0096163

SAF-RC-211
100-IU-2 & 100-IU-6 Miscellaneous Restoration Sites Near 100-F – Soil In-Process
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 5/5/11
INITIAL/DATE

COMMENTS:

SDG J01068 SAF-RC-211

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: 100-IU-2 600-312

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-14238-1

SDG Number: J01068

Job Description: SAF# RC-211

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

Attention: Joan H Kessner

Approved for release.
Michael T Dedio
Project Mgmt. Assistant
5/4/2011 11:25 AM

Designee for
Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
05/04/2011

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

The Lab Certification ID# is E87667.

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

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-14238-1

SDG #: J01068
SAF#: RC-211

Date SDG Closed: April 6, 2011
Data Deliverable: 15 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1H138	280-14238-1	6010/7471/1311-6010-7470/ NWTPH-G/ 9056/353.2	6010B/7471A//NWTPH-G/9056/353.2/ 1311-6010B-7470A/1311-8270
J1H138	280-14238-2	NWTPH-Dx/8270A/8310/8082	NWTPH-Dx/8270A/8310/8082

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

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

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

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

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

RECEIPT
The sample was received on 4/6/2011; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 5.8 C.

Sample J1H138 was logged as two samples, one solid matrix and one waste matrix, as the laboratory could not extract the NWTHP-D+, 8270 SVOC, 8310 PAH and 8082 PCBs using the standard soil extraction and needed to extract the sample as a waste.

Sample J1H138, requesting TCLP Metals 1311/6010B/7470A analyses, was leached and placed on hold, as instructed on the chain-of-custody. On 4/27/2011, the client instructed the laboratory to proceed with the requested TCLP Metals 1311/6010B/7470A analyses and to perform TCLP SVOA 1311/8270, the TCLP SVOC was leached outside of the recommended sample holding time. Those results are included in this report.

GC/MS SEMIVOLATILES - SW846 8270C
Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to the presence of interfering, non-target compounds, sample J1H138 had to be analyzed at a dilution, and the associated results have been flagged with a "D". The reporting limits have been adjusted relative to the dilution required. The laboratory noted that analysis at a less diluted concentration would jeopardize the integrity of the instrument.

Surrogate recoveries have been "D" flagged in sample J1H138, as the recoveries obtained are calculated from a diluted sample and are not considered reliable.

Spike compound recoveries, RPD data and surrogate recoveries have been "D" flagged in the MS/MSD performed on sample J1H138, as the recoveries obtained are calculated from diluted samples and are not considered reliable. The acceptable LCS analysis data indicated that the analytical system was operating within control.

No other anomalies were encountered.

GC/MS TCLP SEMIVOLATILES - SW846 1311/8270C
Sample J1H138 was leached outside of the method recommended holding time as the analysis was not requested until after the holding time had expired.

No other anomalies were encountered.

GC VOLATILES - NWTPH-Gx - GRO
Low levels of Gasoline are present in the method blank associated with batch 280-61251. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

No other anomalies were encountered.

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

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

HPLC - SW846 8310 - PAHs
Sample J1H138 was extracted outside of the recommended holding time of 14 days due a laboratory error. Joan Kesser was notified on 4/21/2011.

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-60986 indicates that physical and chemical interferences are present for Cobalt and Lead. Results have been flagged with an "X".

Low levels of Barium, Calcium, Magnesium and Silver are present in the method blank associated with batch 280-60986. Because the concentrations in the method blank are not present at levels greater than the reporting limits, corrective action is deemed unnecessary.

It can be noted that the sample amount was greater than four times the spike amount for Aluminum, Calcium, Chromium, Iron, Manganese and Zinc in the Matrix Spike performed on sample J1H138; therefore, control limits are not applicable.

Silicon recovered outside the control limits in the Matrix Spike performed on sample J1H138, and the associated sample results have been flagged "N". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

The duplicate analysis of sample J1H138 exhibited RPD data outside the control limits for Arsenic, Chromium, Copper, Lead and Molybdenum, and the associated sample results have been flagged "M". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

TCLP METALS - SW846 1311/6010B/7470A
Low levels of Barium are present in the method blank associated with batch 280-64419. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

No other anomalies were encountered.

GENERAL CHEMISTRY - MCAWW 353.2 - NITRATE+NITRITE
No anomalies were encountered.

GENERAL CHEMISTRY - SW846 9056M - ANIONS
The Sulfate duplicate analysis of sample J1H138 exhibited RPD data outside the control limits, and the associated sample result has been flagged "M". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
GC VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Analyzed for but not detected.
	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 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	N	Recovery exceeds upper or lower control limits
	M	Sample duplicate precision not met.
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.
	C	The analyte was detected in both the sample and the assoicated QC blank, and the sample concentration was </= 5X the blank concentration.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Lab Section	Qualifier	Description
General Chemistry		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	M	Sample duplicate precision not met.
HPLC/IC		
	U	Analyzed for but not detected.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
TCLP Semivolatiles	TAL DEN	SW846 8270C	
TCLP Extraction	TAL DEN		SW846 1311
Liquid-Liquid Extraction (Separatory Funnel)	TAL DEN		SW846 3510C
Northwest - Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Gx	
Purge and Trap	TAL DEN		SW846 5030B
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
TCLP Metals (ICP)	TAL DEN	SW846 6010B	
TCLP Extraction	TAL DEN		SW846 1311
Preparation, Total Metals	TAL DEN		SW846 3010A
TCLP Mercury	TAL DEN	SW846 7470A	
TCLP Extraction	TAL DEN		SW846 1311
Preparation, Mercury	TAL DEN		SW846 7470A
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
Nitrogen, Nitrate-Nitrite	TAL DEN	MCAWW 353.2	
Deionized Water Leaching Procedure	TAL DEN		ASTM DI Leach
Anions, Ion Chromatography	TAL DEN	SW846 9056M	
Deionized Water Leaching Procedure	TAL DEN		ASTM DI Leach
ASTM D-2216	TAL DEN	ASTM D-2216	
Matrix: Waste			
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C	
Waste Dilution	TAL DEN		SW846 3580A
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Waste Dilution	TAL DEN		SW846 3580A
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
Waste Dilution	TAL DEN		SW846 3580A
PAHs (HPLC)	TAL DEN	SW846 8310	
Waste Dilution	TAL DEN		SW846 3580A

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: 280-14238-1
Sdg Number: J01068

Method	Analyst	Analyst ID
SW846 8270C	Hoffman, Michael G	MGH
SW846 8270C	Kiekel, Daniel C	DCK
NWTPH NWTPH-Gx	Moore, Tegan E	TEM
SW846 8082	Jackson, Todd D	TDJ
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Harre, John K	JKH
SW846 7470A	Stoltz, Katie	KS
SW846 7471A	Stoltz, Katie	KS
MCAWW 353.2	Stosak, Lara E	LES
SW846 9056M	Phan, Thu L	TLP
ASTM D-2216	Berry III, Paul B	PBB
SW846 8310	Hall, Koley J	KJH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-14238-1	J1H138	Solid	04/04/2011 0845	04/06/2011 0900
280-14238-2	J1H138	Waste	04/04/2011 0845	04/06/2011 0900

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Client Sample ID: **J1H138**

Lab Sample ID: 280-14238-1
Client Matrix: Solid

Date Sampled: 04/04/2011 0845
Date Received: 04/06/2011 0900

8270C TCLP Semivolatiles-TCLP

Analysis Method:	8270C	Analysis Batch:	280-65274	Instrument ID:	MSS_D
Prep Method:	3510C	Prep Batch:	280-64892	Lab File ID:	D3544.D
Dilution:	1.0	Leach Batch:	280-64683	Initial Weight/Volume:	200 mL
Analysis Date:	05/02/2011 1359			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 1557			Injection Volume:	0.5 uL
Leach Date:	04/28/2011 1655				

Analyte DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
2-Methylphenol	0.0049	U	0.0049	0.050
3-Methylphenol & 4-Methylphenol	0.0012	U	0.0012	0.050
1,4-Dichlorobenzene	0.0016	U	0.0016	0.020
2,4-Dinitrotoluene	0.0083	U	0.0083	0.050
Hexachlorobenzene	0.0033	U	0.0033	0.050
Hexachlorobutadiene	0.016	U	0.016	0.050
Hexachloroethane	0.010	U	0.010	0.050
Nitrobenzene	0.0040	U	0.0040	0.050
Pentachlorophenol	0.0050	U	0.0050	0.25
Pyridine	0.0056	U	0.0056	0.10
2,4,6-Trichlorophenol	0.0014	U	0.0014	0.025
2,4,5-Trichlorophenol	0.0022	U	0.0022	0.050

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	94		49 - 120
2-Fluorophenol	87		50 - 120
Phenol-d5	85		47 - 120
2,4,6-Tribromophenol	105		51 - 120
Terphenyl-d14	119		56 - 120
Nitrobenzene-d5	98		51 - 120

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Client Sample ID: **J1H138**

Lab Sample ID: 280-14238-2
Client Matrix: Waste

Date Sampled: 04/04/2011 0845
Date Received: 04/06/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Prep Method:	3580A	Prep Batch:	280-61190	Lab File ID:	K9871.D
Dilution:	10			Initial Weight/Volume:	1.065 g
Analysis Date:	04/08/2011 1649			Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1222			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		51000	U D	51000	930000
2-Chlorophenol		59000	U D	59000	930000
1,3-Dichlorobenzene		34000	U D	34000	930000
1,4-Dichlorobenzene		38000	U D	38000	930000
1,2-Dichlorobenzene		62000	U D	62000	930000
2-Methylphenol		37000	U D	37000	930000
3 & 4 Methylphenol		93000	U D	93000	930000
N-Nitrosodi-n-propylamine		87000	U D	87000	930000
Hexachloroethane		60000	U D	60000	930000
Nitrobenzene		62000	U D	62000	930000
Isophorone		48000	U D	48000	930000
2,4-Dimethylphenol		190000	U D	190000	930000
2-Nitrophenol		28000	U D	28000	930000
Bis(2-chloroethoxy)methane		65000	U D	65000	930000
2,4-Dichlorophenol		28000	U D	28000	930000
1,2,4-Trichlorobenzene		79000	U D	79000	930000
Naphthalene		87000	U D	87000	930000
4-Chloroaniline		230000	U D	230000	930000
Hexachlorobutadiene		28000	U D	28000	930000
4-Chloro-3-methylphenol		190000	U D	190000	930000
2-Methylnaphthalene		54000	U D	54000	930000
Hexachlorocyclopentadiene		140000	U D	140000	4500000
2,4,6-Trichlorophenol		28000	U D	28000	930000
2,4,5-Trichlorophenol		28000	U D	28000	930000
2-Chloronaphthalene		28000	U D	28000	930000
2-Nitroaniline		140000	U D	140000	4500000
Dimethyl phthalate		65000	U D	65000	930000
2,6-Dinitrotoluene		79000	U D	79000	930000
Acenaphthylene		48000	U D	48000	930000
3-Nitroaniline		210000	U D	210000	4500000
Acenaphthene		28000	U D	28000	930000
2,4-Dinitrophenol		930000	U D	930000	4500000
4-Nitrophenol		270000	U D	270000	4500000
Dibenzofuran		56000	U D	56000	930000
2,4-Dinitrotoluene		190000	U D	190000	930000
Diethyl phthalate		73000	U D	73000	1900000
4-Chlorophenyl phenyl ether		59000	U D	59000	930000
Fluorene		51000	U D	51000	930000
4-Nitroaniline		210000	U D	210000	4500000
4,6-Dinitro-2-methylphenol		930000	U D	930000	4500000
N-Nitrosodiphenylamine		59000	U D	59000	930000
4-Bromophenyl phenyl ether		54000	U D	54000	930000
Hexachlorobenzene		82000	U D	82000	930000
Pentachlorophenol		930000	U D	930000	4500000
Phenanthrene		48000	U D	48000	930000
Anthracene		48000	U D	48000	930000

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Client Sample ID: **J1H138**

Lab Sample ID: 280-14238-2
Client Matrix: Waste

Date Sampled: 04/04/2011 0845
Date Received: 04/06/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Prep Method:	3580A	Prep Batch:	280-61190	Lab File ID:	K9871.D
Dilution:	10			Initial Weight/Volume:	1.065 g
Analysis Date:	04/08/2011 1649			Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1222			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Carbazole		100000	U D	100000	930000
Di-n-butyl phthalate		82000	U D	82000	930000
Fluoranthene		100000	U D	100000	930000
Pyrene		34000	U D	34000	930000
Butyl benzyl phthalate		120000	U D	120000	930000
Bis(2-ethylhexyl) phthalate		130000	U D	130000	930000
3,3'-Dichlorobenzidine		250000	U D	250000	1900000
Benzo[a]anthracene		56000	U D	56000	930000
Chrysene		76000	U D	76000	930000
Di-n-octyl phthalate		40000	U D	40000	930000
Benzo[b]fluoranthene		74000	U D	74000	930000
Benzo[k]fluoranthene		110000	U D	110000	930000
Benzo[a]pyrene		56000	U D	56000	930000
Dibenz(a,h)anthracene		54000	U D	54000	930000
Indeno[1,2,3-cd]pyrene		62000	U D	62000	930000
Benzo[ghi]perylene		45000	U D	45000	930000
Bis(2-chloroethyl)ether		47000	U D	47000	930000
bis (2-chloroisopropyl) ether		65000	U D	65000	930000

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorophenol	107	D	53 - 120
Phenol-d5	108	D	52 - 120
Nitrobenzene-d5	101	D	50 - 120
2-Fluorobiphenyl	111	D	50 - 120
2,4,6-Tribromophenol	88	D	51 - 120
Terphenyl-d14	110	D	55 - 120

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Client Sample ID: **J1H138**

Lab Sample ID: 280-14238-2
Client Matrix: Waste

Date Sampled: 04/04/2011 0845
Date Received: 04/06/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Prep Method:	3580A	Prep Batch:	280-61190	Lab File ID:	K9871.D
Dilution:	10			Initial Weight/Volume:	1.065 g
Analysis Date:	04/08/2011 1649			Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1222			Injection Volume:	0.5 uL

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

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

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Client Sample ID: **J1H138**

Lab Sample ID: 280-14238-1
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 04/04/2011 0845
Date Received: 04/06/2011 0900

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-62311	Instrument ID:	GCV_K
Prep Method:	5030B	Prep Batch:	280-61251	Initial Weight/Volume:	10.47 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Analysis Date:	04/12/2011 2056			Injection Volume:	5 mL
Prep Date:	04/07/2011 1539			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		600	J B	310	1200

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

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Client Sample ID: **J1H138**

Lab Sample ID: 280-14238-2
Client Matrix: Waste

Date Sampled: 04/04/2011 0845
Date Received: 04/06/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-61612	Instrument ID:	GCS_P3
Prep Method:	3580A	Prep Batch:	280-61185	Initial Weight/Volume:	.9223 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	04/09/2011 2309			Injection Volume:	1 uL
Prep Date:	04/07/2011 1206			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		5.5	U	5.5	36
Aroclor 1221		17	U	17	51
Aroclor 1232		5.6	U	5.6	36
Aroclor 1242		9.9	U	9.9	36
Aroclor 1248		6.1	U	6.1	36
Aroclor 1254		6.0	U	6.0	36
Aroclor 1260		2.9	U	2.9	36

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	91		59 - 130
Tetrachloro-m-xylene	104		53 - 128

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Client Sample ID: **J1H138**

Lab Sample ID: 280-14238-2
Client Matrix: Waste

Date Sampled: 04/04/2011 0845
Date Received: 04/06/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-61603	Instrument ID:	GCS_U
Prep Method:	3580A	Prep Batch:	280-61189	Lab File ID:	037B3701.D
Dilution:	1.0			Initial Weight/Volume:	1.0819 g
Analysis Date:	04/08/2011 0404			Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1217			Injection Volume:	1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		820000	J	280000	920000
C10-C28		190000	U	190000	920000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	105		55 - 125

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Client Sample ID: **J1H138**

Lab Sample ID: 280-14238-2
Client Matrix: Waste

Date Sampled: 04/04/2011 0845
Date Received: 04/06/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63400	Instrument ID:	CHHPLC_G
Prep Method:	3580A	Prep Batch:	280-63379	Initial Weight/Volume:	1.0729 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	04/21/2011 1709			Injection Volume:	20 uL
Prep Date:	04/21/2011 1136			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		110	U	110	750
Acenaphthylene		100	U	100	750
Anthracene		34	U	34	75
Benzo[a]anthracene		36	U	36	75
Benzo[a]pyrene		72	U	72	75
Benzo[b]fluoranthene		47	U	47	75
Benzo[g,h,i]perylene		81	U	81	150
Benzo[k]fluoranthene		44	U	44	75
Chrysene		54	U	54	150
Dibenzo(a,h)anthracene		120	U	120	150
Fluoranthene		150	U	150	150
Fluorene		59	U	59	150
Indeno[1,2,3-cd]pyrene		130	U	130	150
Naphthalene		130	U	130	750
Phenanthrene		130	U	130	150
Pyrene		130	U	130	150

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	100		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Client Sample ID: **J1H138**

Lab Sample ID: 280-14238-1
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 04/04/2011 0845
Date Received: 04/06/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-61586	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-60986	Lab File ID:	25b040811.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	04/08/2011 1919			Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10800		1.6	5.1
Antimony		0.38	U	0.38	0.61
Barium		65.1		0.077	0.51
Beryllium		0.12	B	0.033	0.20
Boron		2.3		0.99	2.0
Cadmium		0.16	B	0.042	0.20
Calcium		24000		14.3	50.6
Chromium		137	M	0.059	0.20
Cobalt		9.9	X	0.10	1.0
Copper		38.8	M	0.22	1.0
Magnesium		7920		3.7	20.2
Manganese		373		0.10	1.0
Molybdenum		0.61	B M	0.26	2.0
Nickel		30.6		0.12	4.0
Potassium		1020		41.5	304
Selenium		0.87	U	0.87	1.0
Silicon		306	N	5.7	10.1
Silver		0.34	M C	0.16	0.20
Sodium		333		59.7	121
Vanadium		60.9		0.095	2.0
Zinc		338	M	0.40	1.0

Analysis Method:	6010B	Analysis Batch:	280-61750	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-60986	Lab File ID:	25A4041111.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	04/11/2011 1906			Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.6	M	0.67	1.0
Lead		688	X M	0.27	0.51

Analysis Method:	6010B	Analysis Batch:	280-61970	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-60986	Lab File ID:	25A4041211.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	04/12/2011 2033			Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iron		24900		3.8	5.1

6010B TCLP Metals (ICP)-TCLP

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Client Sample ID: **J1H138**

Lab Sample ID: 280-14238-1
Client Matrix: Solid

Date Sampled: 04/04/2011 0845
Date Received: 04/06/2011 0900

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-65034	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-64419	Lab File ID:	25A6042911.asc
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	10 mL
Analysis Date:	04/30/2011 0015			Final Weight/Volume:	50 mL
Prep Date:	04/29/2011 0700				
Leach Date:	04/06/2011 1730				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.022	U	0.022	0.50
Barium		0.69	B	0.0020	1.0
Cadmium		0.0030	B	0.0020	0.10
Chromium		1.4		0.0030	0.50
Lead		11.7		0.013	0.50
Selenium		0.024	U	0.024	0.10

Analysis Method:	6010B	Analysis Batch:	280-65248	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-64419	Lab File ID:	25A1050211.asc
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	10 mL
Analysis Date:	05/02/2011 1640			Final Weight/Volume:	50 mL
Prep Date:	04/29/2011 0700				
Leach Date:	04/06/2011 1730				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Silver		0.0040	U	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-65036	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-64402	Lab File ID:	110429AC.txt
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	30 mL
Analysis Date:	04/30/2011 0116			Final Weight/Volume:	30 mL
Prep Date:	04/29/2011 1200				
Leach Date:	04/06/2011 1730				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.000030	U	0.000030	0.0020

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-61555	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-61088	Lab File ID:	110408AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	04/08/2011 2038			Final Weight/Volume:	50 mL
Prep Date:	04/08/2011 1110				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.011	B	0.0050	0.015

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

General Chemistry

Client Sample ID: **J1H138**

Lab Sample ID: 280-14238-1
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 04/04/2011 0845
Date Received: 04/06/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.93		mg/Kg	0.35	0.73	1.0	353.2
Analysis Batch: 280-62852	Analysis Date: 04/18/2011 1551						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.1	1.0	9056M
Analysis Batch: 280-61487	Analysis Date: 04/08/2011 0153						DryWt Corrected: Y
Nitrate as N-Soluble	1.8	B	mg/Kg	0.32	2.5	1.0	9056M
Analysis Batch: 280-61486	Analysis Date: 04/08/2011 0153						DryWt Corrected: Y
Bromide-Soluble	0.39	U	mg/Kg	0.39	2.0	1.0	9056M
Analysis Batch: 280-61487	Analysis Date: 04/08/2011 0153						DryWt Corrected: Y
Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	2.5	1.0	9056M
Analysis Batch: 280-61486	Analysis Date: 04/08/2011 0153						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.1	1.0	9056M
Analysis Batch: 280-61486	Analysis Date: 04/08/2011 0153						DryWt Corrected: Y
Sulfate-Soluble	2.5	B M	mg/Kg	1.8	5.1	1.0	9056M
Analysis Batch: 280-61487	Analysis Date: 04/08/2011 0153						DryWt Corrected: Y
Fluoride-Soluble	0.83	U	mg/Kg	0.83	5.1	1.0	9056M
Analysis Batch: 280-61487	Analysis Date: 04/08/2011 0153						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.2		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-60961	Analysis Date: 04/06/2011 1353						DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-61190					
LCS 280-61190/2-A	Lab Control Sample	T	Waste	3580A	
MB 280-61190/1-A	Method Blank	T	Waste	3580A	
280-14238-2	J1H138	T	Waste	3580A	
280-14238-2MS	Matrix Spike	T	Waste	3580A	
280-14238-2MSD	Matrix Spike Duplicate	T	Waste	3580A	
Analysis Batch:280-61597					
LCS 280-61190/2-A	Lab Control Sample	T	Waste	8270C	280-61190
MB 280-61190/1-A	Method Blank	T	Waste	8270C	280-61190
280-14238-2	J1H138	T	Waste	8270C	280-61190
280-14238-2MS	Matrix Spike	T	Waste	8270C	280-61190
280-14238-2MSD	Matrix Spike Duplicate	T	Waste	8270C	280-61190
Prep Batch: 280-64683					
LCS 280-64683/2-B	Lab Control Sample	P	Solid	1311	
LB 280-64683/1-B	TCLP SPLPE Leachate Blank	P	Solid	1311	
280-14238-1	J1H138	P	Solid	1311	
280-14238-1MS	Matrix Spike	P	Solid	1311	
280-14238-1MSD	Matrix Spike Duplicate	P	Solid	1311	
Prep Batch: 280-64892					
LCS 280-64683/2-B	Lab Control Sample	P	Solid	3510C	280-64683
LB 280-64683/1-B	TCLP SPLPE Leachate Blank	P	Solid	3510C	280-64683
280-14238-1	J1H138	P	Solid	3510C	280-64683
280-14238-1MS	Matrix Spike	P	Solid	3510C	280-64683
280-14238-1MSD	Matrix Spike Duplicate	P	Solid	3510C	280-64683
Analysis Batch:280-65274					
LCS 280-64683/2-B	Lab Control Sample	P	Solid	8270C	280-64892
LB 280-64683/1-B	TCLP SPLPE Leachate Blank	P	Solid	8270C	280-64892
280-14238-1	J1H138	P	Solid	8270C	280-64892
280-14238-1MS	Matrix Spike	P	Solid	8270C	280-64892
280-14238-1MSD	Matrix Spike Duplicate	P	Solid	8270C	280-64892

Report Basis
P = TCLP
T = Total

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Prep Batch: 280-61251					
LCS 280-61251/1-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-61251/2-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-61251/3-A	Method Blank	T	Solid	5030B	
280-14238-1	J1H138	T	Solid	5030B	
280-14238-1MS	Matrix Spike	T	Solid	5030B	
280-14238-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
Analysis Batch:280-62311					
LCS 280-61251/1-A	Lab Control Sample	T	Solid	NWTPH-Gx	280-61251
LCSD 280-61251/2-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Gx	280-61251
MB 280-61251/3-A	Method Blank	T	Solid	NWTPH-Gx	280-61251
280-14238-1	J1H138	T	Solid	NWTPH-Gx	280-61251
280-14238-1MS	Matrix Spike	T	Solid	NWTPH-Gx	280-61251
280-14238-1MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Gx	280-61251

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-61185					
LCS 280-61185/3-A	Lab Control Sample	T	Waste	3580A	
MB 280-61185/1-A	Method Blank	T	Waste	3580A	
280-14238-2	J1H138	T	Waste	3580A	
280-14238-2MS	Matrix Spike	T	Waste	3580A	
280-14238-2MSD	Matrix Spike Duplicate	T	Waste	3580A	
Prep Batch: 280-61189					
LCS 280-61189/2-A	Lab Control Sample	T	Waste	3580A	
MB 280-61189/1-A	Method Blank	T	Waste	3580A	
280-14238-2	J1H138	T	Waste	3580A	
280-14238-2MS	Matrix Spike	T	Waste	3580A	
280-14238-2MSD	Matrix Spike Duplicate	T	Waste	3580A	
Analysis Batch:280-61603					
LCS 280-61189/2-A	Lab Control Sample	T	Waste	NWTPH-Dx	280-61189
MB 280-61189/1-A	Method Blank	T	Waste	NWTPH-Dx	280-61189
280-14238-2	J1H138	T	Waste	NWTPH-Dx	280-61189
280-14238-2MS	Matrix Spike	T	Waste	NWTPH-Dx	280-61189
280-14238-2MSD	Matrix Spike Duplicate	T	Waste	NWTPH-Dx	280-61189
Analysis Batch:280-61612					
LCS 280-61185/3-A	Lab Control Sample	T	Waste	8082	280-61185
MB 280-61185/1-A	Method Blank	T	Waste	8082	280-61185
280-14238-2	J1H138	T	Waste	8082	280-61185
280-14238-2MS	Matrix Spike	T	Waste	8082	280-61185
280-14238-2MSD	Matrix Spike Duplicate	T	Waste	8082	280-61185

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-60986					
LCS 280-60986/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-60986/1-A	Method Blank	T	Solid	3050B	
280-14238-1	J1H138	T	Solid	3050B	
280-14238-1DU	Duplicate	T	Solid	3050B	
280-14238-1MS	Matrix Spike	T	Solid	3050B	
Prep Batch: 280-61027					
LCS 280-61027/2-B	Lab Control Sample	P	Solid	1311	
LCS 280-61027/2-C	Lab Control Sample	P	Solid	1311	
LB2 280-61027/1-B	TCLP SPLPW Leachate Blank	P	Solid	1311	
LB2 280-61027/1-C	TCLP SPLPW Leachate Blank	P	Solid	1311	
280-14238-1	J1H138	P	Solid	1311	
280-14238-1DU	Duplicate	P	Solid	1311	
280-14238-1MS	Matrix Spike	P	Solid	1311	
Prep Batch: 280-61088					
LCS 280-61088/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-61088/1-A	Method Blank	T	Solid	7471A	
280-14238-1	J1H138	T	Solid	7471A	
280-14238-1DU	Duplicate	T	Solid	7471A	
280-14238-1MS	Matrix Spike	T	Solid	7471A	
Analysis Batch:280-61555					
LCS 280-61088/2-A	Lab Control Sample	T	Solid	7471A	280-61088
MB 280-61088/1-A	Method Blank	T	Solid	7471A	280-61088
280-14238-1	J1H138	T	Solid	7471A	280-61088
280-14238-1DU	Duplicate	T	Solid	7471A	280-61088
280-14238-1MS	Matrix Spike	T	Solid	7471A	280-61088
Analysis Batch:280-61586					
LCS 280-60986/2-A	Lab Control Sample	T	Solid	6010B	280-60986
MB 280-60986/1-A	Method Blank	T	Solid	6010B	280-60986
280-14238-1	J1H138	T	Solid	6010B	280-60986
280-14238-1DU	Duplicate	T	Solid	6010B	280-60986
280-14238-1MS	Matrix Spike	T	Solid	6010B	280-60986
Analysis Batch:280-61750					
LCS 280-60986/2-A	Lab Control Sample	T	Solid	6010B	280-60986
MB 280-60986/1-A	Method Blank	T	Solid	6010B	280-60986
280-14238-1	J1H138	T	Solid	6010B	280-60986
280-14238-1DU	Duplicate	T	Solid	6010B	280-60986
280-14238-1MS	Matrix Spike	T	Solid	6010B	280-60986

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-61970					
LCS 280-60986/2-A	Lab Control Sample	T	Solid	6010B	280-60986
MB 280-60986/1-A	Method Blank	T	Solid	6010B	280-60986
280-14238-1	J1H138	T	Solid	6010B	280-60986
280-14238-1DU	Duplicate	T	Solid	6010B	280-60986
280-14238-1MS	Matrix Spike	T	Solid	6010B	280-60986
Prep Batch: 280-64402					
LCS 280-61027/2-B	Lab Control Sample	P	Solid	7470A	280-61027
LB2 280-61027/1-B	TCLP SPLPW Leachate Blank	P	Solid	7470A	280-61027
280-14238-1	J1H138	P	Solid	7470A	280-61027
280-14238-1DU	Duplicate	P	Solid	7470A	280-61027
280-14238-1MS	Matrix Spike	P	Solid	7470A	280-61027
Prep Batch: 280-64419					
LCS 280-61027/2-C	Lab Control Sample	P	Solid	3010A	280-61027
LB2 280-61027/1-C	TCLP SPLPW Leachate Blank	P	Solid	3010A	280-61027
280-14238-1	J1H138	P	Solid	3010A	280-61027
280-14238-1DU	Duplicate	P	Solid	3010A	280-61027
280-14238-1MS	Matrix Spike	P	Solid	3010A	280-61027
Analysis Batch:280-65034					
LCS 280-61027/2-C	Lab Control Sample	P	Solid	6010B	280-64419
LB2 280-61027/1-C	TCLP SPLPW Leachate Blank	P	Solid	6010B	280-64419
280-14238-1	J1H138	P	Solid	6010B	280-64419
280-14238-1DU	Duplicate	P	Solid	6010B	280-64419
280-14238-1MS	Matrix Spike	P	Solid	6010B	280-64419
Analysis Batch:280-65036					
LCS 280-61027/2-B	Lab Control Sample	P	Solid	7470A	280-64402
LB2 280-61027/1-B	TCLP SPLPW Leachate Blank	P	Solid	7470A	280-64402
280-14238-1	J1H138	P	Solid	7470A	280-64402
280-14238-1DU	Duplicate	P	Solid	7470A	280-64402
280-14238-1MS	Matrix Spike	P	Solid	7470A	280-64402
Analysis Batch:280-65248					
LCS 280-61027/2-C	Lab Control Sample	P	Solid	6010B	280-64419
LB2 280-61027/1-C	TCLP SPLPW Leachate Blank	P	Solid	6010B	280-64419
280-14238-1	J1H138	P	Solid	6010B	280-64419
280-14238-1DU	Duplicate	P	Solid	6010B	280-64419
280-14238-1MS	Matrix Spike	P	Solid	6010B	280-64419

Report Basis
P = TCLP
T = Total

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-60961					
280-14238-1	J1H138	T	Solid	D-2216	
280-14238-1DU	Duplicate	T	Solid	D-2216	
Prep Batch: 280-61231					
LCS 280-61231/1-A	Lab Control Sample	S	Solid	DI Leach	
MB 280-61231/2-A	Method Blank	S	Solid	DI Leach	
280-14238-1	J1H138	S	Solid	DI Leach	
280-14238-1DU	Duplicate	S	Solid	DI Leach	
280-14238-1MS	Matrix Spike	S	Solid	DI Leach	
Analysis Batch:280-61486					
LCS 280-61231/1-A	Lab Control Sample	S	Solid	9056M	
MB 280-61231/2-A	Method Blank	S	Solid	9056M	
280-14238-1	J1H138	S	Solid	9056M	
280-14238-1DU	Duplicate	S	Solid	9056M	
280-14238-1MS	Matrix Spike	S	Solid	9056M	
Analysis Batch:280-61487					
LCS 280-61231/1-A	Lab Control Sample	S	Solid	9056M	
MB 280-61231/2-A	Method Blank	S	Solid	9056M	
280-14238-1	J1H138	S	Solid	9056M	
280-14238-1DU	Duplicate	S	Solid	9056M	
280-14238-1MS	Matrix Spike	S	Solid	9056M	
Prep Batch: 280-62805					
LCS 280-62805/2-A	Lab Control Sample	S	Solid	DI Leach	
MB 280-62805/1-A	Method Blank	S	Solid	DI Leach	
280-14238-1	J1H138	S	Solid	DI Leach	
280-14238-1DU	Duplicate	S	Solid	DI Leach	
280-14238-1MS	Matrix Spike	S	Solid	DI Leach	
Analysis Batch:280-62852					
LCS 280-62805/2-A	Lab Control Sample	S	Solid	353.2	
MB 280-62805/1-A	Method Blank	S	Solid	353.2	
280-14238-1	J1H138	S	Solid	353.2	
280-14238-1DU	Duplicate	S	Solid	353.2	
280-14238-1MS	Matrix Spike	S	Solid	353.2	

Report Basis
S = Soluble
T = Total

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-63379					
LCS 280-63379/2-A	Lab Control Sample	T	Waste	3580A	
MB 280-63379/1-A	Method Blank	T	Waste	3580A	
280-14238-2	J1H138	T	Waste	3580A	
280-14238-2MS	Matrix Spike	T	Waste	3580A	
280-14238-2MSD	Matrix Spike Duplicate	T	Waste	3580A	
Analysis Batch:280-63400					
LCS 280-63379/2-A	Lab Control Sample	T	Waste	8310	280-63379
MB 280-63379/1-A	Method Blank	T	Waste	8310	280-63379
280-14238-2	J1H138	T	Waste	8310	280-63379
280-14238-2MS	Matrix Spike	T	Waste	8310	280-63379
280-14238-2MSD	Matrix Spike Duplicate	T	Waste	8310	280-63379

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Method Blank - Batch: 280-61190

Method: 8270C
Preparation: 3580A

Lab Sample ID:	MB 280-61190/1-A	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Client Matrix:	Waste	Prep Batch:	280-61190	Lab File ID:	K9860.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/08/2011 1303	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1222			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Phenol	5400	U	5400	99000
2-Chlorophenol	6300	U	6300	99000
1,3-Dichlorobenzene	3600	U	3600	99000
1,2-Dichlorobenzene	6600	U	6600	99000
2-Methylphenol	3900	U	3900	99000
1,4-Dichlorobenzene	4100	U	4100	99000
3 & 4 Methylphenol	9900	U	9900	99000
N-Nitrosodi-n-propylamine	9300	U	9300	99000
Hexachloroethane	6400	U	6400	99000
Isophorone	5100	U	5100	99000
Nitrobenzene	6600	U	6600	99000
2,4-Dimethylphenol	20000	U	20000	99000
2-Nitrophenol	3000	U	3000	99000
Bis(2-chloroethoxy)methane	6900	U	6900	99000
2,4-Dichlorophenol	3000	U	3000	99000
1,2,4-Trichlorobenzene	8400	U	8400	99000
Naphthalene	9300	U	9300	99000
4-Chloroaniline	25000	U	25000	99000
Hexachlorobutadiene	3000	U	3000	99000
4-Chloro-3-methylphenol	20000	U	20000	99000
2-Methylnaphthalene	5700	U	5700	99000
Hexachlorocyclopentadiene	15000	U	15000	480000
2,4,6-Trichlorophenol	3000	U	3000	99000
2,4,5-Trichlorophenol	3000	U	3000	99000
2-Chloronaphthalene	3000	U	3000	99000
2-Nitroaniline	15000	U	15000	480000
Dimethyl phthalate	6900	U	6900	99000
2,6-Dinitrotoluene	8400	U	8400	99000
Acenaphthylene	5100	U	5100	99000
3-Nitroaniline	22000	U	22000	480000
Acenaphthene	3000	U	3000	99000
2,4-Dinitrophenol	99000	U	99000	480000
4-Nitrophenol	29000	U	29000	480000
Dibenzofuran	6000	U	6000	99000
2,4-Dinitrotoluene	20000	U	20000	99000
Diethyl phthalate	7800	U	7800	200000
4-Chlorophenyl phenyl ether	6300	U	6300	99000
Fluorene	5400	U	5400	99000
4-Nitroaniline	22000	U	22000	480000
4,6-Dinitro-2-methylphenol	99000	U	99000	480000
N-Nitrosodiphenylamine	6300	U	6300	99000
4-Bromophenyl phenyl ether	5700	U	5700	99000
Hexachlorobenzene	8700	U	8700	99000
Pentachlorophenol	99000	U	99000	480000
Phenanthrene	5100	U	5100	99000

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Method Blank - Batch: 280-61190

Method: 8270C
Preparation: 3580A

Lab Sample ID:	MB 280-61190/1-A	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Client Matrix:	Waste	Prep Batch:	280-61190	Lab File ID:	K9860.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/08/2011 1303	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1222			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Anthracene	5100	U	5100	99000
Carbazole	11000	U	11000	99000
Di-n-butyl phthalate	8700	U	8700	99000
Fluoranthene	11000	U	11000	99000
Pyrene	3600	U	3600	99000
Butyl benzyl phthalate	13000	U	13000	99000
Bis(2-ethylhexyl) phthalate	14000	U	14000	99000
3,3'-Dichlorobenzidine	27000	U	27000	200000
Benzo[a]anthracene	6000	U	6000	99000
Chrysene	8100	U	8100	99000
Di-n-octyl phthalate	4300	U	4300	99000
Benzo[b]fluoranthene	7900	U	7900	99000
Benzo[k]fluoranthene	12000	U	12000	99000
Benzo[a]pyrene	6000	U	6000	99000
Dibenz(a,h)anthracene	5700	U	5700	99000
Indeno[1,2,3-cd]pyrene	6600	U	6600	99000
Benzo[ghi]perylene	4800	U	4800	99000
Bis(2-chloroethyl)ether	5000	U	5000	99000
bis (2-chloroisopropyl) ether	6900	U	6900	99000

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	95	53 - 120
Phenol-d5	95	52 - 120
Nitrobenzene-d5	96	50 - 120
2-Fluorobiphenyl	97	50 - 120
2,4,6-Tribromophenol	101	51 - 120
Terphenyl-d14	97	55 - 120

Method Blank TICs- Batch: 280-61190

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Lab Control Sample - Batch: 280-61190

Method: 8270C
Preparation: 3580A

Lab Sample ID:	LCS 280-61190/2-A	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Client Matrix:	Waste	Prep Batch:	280-61190	Lab File ID:	K9861.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/08/2011 1324	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1222			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Phenol	1500000	1410000	94	54 - 120	
2-Chlorophenol	1500000	1440000	96	53 - 120	
1,4-Dichlorobenzene	1000000	985000	98	46 - 120	
N-Nitrosodi-n-propylamine	1000000	1040000	104	51 - 120	
1,2,4-Trichlorobenzene	1000000	933000	93	50 - 120	
4-Chloro-3-methylphenol	1500000	1380000	92	57 - 120	
Acenaphthene	1000000	940000	94	52 - 120	
4-Nitrophenol	1500000	1370000	91	41 - 120	
2,4-Dinitrotoluene	1000000	966000	97	53 - 120	
Pentachlorophenol	1500000	1530000	102	30 - 120	
Pyrene	1000000	945000	94	50 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	101	53 - 120
Phenol-d5	100	52 - 120
Nitrobenzene-d5	101	50 - 120
2-Fluorobiphenyl	100	50 - 120
2,4,6-Tribromophenol	107	51 - 120
Terphenyl-d14	100	55 - 120

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-61190

Method: 8270C
Preparation: 3580A

MS Lab Sample ID:	280-14238-2	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Client Matrix:	Waste	Prep Batch:	280-61190	Lab File ID:	K9872.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.0343 g
Analysis Date:	04/08/2011 1710			Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1222			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-14238-2	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Client Matrix:	Waste	Prep Batch:	280-61190	Lab File ID:	K9873.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.0511 g
Analysis Date:	04/08/2011 1730			Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1222			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	109	108	54 - 120	3	30	D	D
2-Chlorophenol	109	108	53 - 120	3	30	D	D
1,4-Dichlorobenzene	106	105	46 - 120	2	30	D	D
N-Nitrosodi-n-propylamine	102	105	51 - 120	1	30	D	D
1,2,4-Trichlorobenzene	104	103	50 - 120	3	30	D	D
4-Chloro-3-methylphenol	99	101	57 - 120	0	30	D	D
Acenaphthene	109	108	52 - 120	2	30	D	D
4-Nitrophenol	62	62	41 - 120	2	30	D	D
2,4-Dinitrotoluene	78	76	53 - 120	4	30	D	D
Pentachlorophenol	78	76	30 - 120	4	30	D	D
Pyrene	107	105	50 - 120	3	38	D	D

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
2-Fluorophenol	108	D	107	D	53 - 120
Phenol-d5	110	D	111	D	52 - 120
Nitrobenzene-d5	103	D	103	D	50 - 120
2-Fluorobiphenyl	113	D	114	D	50 - 120
2,4,6-Tribromophenol	97	D	97	D	51 - 120
Terphenyl-d14	113	D	112	D	55 - 120

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

TCLP SPLPE Leachate Blank - Batch: 280-64892

Method: 8270C
Preparation: 3510C
TCLP

Lab Sample ID:	LB 280-64683/1-B	Analysis Batch:	280-65274	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-64892	Lab File ID:	D3543.D
Dilution:	1.0	Leach Batch:	280-64683	Initial Weight/Volume:	201 mL
Analysis Date:	05/02/2011 1341	Units:	mg/L	Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 1557			Injection Volume:	0.5 uL
Leach Date:	04/28/2011 1655				

Analyte	Result	Qual	MDL	RL
2-Methylphenol	0.0049	U	0.0049	0.050
1,4-Dichlorobenzene	0.0016	U	0.0016	0.020
3-Methylphenol & 4-Methylphenol	0.0012	U	0.0012	0.050
Hexachloroethane	0.010	U	0.010	0.050
Nitrobenzene	0.0040	U	0.0040	0.050
Pyridine	0.0056	U	0.0056	0.10
Hexachlorobutadiene	0.016	U	0.016	0.050
2,4,6-Trichlorophenol	0.0014	U	0.0014	0.025
2,4,5-Trichlorophenol	0.0022	U	0.0022	0.050
2,4-Dinitrotoluene	0.0083	U	0.0083	0.050
Hexachlorobenzene	0.0033	U	0.0033	0.050
Pentachlorophenol	0.0050	U	0.0050	0.25

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	89	50 - 120
Phenol-d5	83	47 - 120
Nitrobenzene-d5	92	51 - 120
2-Fluorobiphenyl	86	49 - 120
2,4,6-Tribromophenol	95	51 - 120
Terphenyl-d14	108	56 - 120

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Lab Control Sample - Batch: 280-64892

Method: 8270C
Preparation: 3510C
TCLP

Lab Sample ID:	LCS 280-64683/2-B	Analysis Batch:	280-65274	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-64892	Lab File ID:	D3535.D
Dilution:	1.0	Leach Batch:	280-64683	Initial Weight/Volume:	202 mL
Analysis Date:	05/02/2011 1116	Units:	mg/L	Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 1557			Injection Volume:	0.5 uL
Leach Date:	04/28/2011 1655				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Methylphenol	0.248	0.205	83	45 - 120	
1,4-Dichlorobenzene	0.248	0.181	73	36 - 120	
3-Methylphenol & 4-Methylphenol	0.495	0.401	81	44 - 120	
Hexachloroethane	0.248	0.189	76	35 - 120	
Nitrobenzene	0.248	0.227	92	50 - 120	
Pyridine	0.248	0.172	69	10 - 121	
Hexachlorobutadiene	0.248	0.185	75	35 - 120	
2,4,6-Trichlorophenol	0.248	0.207	84	43 - 120	
2,4,5-Trichlorophenol	0.248	0.208	84	46 - 120	
2,4-Dinitrotoluene	0.0990	0.0801	81	36 - 120	
Hexachlorobenzene	0.0990	0.0877	89	52 - 120	
Pentachlorophenol	0.495	0.489	99	39 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	83	50 - 120
Phenol-d5	78	47 - 120
Nitrobenzene-d5	94	51 - 120
2-Fluorobiphenyl	85	49 - 120
2,4,6-Tribromophenol	91	51 - 120
Terphenyl-d14	108	56 - 120

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64892

Method: 8270C
Preparation: 3510C
TCLP

MS Lab Sample ID:	280-14238-1	Analysis Batch:	280-65274	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-64892	Lab File ID:	D3536.D
Dilution:	1.0	Leach Batch:	280-64683	Initial Weight/Volume:	206 mL
Analysis Date:	05/02/2011 1134			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 1557			Injection Volume:	0.5 uL
Leach Date:	04/28/2011 1655				

MSD Lab Sample ID:	280-14238-1	Analysis Batch:	280-65274	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-64892	Lab File ID:	D3537.D
Dilution:	1.0	Leach Batch:	280-64683	Initial Weight/Volume:	198 mL
Analysis Date:	05/02/2011 1152			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 1557			Injection Volume:	0.5 uL
Leach Date:	04/28/2011 1655				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Methylphenol	87	81	45 - 120	3	30		
1,4-Dichlorobenzene	78	74	36 - 120	2	30		
3-Methylphenol & 4-Methylphenol	86	80	44 - 120	3	30		
Hexachloroethane	79	74	35 - 120	3	30		
Nitrobenzene	90	84	50 - 120	3	30		
Pyridine	79	76	10 - 121	0	30		
Hexachlorobutadiene	81	73	35 - 120	7	30		
2,4,6-Trichlorophenol	88	84	43 - 120	1	30		
2,4,5-Trichlorophenol	90	85	46 - 120	2	30		
2,4-Dinitrotoluene	84	81	36 - 120	0	30		
Hexachlorobenzene	83	80	52 - 120	0	30		
Pentachlorophenol	106	101	39 - 120	1	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorophenol	84	77	50 - 120
Phenol-d5	81	76	47 - 120
Nitrobenzene-d5	91	91	51 - 120
2-Fluorobiphenyl	86	86	49 - 120
2,4,6-Tribromophenol	98	97	51 - 120
Terphenyl-d14	113	109	56 - 120

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Method Blank - Batch: 280-61251

Method: NWTPH-Gx
Preparation: 5030B

Lab Sample ID:	MB 280-61251/3-A	Analysis Batch:	280-62311	Instrument ID:	GCV_K
Client Matrix:	Solid	Prep Batch:	280-61251	Lab File ID:	207F1201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.48 g
Analysis Date:	04/12/2011 2013	Units:	ug/Kg	Final Weight/Volume:	500 mL
Prep Date:	04/07/2011 1539			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Gasoline	441	J	310	1100

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene	93	77 - 123

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-61251

Method: NWTPH-Gx
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-61251/1-A	Analysis Batch:	280-62311	Instrument ID:	GCV_K
Client Matrix:	Solid	Prep Batch:	280-61251	Lab File ID:	205F1001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.13 g
Analysis Date:	04/12/2011 1849	Units:	ug/Kg	Final Weight/Volume:	500 mL
Prep Date:	04/07/2011 1539			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY
LCSD Lab Sample ID:	LCSD 280-61251/2-A	Analysis Batch:	280-62311	Instrument ID:	GCV_K
Client Matrix:	Solid	Prep Batch:	280-61251	Lab File ID:	206F1101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.21 g
Analysis Date:	04/12/2011 1931	Units:	ug/Kg	Final Weight/Volume:	500 mL
Prep Date:	04/07/2011 1539			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline	113	105	85 - 153	8	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	111	110	77 - 123

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-61251

Method: NWTPH-Gx
Preparation: 5030B

MS Lab Sample ID:	280-14238-1	Analysis Batch:	280-62311	Instrument ID:	GCV_K
Client Matrix:	Solid	Prep Batch:	280-61251	Lab File ID:	209F1401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	9.94 g
Analysis Date:	04/12/2011 2138			Final Weight/Volume:	500 mL
Prep Date:	04/07/2011 1539			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-14238-1	Analysis Batch:	280-62311	Instrument ID:	GCV_K
Client Matrix:	Solid	Prep Batch:	280-61251	Lab File ID:	210F1501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	9.97 g
Analysis Date:	04/12/2011 2221			Final Weight/Volume:	500 mL
Prep Date:	04/07/2011 1539			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Gasoline	89	100	85 - 153	10	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	101	107	77 - 123

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Method Blank - Batch: 280-61185

Method: 8082
Preparation: 3580A

Lab Sample ID:	MB 280-61185/1-A	Analysis Batch:	280-61612	Instrument ID:	GCS_P3
Client Matrix:	Waste	Prep Batch:	280-61185	Lab File ID:	081F8101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/09/2011 2226	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1206			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	5.1	U	5.1	33
Aroclor 1221	16	U	16	47
Aroclor 1232	5.1	U	5.1	33
Aroclor 1242	9.1	U	9.1	33
Aroclor 1248	5.6	U	5.6	33
Aroclor 1254	5.5	U	5.5	33
Aroclor 1260	2.6	U	2.6	33

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

Lab Control Sample - Batch: 280-61185

Method: 8082
Preparation: 3580A

Lab Sample ID:	LCS 280-61185/3-A	Analysis Batch:	280-61612	Instrument ID:	GCS_P3
Client Matrix:	Waste	Prep Batch:	280-61185	Lab File ID:	082F8201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/09/2011 2247	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1206			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	2000	2060	103	54 - 132	
Aroclor 1260	2000	2050	103	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	93	59 - 130
Tetrachloro-m-xylene	102	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-61185

Method: 8082
Preparation: 3580A

MS Lab Sample ID:	280-14238-2	Analysis Batch:	280-61612	Instrument ID:	GCS_P3
Client Matrix:	Waste	Prep Batch:	280-61185	Lab File ID:	084F8401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.9438 g
Analysis Date:	04/09/2011 2330			Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1206			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-14238-2	Analysis Batch:	280-61612	Instrument ID:	GCS_P3
Client Matrix:	Waste	Prep Batch:	280-61185	Lab File ID:	085F8501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.9573 g
Analysis Date:	04/09/2011 2352			Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1206			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	105	104	54 - 132	2	36		
Aroclor 1260	104	102	62 - 129	3	44		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	87	87	59 - 130
Tetrachloro-m-xylene	102	103	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Method Blank - Batch: 280-61189

Method: NWTPH-Dx
Preparation: 3580A

Lab Sample ID:	MB 280-61189/1-A	Analysis Batch:	280-61603	Instrument ID:	GCS_U
Client Matrix:	Waste	Prep Batch:	280-61189	Lab File ID:	035B3501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/08/2011 0308	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1217			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	300000	U	300000	1000000
C10-C28	200000	U	200000	1000000

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	97	55 - 125

Lab Control Sample - Batch: 280-61189

Method: NWTPH-Dx
Preparation: 3580A

Lab Sample ID:	LCS 280-61189/2-A	Analysis Batch:	280-61603	Instrument ID:	GCS_U
Client Matrix:	Waste	Prep Batch:	280-61189	Lab File ID:	036B3601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/08/2011 0336	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1217			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C10-C36	20000000	22500000	113	57 - 138	
C10-C28	20000000	22500000	113	53 - 115	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	109	55 - 125

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-61189

Method: NWTPH-Dx
Preparation: 3580A

MS Lab Sample ID:	280-14238-2	Analysis Batch:	280-61603	Instrument ID:	GCS_U
Client Matrix:	Waste	Prep Batch:	280-61189	Lab File ID:	038B3801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.9500 g
Analysis Date:	04/08/2011 0432			Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1217			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-14238-2	Analysis Batch:	280-61603	Instrument ID:	GCS_U
Client Matrix:	Waste	Prep Batch:	280-61189	Lab File ID:	039B3901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0345 g
Analysis Date:	04/08/2011 0500			Final Weight/Volume:	10000 uL
Prep Date:	04/07/2011 1217			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	114	112	57 - 134	10	38		
C10-C28	114	114	53 - 115	9	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	112	103	55 - 125

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Method Blank - Batch: 280-63379

Method: 8310
Preparation: 3580A

Lab Sample ID:	MB 280-63379/1-A	Analysis Batch:	280-63400	Instrument ID:	CHHPLC_G
Client Matrix:	Waste	Prep Batch:	280-63379	Lab File ID:	G0421008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 g
Analysis Date:	04/21/2011 1608	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/21/2011 1136			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	120	U	120	800
Acenaphthylene	110	U	110	800
Anthracene	37	U	37	80
Benzo[a]anthracene	38	U	38	80
Benzo[a]pyrene	77	U	77	80
Benzo[b]fluoranthene	50	U	50	80
Benzo[g,h,i]perylene	86	U	86	160
Benzo[k]fluoranthene	47	U	47	80
Chrysene	58	U	58	160
Dibenzo(a,h)anthracene	130	U	130	160
Fluoranthene	160	U	160	160
Fluorene	63	U	63	160
Indeno[1,2,3-cd]pyrene	140	U	140	160
Naphthalene	140	U	140	800
Phenanthrene	140	U	140	160
Pyrene	140	U	140	160

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	99	72 - 115

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Lab Control Sample - Batch: 280-63379

Method: 8310
Preparation: 3580A

Lab Sample ID:	LCS 280-63379/2-A	Analysis Batch:	280-63400	Instrument ID:	CHHPLC_G
Client Matrix:	Waste	Prep Batch:	280-63379	Lab File ID:	G0421009.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 g
Analysis Date:	04/21/2011 1639	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/21/2011 1136			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	150000	166000	111	72 - 115	
Acenaphthylene	150000	152000	101	60 - 115	
Anthracene	150000	138000	92	61 - 115	
Benzo[a]anthracene	150000	168000	112	76 - 115	
Benzo[a]pyrene	150000	138000	92	69 - 115	
Benzo[b]fluoranthene	150000	164000	109	81 - 115	
Benzo[g,h,i]perylene	150000	157000	105	71 - 115	
Benzo[k]fluoranthene	150000	150000	100	85 - 115	
Chrysene	150000	155000	103	70 - 115	
Dibenzo(a,h)anthracene	150000	156000	104	79 - 115	
Fluoranthene	150000	152000	101	67 - 115	
Fluorene	150000	152000	101	72 - 115	
Indeno[1,2,3-cd]pyrene	150000	168000	112	76 - 115	
Naphthalene	150000	158000	105	77 - 115	
Phenanthrene	150000	154000	102	79 - 115	
Pyrene	150000	151000	101	77 - 115	

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	100	72 - 115

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-63379

Method: 8310
Preparation: 3580A

MS Lab Sample ID:	280-14238-2	Analysis Batch:	280-63400	Instrument ID:	CHHPLC_G
Client Matrix:	Waste	Prep Batch:	280-63379	Lab File ID:	G0421011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0336 g
Analysis Date:	04/21/2011 1740			Final Weight/Volume:	10000 uL
Prep Date:	04/21/2011 1136			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-14238-2	Analysis Batch:	280-63400	Instrument ID:	CHHPLC_G
Client Matrix:	Waste	Prep Batch:	280-63379	Lab File ID:	G0421012.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0508 g
Analysis Date:	04/21/2011 1810			Final Weight/Volume:	10000 uL
Prep Date:	04/21/2011 1136			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	115	115	72 - 115	2	20		
Acenaphthylene	105	106	60 - 115	1	21		
Anthracene	95	96	61 - 115	1	20		
Benzo[a]anthracene	112	112	76 - 115	1	20		
Benzo[a]pyrene	93	92	69 - 115	3	20		
Benzo[b]fluoranthene	104	104	81 - 115	1	20		
Benzo[g,h,i]perylene	106	107	71 - 115	1	20		
Benzo[k]fluoranthene	101	100	85 - 115	2	20		
Chrysene	103	104	70 - 115	1	20		
Dibenzo(a,h)anthracene	106	107	79 - 115	1	20		
Fluoranthene	105	105	67 - 115	1	20		
Fluorene	104	105	72 - 115	1	20		
Indeno[1,2,3-cd]pyrene	114	115	76 - 115	1	20		
Naphthalene	109	110	77 - 115	1	20		
Phenanthrene	106	107	79 - 115	1	20		
Pyrene	104	105	77 - 115	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	102	102	72 - 115

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Method Blank - Batch: 280-60986

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-60986/1-A	Analysis Batch:	280-61586	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60986	Lab File ID:	25b040811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/08/2011 1914	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Barium	0.151	B	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	17.30	B	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Magnesium	4.63	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	0.191	B	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Method Blank - Batch: 280-60986

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-60986/1-A	Analysis Batch:	280-61750	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60986	Lab File ID:	25A4041111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/11/2011 1902	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	0.66	U	0.66	1.0
Lead	0.27	U	0.27	0.50

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Method Blank - Batch: 280-60986

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-60986/1-A	Analysis Batch:	280-61970	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60986	Lab File ID:	25A4041211.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/12/2011 2029	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Iron	3.8	U	3.8	5.0

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Lab Control Sample - Batch: 280-60986

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-60986/2-A	Analysis Batch:	280-61586	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60986	Lab File ID:	25b040811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/08/2011 1917	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	167.9	84	82 - 116	
Antimony	50.0	46.12	92	82 - 110	
Barium	200	208.0	104	87 - 112	
Beryllium	5.00	4.51	90	84 - 114	
Boron	100	86.82	87	81 - 110	
Cadmium	10.0	9.81	98	87 - 110	
Calcium	5000	4747	95	82 - 114	
Chromium	20.0	19.45	97	84 - 114	
Cobalt	50.0	46.78	94	87 - 110	
Copper	25.0	22.37	89	88 - 110	
Magnesium	5000	4541	91	90 - 110	
Manganese	50.0	49.23	98	88 - 110	
Molybdenum	100	98.86	99	86 - 110	
Nickel	50.0	47.24	94	87 - 110	
Potassium	5000	5208	104	89 - 110	
Selenium	200	191.5	96	83 - 110	
Silicon	1000	177.4	18	10 - 70	
Silver	5.00	5.09	102	87 - 114	
Sodium	5000	5228	105	90 - 112	
Vanadium	50.0	50.44	101	88 - 110	
Zinc	50.0	43.99	88	76 - 114	

Lab Control Sample - Batch: 280-60986

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-60986/2-A	Analysis Batch:	280-61750	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60986	Lab File ID:	25A4041111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/11/2011 1904	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	100	90.55	91	85 - 110	
Lead	50.0	44.23	88	86 - 110	

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Lab Control Sample - Batch: 280-60986

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-60986/2-A	Analysis Batch:	280-61970	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60986	Lab File ID:	25A4041211.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/12/2011 2031	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	100	93.58	94	87 - 120	

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Matrix Spike - Batch: 280-60986

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14238-1	Analysis Batch:	280-61586	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60986	Lab File ID:	25b040811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	04/08/2011 1926	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	10800		184	14000	1763	50 - 200	4
Antimony	0.38	U	46.0	19.80	43	20 - 200	
Barium	65.1		184	242.6	96	52 - 159	
Beryllium	0.12	B	4.60	3.86	81	72 - 105	
Boron	2.3		92.0	72.91	77	75 - 107	
Cadmium	0.16	B	9.20	8.56	91	40 - 130	
Calcium	24000		4600	28680	102	43 - 165	4
Chromium	137		18.4	158.8	118	70 - 200	4
Cobalt	9.9		46.0	47.57	82	72 - 106	
Copper	38.8		23.0	47.42	38	37 - 187	
Magnesium	7920		4600	13550	122	64 - 145	
Manganese	373		46.0	417.6	96	40 - 200	4
Molybdenum	0.61	B	92.0	78.32	84	75 - 103	
Nickel	30.6		46.0	67.22	80	61 - 126	
Potassium	1020		4600	5613	100	56 - 172	
Selenium	0.87	U	184	160.8	87	76 - 104	
Silicon	306		920	466.5	17	20 - 200	N
Silver	0.34		4.60	4.71	95	75 - 141	
Sodium	333		4600	5022	102	78 - 111	
Vanadium	60.9		46.0	114.1	116	50 - 169	
Zinc	338		46.0	231.6	-230	70 - 200	4

Matrix Spike - Batch: 280-60986

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14238-1	Analysis Batch:	280-61750	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60986	Lab File ID:	25A4041111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	04/11/2011 1913	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	4.6	92.0	79.81	82	76 - 111	
Lead	688	46.0	989.6	656	70 - 200	4

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Matrix Spike - Batch: 280-60986

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14238-1	Analysis Batch:	280-61970	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60986	Lab File ID:	25A4041211.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	04/12/2011 2041	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Iron	24900	92.0	23990	-944	70 - 200	4

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Duplicate - Batch: 280-60986

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14238-1	Analysis Batch:	280-61586	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60986	Lab File ID:	25b040811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	04/08/2011 1923	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	10800		11460	6	40	
Antimony	0.38	U	0.38	NC	40	U
Barium	65.1		67.06	3	30	
Beryllium	0.12	B	0.109	9	30	B
Boron	2.3		2.50	7	30	
Cadmium	0.16	B	0.173	7	30	B
Calcium	24000		23610	2	30	
Chromium	137		52.16	90	40	M
Cobalt	9.9		9.25	7	30	
Copper	38.8		27.07	36	30	M
Magnesium	7920		8484	7	30	
Manganese	373		342.9	9	40	
Molybdenum	0.61	B	0.355	53	30	B M
Nickel	30.6		29.53	4	30	
Potassium	1020		1066	5	40	
Selenium	0.87	U	0.85	NC	30	U
Silicon	306		291.6	5	40	
Silver	0.34		0.464	32	30	M
Sodium	333		293.8	12	30	
Vanadium	60.9		62.00	2	30	
Zinc	338		193.4	54	40	M

Duplicate - Batch: 280-60986

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14238-1	Analysis Batch:	280-61750	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60986	Lab File ID:	25A4041111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	04/11/2011 1911	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	4.6	3.05	40	30	M
Lead	688	127.4	137	40	M

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Duplicate - Batch: 280-60986

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14238-1	Analysis Batch:	280-61970	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60986	Lab File ID:	25A4041211.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	04/12/2011 2038	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Iron	24900	22730	9	40	

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

TCLP SPLPW Leachate Blank - Batch: 280-64419

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	LB2 280-61027/1-C	Analysis Batch:	280-65034	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-64419	Lab File ID:	25A6042911.asc
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	10 mL
Analysis Date:	04/30/2011 0010	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/29/2011 0700				
Leach Date:	04/06/2011 1730				

Analyte	Result	Qual	MDL	RL
Arsenic	0.022	U	0.022	0.50
Barium	0.0188	B	0.0020	1.0
Cadmium	0.0020	U	0.0020	0.10
Chromium	0.0030	U	0.0030	0.50
Lead	0.013	U	0.013	0.50
Selenium	0.024	U	0.024	0.10

TCLP SPLPW Leachate Blank - Batch: 280-64419

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	LB2 280-61027/1-C	Analysis Batch:	280-65248	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-64419	Lab File ID:	25A1050211.asc
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	10 mL
Analysis Date:	05/02/2011 1635	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/29/2011 0700				
Leach Date:	04/06/2011 1730				

Analyte	Result	Qual	MDL	RL
Silver	0.0040	U	0.0040	0.50

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Lab Control Sample - Batch: 280-64419

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	LCS 280-61027/2-C	Analysis Batch:	280-65034	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-64419	Lab File ID:	25A6042911.asc
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	10 mL
Analysis Date:	04/30/2011 0012	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/29/2011 0700				
Leach Date:	04/06/2011 1730				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	4.00	3.83	96	80 - 120	
Barium	12.0	10.92	91	80 - 120	
Cadmium	1.10	0.982	89	80 - 120	
Chromium	5.20	4.69	90	80 - 120	
Lead	5.50	4.84	88	80 - 120	
Selenium	3.00	2.59	86	80 - 120	

Lab Control Sample - Batch: 280-64419

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	LCS 280-61027/2-C	Analysis Batch:	280-65248	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-64419	Lab File ID:	25A1050211.asc
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	10 mL
Analysis Date:	05/02/2011 1637	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/29/2011 0700				
Leach Date:	04/06/2011 1730				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	1.05	1.05	100	80 - 120	

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Matrix Spike - Batch: 280-64419

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	280-14238-1	Analysis Batch:	280-65034	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-64419	Lab File ID:	25A6042911.asc
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	10 mL
Analysis Date:	04/30/2011 0019	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/29/2011 0700				
Leach Date:	04/06/2011 1730				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	0.022	U	4.00	4.18	104	80 - 120	
Barium	0.69	B	12.0	12.45	98	80 - 120	
Cadmium	0.0030	B	1.10	1.09	99	80 - 120	
Chromium	1.4		5.20	6.43	96	80 - 120	
Lead	11.7		5.50	16.97	96	80 - 120	
Selenium	0.024	U	3.00	2.86	95	80 - 120	

Matrix Spike - Batch: 280-64419

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	280-14238-1	Analysis Batch:	280-65248	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-64419	Lab File ID:	25A1050211.asc
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	10 mL
Analysis Date:	05/02/2011 1644	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/29/2011 0700				
Leach Date:	04/06/2011 1730				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.0040	U	1.05	1.17	111	80 - 120	

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Duplicate - Batch: 280-64419

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	280-14238-1	Analysis Batch:	280-65034	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-64419	Lab File ID:	25A6042911.asc
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	10 mL
Analysis Date:	04/30/2011 0021	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/29/2011 0700				
Leach Date:	04/06/2011 1730				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Arsenic	0.022	U	0.022	NC	20	U
Barium	0.69	B	0.684	0.3	20	B
Cadmium	0.0030	B	0.00305	3	20	B
Chromium	1.4		1.44	0.2	20	
Lead	11.7		11.68	0.004	20	
Selenium	0.024	U	0.024	NC	20	U

Duplicate - Batch: 280-64419

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	280-14238-1	Analysis Batch:	280-65248	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-64419	Lab File ID:	25A1050211.asc
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	10 mL
Analysis Date:	05/02/2011 1647	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/29/2011 0700				
Leach Date:	04/06/2011 1730				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Silver	0.0040	U	0.0040	NC	20	U

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

TCLP SPLPW Leachate Blank - Batch: 280-64402

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LB2 280-61027/1-B	Analysis Batch:	280-65036	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-64402	Lab File ID:	110429AC.txt
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	30 mL
Analysis Date:	04/30/2011 0112	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	04/29/2011 1200				
Leach Date:	04/06/2011 1730				

Analyte	Result	Qual	MDL	RL
Mercury	0.000030	U	0.000030	0.0020

Lab Control Sample - Batch: 280-64402

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LCS 280-61027/2-B	Analysis Batch:	280-65036	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-64402	Lab File ID:	110429AC.txt
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	30 mL
Analysis Date:	04/30/2011 0114	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	04/29/2011 1200				
Leach Date:	04/06/2011 1730				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00500	0.00576	115	90 - 116	

Matrix Spike - Batch: 280-64402

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	280-14238-1	Analysis Batch:	280-65036	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-64402	Lab File ID:	110429AC.txt
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	30 mL
Analysis Date:	04/30/2011 0125	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	04/29/2011 1200				
Leach Date:	04/06/2011 1730				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.000030	U	0.00500	0.00559	112	90 - 116	

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Duplicate - Batch: 280-64402

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	280-14238-1	Analysis Batch:	280-65036	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-64402	Lab File ID:	110429AC.txt
Dilution:	1.0	Leach Batch:	280-61027	Initial Weight/Volume:	30 mL
Analysis Date:	04/30/2011 0123	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	04/29/2011 1200				
Leach Date:	04/06/2011 1730				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.000030	U	0.000030	NC	20	U

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Method Blank - Batch: 280-61088

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-61088/1-A	Analysis Batch:	280-61555	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-61088	Lab File ID:	110408AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/08/2011 2033	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/08/2011 1110				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-61088

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-61088/2-A	Analysis Batch:	280-61555	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-61088	Lab File ID:	110408AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/08/2011 2035	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/08/2011 1110				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.430	103	87 - 111	

Matrix Spike - Batch: 280-61088

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-14238-1	Analysis Batch:	280-61555	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-61088	Lab File ID:	110408AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.65 g
Analysis Date:	04/08/2011 2042	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/08/2011 1110				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.011	B	0.389	0.418	105	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Duplicate - Batch: 280-61088

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-14238-1	Analysis Batch:	280-61555	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-61088	Lab File ID:	110408AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.66 g
Analysis Date:	04/08/2011 2040	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/08/2011 1110				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.011	B	0.0124	15	20	B

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Method Blank - Batch: 280-62852

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-62805/1-A	Analysis Batch:	280-62852	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0418BNXN
Dilution:	1.0	Leach Batch:	280-62805	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/18/2011 1548	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/18/2011 1330				

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N-Soluble	0.36	U	0.36	0.75

Method Reporting Limit Check - Batch: 280-62852

Method: 353.2
Preparation: N/A

Lab Sample ID:	MRL 280-62852/17	Analysis Batch:	280-62852	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0418BNXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	04/18/2011 1330	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	0.100	0.0845	84	50 - 150	B

Lab Control Sample - Batch: 280-62852

Method: 353.2
Preparation: N/A

Lab Sample ID:	LCS 280-62805/2-A	Analysis Batch:	280-62852	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0418BNXN
Dilution:	1.0	Leach Batch:	280-62805	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/18/2011 1549	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/18/2011 1330				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	49.5	47.31	96	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Matrix Spike - Batch: 280-62852

Method: 353.2
Preparation: N/A

Lab Sample ID:	280-14238-1	Analysis Batch:	280-62852	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0418BNXN
Dilution:	1.0	Leach Batch:	280-62805	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/18/2011 1554	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/18/2011 1330				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	0.93	38.9	39.51	99	90 - 110	

Duplicate - Batch: 280-62852

Method: 353.2
Preparation: N/A

Lab Sample ID:	280-14238-1	Analysis Batch:	280-62852	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0418BNXN
Dilution:	1.0	Leach Batch:	280-62805	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/18/2011 1552	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/18/2011 1330				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Nitrate Nitrite as N-Soluble	0.93	0.944	1	10	

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Method Blank - Batch: 280-61486

Method: 9056M
Preparation: N/A

Lab Sample ID:	MB 280-61231/2-A	Analysis Batch:	280-61486	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	168.TXT
Dilution:	1.0	Leach Batch:	280-61231	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0136	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1505				

Analyte	Result	Qual	MDL	RL
Nitrate as N-Soluble	0.31	U	0.31	2.5
Nitrite as N-Soluble	0.34	U	0.34	2.5
Orthophosphate as P-Soluble	1.2	U	1.2	5.0

Method Reporting Limit Check - Batch: 280-61486

Method: 9056M
Preparation: N/A

Lab Sample ID:	MRL 280-61486/3	Analysis Batch:	280-61486	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/07/2011 0949	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	0.200	0.198	99	50 - 150	B
Nitrite as N-Soluble	0.200	0.194	97	50 - 150	B
Orthophosphate as P-Soluble	0.200	0.203	102	50 - 150	B

Lab Control Sample - Batch: 280-61486

Method: 9056M
Preparation: N/A

Lab Sample ID:	LCS 280-61231/1-A	Analysis Batch:	280-61486	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	167.TXT
Dilution:	1.0	Leach Batch:	280-61231	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0119	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1505				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	50.0	50.61	101	90 - 110	
Nitrite as N-Soluble	50.0	50.64	101	90 - 110	
Orthophosphate as P-Soluble	50.0	46.97	94	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Matrix Spike - Batch: 280-61486

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-14238-1	Analysis Batch:	280-61486	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	171.TXT
Dilution:	1.0	Leach Batch:	280-61231	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0226	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1505				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	1.8	B	50.6	53.28	102	80 - 120	
Nitrite as N-Soluble	0.34	U	50.6	52.02	103	80 - 120	
Orthophosphate as P-Soluble	1.3	U	50.6	41.71	82	80 - 120	

Duplicate - Batch: 280-61486

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-14238-1	Analysis Batch:	280-61486	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	170.TXT
Dilution:	1.0	Leach Batch:	280-61231	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0209	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1505				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Nitrate as N-Soluble	1.8	B	1.77	1	15	B
Nitrite as N-Soluble	0.34	U	0.34	NC	15	U
Orthophosphate as P-Soluble	1.3	U	1.3	NC	15	U

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Method Blank - Batch: 280-61487

Method: 9056M
Preparation: N/A

Lab Sample ID:	MB 280-61231/2-A	Analysis Batch:	280-61487	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	168.TXT
Dilution:	1.0	Leach Batch:	280-61231	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0136	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1505				

Analyte	Result	Qual	MDL	RL
Chloride-Soluble	2.0	U	2.0	5.0
Bromide-Soluble	0.39	U	0.39	2.0
Sulfate-Soluble	1.7	U	1.7	5.0
Fluoride-Soluble	0.82	U	0.82	5.0

Method Reporting Limit Check - Batch: 280-61487

Method: 9056M
Preparation: N/A

Lab Sample ID:	MRL 280-61487/3	Analysis Batch:	280-61487	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/07/2011 0949	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	1.00	1.00	100	50 - 150	B
Bromide-Soluble	0.200	0.179	90	50 - 150	B
Sulfate-Soluble	1.00	0.934	93	50 - 150	B
Fluoride-Soluble	0.200	0.201	100	50 - 150	B

Lab Control Sample - Batch: 280-61487

Method: 9056M
Preparation: N/A

Lab Sample ID:	LCS 280-61231/1-A	Analysis Batch:	280-61487	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	167.TXT
Dilution:	1.0	Leach Batch:	280-61231	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0119	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1505				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	250	252.8	101	90 - 110	
Bromide-Soluble	50.0	50.42	101	90 - 110	
Sulfate-Soluble	250	251.9	101	90 - 110	
Fluoride-Soluble	50.0	51.33	103	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Matrix Spike - Batch: 280-61487

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-14238-1	Analysis Batch:	280-61487	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	171.TXT
Dilution:	1.0	Leach Batch:	280-61231	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0226	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1505				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	2.0	U	253	258.8	102	80 - 120	
Bromide-Soluble	0.39	U	50.6	50.78	100	80 - 120	
Sulfate-Soluble	2.5	B	253	260.1	102	80 - 120	
Fluoride-Soluble	0.83	U	50.6	41.28	82	80 - 120	

Duplicate - Batch: 280-61487

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-14238-1	Analysis Batch:	280-61487	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	170.TXT
Dilution:	1.0	Leach Batch:	280-61231	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0209	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1505				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chloride-Soluble	2.0	U	2.0	NC	15	U
Bromide-Soluble	0.39	U	0.39	NC	15	U
Sulfate-Soluble	2.5	B	3.10	22	15	B M
Fluoride-Soluble	0.83	U	0.83	NC	15	U

Client: Washington Closure Hanford

Job Number: 280-14238-1
Sdg Number: J01068

Duplicate - Batch: 280-60961

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-14238-1	Analysis Batch:	280-60961	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/06/2011 1353	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	1.2	1.2	1	20	

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-211-032	Page 1 of 1

Collector OJEDA, AJ	Company Contact Jen Russell	Telephone No. (509) 380-8093	Project Coordinator KESSNER, JH
Price Code 8C	Data Turnaround 15 Days		
Project Designation 100-IU-2 & 100-IU-6 Miscellaneous Restoration Sites Near 1	Sampling Location 100 IU 2 600-312		SAF No. RC-211
Ice Chest No. WCH-08-023	Field Logbook No. EL-1651	COA 0IU22DY000	Method of Shipment FedEx
Shipped To TestAmerica Incorporated, ~~Richland~~ Denver JR 3/31/11	Offsite Property No. NA		Bill of Lading/Air Bill No. 7969 5166 3984

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 degrees C

Preservation	Cool 4C	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C		
Type of Container	G/P	G/P	G/P	G	aGs*	aG	aG	aG		
No. of Container(s)	1	1	1	1	1 JR 3/31/11	1	1	1		
Volume	60mL	120mL	60mL	60mL	~~40mL~~ 60mL	60mL	60mL	60mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	See item (2) in Special Instructions.	See item (3) in Special Instructions.	TPH-Diesel Range - WTPH-D +	TPH-Gasoline Range - WTPH-G	Semi-VOA - 8270A (TCL)	PAHs - 8310	PCBs - 8082		

Sample No.	Matrix *	Sample Date	Sample Time										
J1H138	SOIL	4/4/11	0845	X	X	X	X	X	X	X	X		

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
AJ Ojeda	4/4/11 @ 1503	Jen Russell	4/4/11 1503
Jen Russell	4/4/11 1600	~~Received By/Stored In~~ J.E. Beahl	1600 4-4-11
~~Relinquished By/Removed From~~ J.E. Beahl	1030 4-5-11	Received By/Stored In FED EX	
Relinquished By/Removed From	Date/Time	~~Received By/Stored In~~	4-06-11 0900
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

Please leach & hold TCLP Metals, per Joan Kessner

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

(2) Metals by ICP (TCLP) - 1311/6010 {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Mercury (TCLP) - 1311/7470 {Mercury}

(3) IC Anions - 9056 Modified {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate}; NO2/NO3 - 353.2

J01068

REVIEWED BY JRE DATE 4-5-11

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

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

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 - 601978

Analytical Due:

Report Due: 4/21/11 (Rush 11d TAT)

Sample Check-in List

Date/Time Received: 4061 0900 **GM Screen Result** 13 **microR/hr**

Client: Washington Closure Hanford **SDG #:** J01068 NA[ ] **SAF #:** RC-211 NA [ ]

Job Number: 14238 **Chain of Custody #** RC-211-032

Shipping Container ID: WCH-08-023 **Air Bill #** 7969 5166 3894

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

Sample Custodian: [signature] **Date:** 4/06/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager [signature] Date 4/7/11

LS-023, Rev. 7, 1/08

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

RICHLAND, WA 99354

J11151102250225

Ship Date: 05APR11
ActWgt: 72.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

WED - 06 APR A1
PRIORITY OVERNIGHT

TRK# 7969 5166 3984
0201

XH WHHA

80002
CO-US
DEN

50DG3/26A8/7EFB

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.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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