1662-03	**COA** 01D7512000	**Method of Shipment** Commercial Carrier \ Fed Ex
Shipped To TestAmerica Denver	**Offsite Property No.** A131318		**Bill of Lading/Air Bill No.** See OSPC

Price Code 8B

Data Turnaround 7 days

Other Labs Shipped To

N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

N/A

Special Handling and/or Storage

Cool 4C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C								
Type of Container	G/P	aG	aG	aG								
No. of Container(s)	1	1	1	1								
Volume	250mL	250mL	250mL	125mL								
Sample Analysis	See item (1) in Special Instructions	PCBs - 8082	Semi-VOA - 8270 (TCL)	TPH-Diesel Range - WTPH-D +								
Sample No.	**Matrix**	**Sample Date**	**Sample Time**									
J1V3V3	SOIL	02/02/15	1002	X	X	X	X					
J1V3V4	SOIL	02/02/15	1005	X	X	X	X					
J1V3V5	SOIL	02/02/15	1011	X	X	X	X					
J1V3V6	SOIL	02/02/15	1015	X	X	X	X					
J1V3V7	SOIL	02/02/15	1018	X	X	X	X					

Page 145 of 349

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	1034 2-2-15	C. Martinez/C. Martinez	1034 02/02/15
C. Martinez/C. Martinez	02/02/15 1600	C. Bingham	2-2-15 1600
C. Bingham	2-2-15 1630	1060 Battelle, fridge #1A	1630 2-2-15
1060 Battelle, fridge #1A	0715 2-3-15	C. Bingham	2-3-15 0715
C. Bingham WCH	2-3-15 0720	Fed Ex	2-3-15 0720
			04Feb15 1000

FINAL SAMPLE DISPOSITION — Disposal Method — Disposed By — Date/Time

SPECIAL INSTRUCTIONS

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

REVIEWED BY K. Woodraemaie DATE 2-3-15

JP0900

WCH-EE-011

Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-075-467

Collector: STOWE, QG	Company Contact: Joan Kessner	Telephone No.: 375-4688	Project Coordinator: KESSNER, JH
Price Code: 8B	Data Turnaround: 7 days		
Project Designation: 100-D/DR Field Remediation	Sampling Location: 100-D-75:1 (SPA, verification)		SAF No.: RC-075
Ice Chest No.: WCH-08-030	Field Logbook No.: EL-1662-03	COA: 01D7512000	Method of Shipment: Commercial Carrier \Fed Ex
Shipped To: TestAmerica Denver	Offsite Property No.: A131318		Bill of Lading/Air Bill No.: See OSPC

Other Labs Shipped To: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS: N/A

Special Handling and/or Storage: Cool 4C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C							
Type of Container	G/P	aG	aG	aG							
No. of Container(s)	1	1	1	1							
Volume	250mL	250mL	250mL	125mL							
Sample Analysis	See item (1) in Special Instructions	PCBs - 8082	Semi-VOA - 8270 (TCL)	TPH-Diesel Range - WTPH-D +							

Sample No.	Matrix	Sample Date	Sample Time										
J1V3V8	SOIL	02/02/15	1022	X	X	X	X						
J1V3V9	SOIL	02/02/15	1025	X	X	X	X						
J1V3W0	SOIL	02/02/15	0943	X	X	X	X						
J1V3W1	SOIL	02/02/~~02~~ 15	0940	X	N/A	N/A	N/A						
		* 2-3-15 CMB											

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CHAIN OF POSSESSION / Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	1034 2-2-15	c.martinez/c.martinez	1034 02/02/15
c.martinez/c.martinez	1600 02/02/15	C. Bingham CMB	2-2-15 1600
C. Bingham CMB	2-2-15 1630	1060 Battelle fridge #14	1630 2-2-15
1060 Battelle fridge #14	0715 2-3-15	C. Bingham CMB	2-3-15 0715
C. Bingham CMB WCH	2-3-15 0720	fed EX	2-3-15 0720
			04Feb15 1000

FINAL SAMPLE DISPOSITION: Disposal Method | Disposed By | Date/Time

SPECIAL INSTRUCTIONS

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

* Date changed per C. Martinez on 2-3-15 CMB. 2-3-15 CMB via telecom

JP0900

REVIEWED BY K Wood/Via email DATE 2-3-15

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

90 w/ permission

Project 28002142
Report Due: 2/11/2015
TALs TAT: 5_Day_RUSH D.b. 2-5-15

Sample Check-in List

Date/Time Received: 1000 04Feb15 **GM Screen Result** 15 **microR/hr**

Client: Washington Closure Hanford **SDG #:** JP0900 NA[ ] **SAF #:** RC075 NA [ ]

Job Number: 65034 **Chain of Custody #** RC-075-467 D.b. 2-5-15

Shipping Container ID: WCH-08-030, WCH-08-032, WCH-08-074 **Air Bill #** 7728 0672-3785, -3980, -4391

1. Custody Seals on shipping container intact? NA [ ] Yes [X] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [X] No [ ]
3. Chain of Custody record present? NA [ ] Yes [X] No [ ]
4. Cooler Temperature °C: 3.9, 2.9, 0.3 1.5, 0.5 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 04Feb15 Transferred by (KW) 27 (13 for 899, 14 for 900) 19 (7 for 899, 12 for 900) 17 (6 for 899, 11 for 900)
7. Sample holding times exceeded? NA [ ] Yes [ ] No [X]
8. Samples have:
   - X Tape
   - X Custody Seals
   - X Hazard Labels
   - X Appropriate Sample Labels
9. Samples are:
   - X In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [X] pH<2 [ ] pH>2 [ ] pH>9 [ ] **Amount HNO_3 Added** ____
11. Sample Location, Sample Collector Listed? * ✓
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [X]
13. Description of anomalies (include sample numbers): ____

Sample Custodian: [signature] **Date:** 04Feb15

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ____ by ____ Person Contacted ____

[ ] No action necessary; process as is.

Project Manager Darlene Bandy Date 2-5-15

From: (509) 376-7492
1162 Shipping
US DOE c/o WCH
2355 Stevens Dr

Richland, WA 99354

Origin ID: PSCA

FedEx Express

J16101501 1403uv

Ship Date: 03FEB15
ActWgt: 74.0 LB
CAD: 105266502/NET3610

Delivery Address Bar Code

SHIP TO: (303) 736-0190

BILL THIRD PARTY

Kae Yoder
TestAmerica
4955 Yarrow St.
A131318
ARVADA, CO 80002

Ref # 01D7512000
Invoice #
PO #
Dept #

1 of 3

WED - 04 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 7728 0672 3785
0201

MASTER

XH WHHA

80002
CO-US
DEN

537J1/A1B3/EE4B

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

From: (509) 376-7492
1162 Shipping
US DOE c/o WCH
2355 Stevens Dr

Richland, WA 99354

Origin ID: PSCA

FedEx Express

J15101501140uv

Ship Date: 03FEB15
ActWgt: 71.0 LB
CAD: 105266502/NET3610

Delivery Address Bar Code

Ref # 01D7512000
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0190
BILL THIRD PARTY

Kae Yoder
TestAmerica
4955 Yarrow St.
A131318
ARVADA, CO 80002

2 of 3

WED - 04 FEB 10:30A
PRIORITY OVERNIGHT

MPS# 7728 0672 3980
0263
Mstr# 7728 0672 3785
0201

XH WHHA

80002
CO-US
DEN

537J1/A183/EE4B

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

From: (509) 376-7492
1162 Shipping
US DOE c/o WCH
2355 Stevens Dr

Richland, WA 99354

Origin ID: PSCA

FedEx. Express

J15101501140 3uv

Ship Date: 03FEB15
ActWgt: 79.0 LB
CAD: 105266502/INET3810

Delivery Address Bar Code

SHIP TO: (303) 736-0190
BILL THIRD PARTY

Kae Yoder
TestAmerica
4955 Yarrow St.
A131318
ARVADA, CO 80002

Ref # 01D7512000
Invoice #
PO #
Dept #

3 of 3

WED - 04 FEB 10:30A
PRIORITY OVERNIGHT

MPS# 7728 0672 4391
0263
Mstr# 7728 0672 3785
0201

XH WHHA

80002
CO-US
DEN

637J1/A1B3/EE4B

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