0096057

SAF-RC-149
300 Area Field Remediation – Soil In-Process
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 5/3/11
INITIAL/DATE

RECEIVED
MAY 10 2011
EDMC

COMMENTS:

SDG JP0144 **SAF-RC-149**

Rad only Chem only ☑ Rad & Chem

☑ Complete Partial

Sample Location/Waste Site: 300-15 at 321 Building

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-14026-1

SDG Number: JP0144

Job Description: SAF# RC-149

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

Attention: Joan H Kessner

Approved for release.
Kae E Yoder
Project Manager II
4/27/2011 3:04 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
04/27/2011

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

Table of Contents

Cover Title Page 1

Report Narrative 3

Data Qualifiers 5

Method Summary 7

Method / Analyst Summary 8

Sample Summary 9

Sample Results 10

Sample Datasheets 11

QC Results 21

Qc Association Summary 22

Qc Reports 27

Client Chain of Custody 53

Sample Receipt Checklist 54

CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-14026-1

SDG #: JP0144
SAF#: RC-149

Date SDG Closed: March 30, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1H056	280-14026-1	6010/7471/300.0/353.2/9045/9030/ WTPH-D+/8260A/8270A/8082/8310	6010B/7471A/9056M/353.2/9045C/9034/ NWTPH-Dx/8260B/8270C/8082/8310

The Anions method substitution noted above, as agreed to by all parties, has no technical impact on the data.

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 3/30/2011; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.4 C.

GC/MS VOLATILES - SW846 8260B
No anomalies were encountered.

GC/MS SEMIVOLATILES - SW846 8270C
The method required MS/MSD could not be performed for batch 280-60044, due to insufficient sample volume submitted by the client. A duplicate LCS (LCSD) was analyzed to provide some evidence of batch precision.

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8082 - PCBs
The laboratory noted that sample J1H056 contained more than one Aroclor component. Results should be considered estimated due to shared peaks.

The MS/MSD performed on sample J1H056 exhibited percent recoveries outside the control limits for Aroclor 1016 and Aroclor 1260, and the associated sample results have been flagged "N". The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GC SEMIVOLATILES - NWTPH-Dx - DRO
The method required MS/MSD could not be performed for batch 280-60053, due to insufficient sample volume submitted by the client. A duplicate LCS (LCSD) was analyzed to provide some evidence of batch precision.

No other anomalies were encountered.

HPLC - SW846 8310 - PAHs
The method required MS/MSD could not be performed for batch 280-60048, due to insufficient sample volume submitted by the client. A duplicate LCS (LCSD) was analyzed to provide some evidence of batch precision.

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-60003 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the methods Due to high constituent concentration, the Mercury analysis of sample J1H056 had to be performed at a dilution. The reporting limit has been adjusted relative to the dilution required.

Low levels of Barium and Zinc are present in the method blank associated with batch 280-60003. 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, Iron and Manganese in the Matrix Spike performed on sample J1H056; therefore, control limits are not applicable.

Mercury was recovered outside the control limits in the Matrix Spike performed on sample J1H056, and the associated sample result has been flagged "N". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

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

GENERAL CHEMISTRY - SW846 9034 - SULFIDE
Due to insufficient sample volume submitted by the client, the Matrix Spike and Sample Duplicate analysis for batch 280-60656 could not be performed. A duplicate LCS (LCSD) was analyzed to provide some evidence of batch precision.

No other anomalies were encountered.

GENERAL CHEMISTRY - SW846 9056M - ANIONS
The Matrix Spike performed on sample J1H056 exhibited percent recoveries outside the control limits for Orthophosphate as P and Fluoride, 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.

No other anomalies were encountered.

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

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	J	Indicates an Estimated Value for TICs
	N	Presumptive evidence of material.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an Estimated Value for TICs
	N	Presumptive evidence of material.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Analyzed for but not detected.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration: therefore, control limits are not applicable.
	N	Recovery exceeds upper or lower control limits
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

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
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
HPLC/IC		
	U	Analyzed for but not detected.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
Ultrasonic Extraction	TAL DEN		SW846 3550C
PAHs (HPLC)	TAL DEN	SW846 8310	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
Nitrogen, Nitrate-Nitrite	TAL DEN	MCAWW 353.2	
Deionized Water Leaching Procedure	TAL DEN		ASTM DI Leach
Sulfide, Acid Soluble and Insoluble (Titrimetric)	TAL DEN	SW846 9034	
Sulfide, Distillation (Acid Soluble and Insoluble)	TAL DEN		SW846 9030B
pH	TAL DEN	SW846 9045C	
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	

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: 280-14026-1
Sdg Number: JP0144

Method	Analyst	Analyst ID
SW846 8260B	Reinhardt, Jason	JR
SW846 8270C	Tinkham, Sarah A	SAT
SW846 8082	Pavlakovich, Adam M	AMP
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Trudell, Lynn-Anne	LT
SW846 7471A	Stoltz, Katie	KS
MCAWW 353.2	Stosak, Lara E	LES
SW846 9034	Plumb, Paul M	PMP
SW846 9045C	Taylor, Juli M	JMT
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: 280-14026-1
Sdg Number: JP0144

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-14026-1	J1H056	Solid	03/28/2011 1315	03/30/2011 0930

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Client Sample ID: **J1H056**

Lab Sample ID: 280-14026-1
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/28/2011 1315
Date Received: 03/30/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-60142	Instrument ID:	MSV_J
Prep Method:	5030B	Prep Batch:	280-59928	Lab File ID:	J5789.D
Dilution:	1.0			Initial Weight/Volume:	5.281 g
Analysis Date:	03/30/2011 1653			Final Weight/Volume:	5 mL
Prep Date:	03/30/2011 1340				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.4	U	5.4	20
Benzene		0.47	U	0.47	5.0
Bromodichloromethane		0.22	U	0.22	5.0
Bromoform		0.23	U	0.23	5.0
Bromomethane		0.50	U	0.50	10
2-Butanone (MEK)		1.8	U	1.8	10
Carbon disulfide		0.42	U	0.42	5.0
Carbon tetrachloride		0.63	U	0.63	5.0
Chlorobenzene		0.54	U	0.54	5.0
Dibromochloromethane		0.57	U	0.57	5.0
Chloroethane		0.90	U	0.90	10
Chloroform		0.29	U	0.29	5.0
Chloromethane		0.78	U	0.78	10
1,1-Dichloroethane		0.21	U	0.21	5.0
1,2-Dichloroethane		0.70	U	0.70	5.0
1,1-Dichloroethene		0.59	U	0.59	5.0
1,2-Dichloroethene, Total		0.39	U	0.39	5.0
1,2-Dichloropropane		0.55	U	0.55	5.0
cis-1,3-Dichloropropene		1.3	U	1.3	5.0
trans-1,3-Dichloropropene		0.67	U	0.67	5.0
Ethylbenzene		0.67	U	0.67	5.0
2-Hexanone		4.9	U	4.9	20
Methylene Chloride		0.75	U	0.75	5.0
4-Methyl-2-pentanone (MIBK)		4.4	U	4.4	10
Styrene		0.63	U	0.63	5.0
1,1,2,2-Tetrachloroethane		0.61	U	0.61	5.0
Tetrachloroethene		0.59	U	0.59	5.0
Toluene		0.69	U	0.69	5.0
1,1,1-Trichloroethane		0.52	U	0.52	5.0
1,1,2-Trichloroethane		0.89	U	0.89	5.0
Trichloroethene		0.23	U	0.23	5.0
Vinyl chloride		1.3	U	1.3	5.0
Xylenes, Total		0.61	U	0.61	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		58 - 140
Toluene-d8 (Surr)	106		80 - 126
4-Bromofluorobenzene (Surr)	103		76 - 127
Dibromofluoromethane (Surr)	101		75 - 121

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Client Sample ID: **J1H056**

Lab Sample ID: 280-14026-1
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/28/2011 1315
Date Received: 03/30/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-60142	Instrument ID:	MSV_J
Prep Method:	5030B	Prep Batch:	280-59928	Lab File ID:	J5789.D
Dilution:	1.0			Initial Weight/Volume:	5.281 g
Analysis Date:	03/30/2011 1653			Final Weight/Volume:	5 mL
Prep Date:	03/30/2011 1340				

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: 280-14026-1
Sdg Number: JP0144

Client Sample ID: **J1H056**

Lab Sample ID: 280-14026-1
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/28/2011 1315
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60044	Lab File ID:	Y9190.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	03/31/2011 1849			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 2055			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		21	U	21	350
Benzo[a]pyrene		21	U	21	350
Benzo[b]fluoranthene		27	U	27	350
Benzo[ghi]perylene		17	U	17	350
Benzo[k]fluoranthene		42	U	42	350
Bis(2-chloroethoxy)methane		24	U	24	350
Bis(2-chloroethyl)ether		17	U	17	350
bis (2-chloroisopropyl) ether		24	U	24	350
Bis(2-ethylhexyl) phthalate		190	J	48	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		45	U	45	350
Carbazole		38	U	38	350
4-Chloroaniline		86	U	86	350
4-Chloro-3-methylphenol		69	U	69	350
2-Chloronaphthalene		10	U	10	350
2-Chlorophenol		22	U	22	350
4-Chlorophenyl phenyl ether		22	U	22	350
Chrysene		28	U	28	350
Dibenz(a,h)anthracene		20	U	20	350
Dibenzofuran		21	U	21	350
1,2-Dichlorobenzene		23	U	23	350
1,3-Dichlorobenzene		13	U	13	350
1,4-Dichlorobenzene		14	U	14	350
3,3'-Dichlorobenzidine		94	U	94	690
2,4-Dichlorophenol		10	U	10	350
Diethyl phthalate		27	U	27	350
2,4-Dimethylphenol		69	U	69	350
Dimethyl phthalate		24	U	24	350
Di-n-butyl phthalate		30	U	30	350
4,6-Dinitro-2-methylphenol		350	U	350	690
2,4-Dinitrophenol		350	U	350	860
2,4-Dinitrotoluene		69	U	69	350
2,6-Dinitrotoluene		29	U	29	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		38	U	38	350
Fluorene		19	U	19	350
Hexachlorobenzene		30	U	30	350
Hexachlorobutadiene		10	U	10	350
Hexachlorocyclopentadiene		52	U	52	350
Hexachloroethane		22	U	22	350
Indeno[1,2,3-cd]pyrene		23	U	23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Client Sample ID: **J1H056**

Lab Sample ID: 280-14026-1
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/28/2011 1315
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60044	Lab File ID:	Y9190.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	03/31/2011 1849			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 2055			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	350
3 & 4 Methylphenol		35	U	35	350
Naphthalene		32	U	32	350
2-Nitroaniline		52	U	52	350
3-Nitroaniline		76	U	76	350
4-Nitroaniline		76	U	76	350
Nitrobenzene		23	U	23	350
2-Nitrophenol		10	U	10	350
4-Nitrophenol		100	U	100	690
N-Nitrosodi-n-propylamine		32	U	32	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	690
Phenanthrene		18	U	18	350
Phenol		19	U	19	350
Pyrene		13	U	13	350
1,2,4-Trichlorobenzene		29	U	29	350
2,4,5-Trichlorophenol		10	U	10	350
2,4,6-Trichlorophenol		10	U	10	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	81		50 - 120
2-Fluorophenol	85		53 - 120
Nitrobenzene-d5	80		50 - 120
Phenol-d5	85		52 - 120
Terphenyl-d14	88		55 - 120
2,4,6-Tribromophenol	80		51 - 120

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Client Sample ID: **J1H056**

Lab Sample ID: 280-14026-1
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/28/2011 1315
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60044	Lab File ID:	Y9190.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	03/31/2011 1849			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 2055			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **8**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.76	360	N J
	Unknown	2.96	160	N J
	Unknown	3.01	240	N J
2216-30-0	Heptane, 2,5-dimethyl-	3.13	280	N J
	Unknown	3.21	3600	N J
64-77-7	Tolbutamide	8.34	180	N J
149-30-4	2-Mercaptobenzothiazole	9.44	1000	N J
	Unknown	10.37	140	N J

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Client Sample ID: **J1H056**

Lab Sample ID: 280-14026-1
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/28/2011 1315
Date Received: 03/30/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60554	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-60019	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/02/2011 2055			Injection Volume:	1 uL
Prep Date:	03/30/2011 1903			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U N	2.9	10
Aroclor 1221		8.4	U	8.4	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.9	U	4.9	10
Aroclor 1248		4.9	U	4.9	10
Aroclor 1254		140		2.7	10
Aroclor 1260		68	N	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	91		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Client Sample ID: **J1H056**

Lab Sample ID: 280-14026-1
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/28/2011 1315
Date Received: 03/30/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60564	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-60053	Lab File ID:	071B2401.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	04/01/2011 0318			Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		3000	J	1000	4200
C10-C28		2600	J	710	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	71		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Client Sample ID: **J1H056**

Lab Sample ID: 280-14026-1
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/28/2011 1315
Date Received: 03/30/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-60216	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-60048	Initial Weight/Volume:	32.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	03/31/2011 2055			Injection Volume:	20 uL
Prep Date:	03/30/2011 2222			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	96		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Client Sample ID: **J1H056**

Lab Sample ID: 280-14026-1
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/28/2011 1315
Date Received: 03/30/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60525	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60003	Lab File ID:	26A040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	04/01/2011 1458			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4730	X	1.5	5.0
Antimony		0.38	B	0.38	0.60
Arsenic		1.9		0.66	0.99
Barium		47.7	X	0.076	0.50
Beryllium		0.033	U	0.033	0.20
Boron		0.97	U	0.97	2.0
Cadmium		0.064	B	0.041	0.20
Calcium		3010	X	14.0	49.7
Chromium		42.7	X	0.058	0.20
Cobalt		6.0	X	0.099	0.99
Copper		16.9	X	0.22	0.99
Iron		19300	X	3.8	5.0
Lead		11.2		0.27	0.50
Magnesium		3040	X	3.7	19.9
Manganese		234	X	0.099	0.99
Molybdenum		0.46	B	0.26	2.0
Nickel		8.4	X	0.12	4.0
Potassium		619		40.7	298
Selenium		0.85	U	0.85	0.99
Silicon		187		5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		210		58.6	119
Vanadium		55.6	X	0.093	2.0
Zinc		42.7	X	0.40	0.99
Zirconium		24.9	X	0.35	2.5

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-60099	Lab File ID:	110331AD.txt
Dilution:	5.0			Initial Weight/Volume:	0.64 g
Analysis Date:	03/31/2011 2324			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.98	N	0.028	0.085

General Chemistry

Client Sample ID: **J1H056**

Lab Sample ID: 280-14026-1
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/28/2011 1315
Date Received: 03/30/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	71.7		mg/Kg	0.38	0.79	1.0	353.2
Analysis Batch: 280-60203	Analysis Date: 03/31/2011 1439						DryWt Corrected: Y
Sulfide	2.5	U	mg/Kg	2.5	5.3	1.0	9034
Analysis Batch: 280-60664	Analysis Date: 04/04/2011 1732						DryWt Corrected: Y
Prep Batch: 280-60656	Prep Date: 04/04/2011 1622						
Chloride-Soluble	4.1	B	mg/Kg	2.1	5.3	1.0	9056M
Analysis Batch: 280-60205	Analysis Date: 03/30/2011 1832						DryWt Corrected: Y
Nitrate as N-Soluble	84.1		mg/Kg	0.33	2.7	1.0	9056M
Analysis Batch: 280-60204	Analysis Date: 03/30/2011 1832						DryWt Corrected: Y
Bromide-Soluble	0.41	U	mg/Kg	0.41	2.1	1.0	9056M
Analysis Batch: 280-60205	Analysis Date: 03/30/2011 1832						DryWt Corrected: Y
Nitrite as N-Soluble	0.36	U	mg/Kg	0.36	2.7	1.0	9056M
Analysis Batch: 280-60204	Analysis Date: 03/30/2011 1832						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U N	mg/Kg	1.3	5.3	1.0	9056M
Analysis Batch: 280-60204	Analysis Date: 03/30/2011 1832						DryWt Corrected: Y
Sulfate-Soluble	135		mg/Kg	1.8	5.3	1.0	9056M
Analysis Batch: 280-60205	Analysis Date: 03/30/2011 1832						DryWt Corrected: Y
Fluoride-Soluble	1.6	B N	mg/Kg	0.87	5.3	1.0	9056M
Analysis Batch: 280-60205	Analysis Date: 03/30/2011 1832						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	7.58		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-60185	Analysis Date: 03/31/2011 1004						DryWt Corrected: N
Percent Moisture	5.9		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-60112	Analysis Date: 03/31/2011 0931						DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 280-59928					
LCS 280-59928/2-A	Lab Control Sample	T	Solid	5030B	
MB 280-59928/1-A	Method Blank	T	Solid	5030B	
280-14026-1	J1H056	T	Solid	5030B	
280-14026-1MS	Matrix Spike	T	Solid	5030B	
280-14026-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
Analysis Batch:280-60142					
LCS 280-59928/2-A	Lab Control Sample	T	Solid	8260B	280-59928
MB 280-59928/1-A	Method Blank	T	Solid	8260B	280-59928
280-14026-1	J1H056	T	Solid	8260B	280-59928
280-14026-1MS	Matrix Spike	T	Solid	8260B	280-59928
280-14026-1MSD	Matrix Spike Duplicate	T	Solid	8260B	280-59928

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 280-60044					
LCS 280-60044/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-60044/3-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-60044/1-A	Method Blank	T	Solid	3550C	
280-14026-1	J1H056	T	Solid	3550C	
Analysis Batch:280-60409					
LCS 280-60044/2-A	Lab Control Sample	T	Solid	8270C	280-60044
LCSD 280-60044/3-A	Lab Control Sample Duplicate	T	Solid	8270C	280-60044
MB 280-60044/1-A	Method Blank	T	Solid	8270C	280-60044
280-14026-1	J1H056	T	Solid	8270C	280-60044

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-60019					
LCS 280-60019/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-60019/1-A	Method Blank	T	Solid	3550C	
280-14026-1	J1H056	T	Solid	3550C	
280-14026-1MS	Matrix Spike	T	Solid	3550C	
280-14026-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
Prep Batch: 280-60053					
LCS 280-60053/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-60053/3-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-60053/1-A	Method Blank	T	Solid	3550C	
280-14026-1	J1H056	T	Solid	3550C	
Analysis Batch:280-60554					
LCS 280-60019/2-A	Lab Control Sample	T	Solid	8082	280-60019
MB 280-60019/1-A	Method Blank	T	Solid	8082	280-60019
280-14026-1	J1H056	T	Solid	8082	280-60019
280-14026-1MS	Matrix Spike	T	Solid	8082	280-60019
280-14026-1MSD	Matrix Spike Duplicate	T	Solid	8082	280-60019
Analysis Batch:280-60564					
LCS 280-60053/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-60053
LCSD 280-60053/3-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-60053
MB 280-60053/1-A	Method Blank	T	Solid	NWTPH-Dx	280-60053
280-14026-1	J1H056	T	Solid	NWTPH-Dx	280-60053

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-60003					
LCS 280-60003/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-60003/1-A	Method Blank	T	Solid	3050B	
280-14026-1	J1H056	T	Solid	3050B	
280-14026-1DU	Duplicate	T	Solid	3050B	
280-14026-1MS	Matrix Spike	T	Solid	3050B	
Prep Batch: 280-60099					
LCS 280-60099/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-60099/1-A	Method Blank	T	Solid	7471A	
280-14026-1	J1H056	T	Solid	7471A	
280-14026-1DU	Duplicate	T	Solid	7471A	
280-14026-1MS	Matrix Spike	T	Solid	7471A	
Analysis Batch:280-60271					
LCS 280-60099/2-A	Lab Control Sample	T	Solid	7471A	280-60099
MB 280-60099/1-A	Method Blank	T	Solid	7471A	280-60099
280-14026-1	J1H056	T	Solid	7471A	280-60099
280-14026-1DU	Duplicate	T	Solid	7471A	280-60099
280-14026-1MS	Matrix Spike	T	Solid	7471A	280-60099
Analysis Batch:280-60525					
LCS 280-60003/2-A	Lab Control Sample	T	Solid	6010B	280-60003
MB 280-60003/1-A	Method Blank	T	Solid	6010B	280-60003
280-14026-1	J1H056	T	Solid	6010B	280-60003
280-14026-1DU	Duplicate	T	Solid	6010B	280-60003
280-14026-1MS	Matrix Spike	T	Solid	6010B	280-60003

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-59988					
LCS 280-59988/1-A	Lab Control Sample	S	Solid	DI Leach	
MB 280-59988/2-A	Method Blank	S	Solid	DI Leach	
280-14026-1	J1H056	S	Solid	DI Leach	
280-14026-1DU	Duplicate	S	Solid	DI Leach	
280-14026-1MS	Matrix Spike	S	Solid	DI Leach	
Prep Batch: 280-60098					
280-14026-1	J1H056	S	Solid	DI Leach	
280-14026-1DU	Duplicate	S	Solid	DI Leach	
Analysis Batch:280-60112					
280-14026-1	J1H056	T	Solid	D-2216	
280-14026-1DU	Duplicate	T	Solid	D-2216	
Analysis Batch:280-60185					
LCS 280-60185/4	Lab Control Sample	T	Water	9045C	
LCSD 280-60185/5	Lab Control Sample Duplicate	T	Water	9045C	
280-14026-1	J1H056	S	Solid	9045C	
280-14026-1DU	Duplicate	S	Solid	9045C	
Prep Batch: 280-60195					
LCS 280-60195/2-A	Lab Control Sample	S	Solid	DI Leach	
MB 280-60195/1-A	Method Blank	S	Solid	DI Leach	
280-14026-1	J1H056	S	Solid	DI Leach	
280-14026-1DU	Duplicate	S	Solid	DI Leach	
280-14026-1MS	Matrix Spike	S	Solid	DI Leach	
Analysis Batch:280-60203					
LCS 280-60195/2-A	Lab Control Sample	S	Solid	353.2	
MB 280-60195/1-A	Method Blank	S	Solid	353.2	
280-14026-1	J1H056	S	Solid	353.2	
280-14026-1DU	Duplicate	S	Solid	353.2	
280-14026-1MS	Matrix Spike	S	Solid	353.2	
Analysis Batch:280-60204					
LCS 280-59988/1-A	Lab Control Sample	S	Solid	9056M	
MB 280-59988/2-A	Method Blank	S	Solid	9056M	
280-14026-1	J1H056	S	Solid	9056M	
280-14026-1DU	Duplicate	S	Solid	9056M	
280-14026-1MS	Matrix Spike	S	Solid	9056M	

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-60205					
LCS 280-59988/1-A	Lab Control Sample	S	Solid	9056M	
MB 280-59988/2-A	Method Blank	S	Solid	9056M	
280-14026-1	J1H056	S	Solid	9056M	
280-14026-1DU	Duplicate	S	Solid	9056M	
280-14026-1MS	Matrix Spike	S	Solid	9056M	
Prep Batch: 280-60656					
LCS 280-60656/2-A	Lab Control Sample	T	Solid	9030B	
LCSD 280-60656/3-A	Lab Control Sample Duplicate	T	Solid	9030B	
MB 280-60656/4-A	Method Blank	T	Solid	9030B	
280-14026-1	J1H056	T	Solid	9030B	
Analysis Batch:280-60664					
LCS 280-60656/2-A	Lab Control Sample	T	Solid	9034	280-60656
LCSD 280-60656/3-A	Lab Control Sample Duplicate	T	Solid	9034	280-60656
MB 280-60656/4-A	Method Blank	T	Solid	9034	280-60656
280-14026-1	J1H056	T	Solid	9034	280-60656

Report Basis
S = Soluble
T = Total

HPLC/IC

Prep Batch: 280-60048					
LCS 280-60048/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-60048/3-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-60048/1-A	Method Blank	T	Solid	3550C	
280-14026-1	J1H056	T	Solid	3550C	
Analysis Batch:280-60216					
LCS 280-60048/2-A	Lab Control Sample	T	Solid	8310	280-60048
LCSD 280-60048/3-A	Lab Control Sample Duplicate	T	Solid	8310	280-60048
MB 280-60048/1-A	Method Blank	T	Solid	8310	280-60048
280-14026-1	J1H056	T	Solid	8310	280-60048

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Method Blank - Batch: 280-59928

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-59928/1-A	Analysis Batch:	280-60142	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-59928	Lab File ID:	J5773.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.22 g
Analysis Date:	03/30/2011 1037	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	03/30/2011 0600				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	5.2	U	5.2	19
Benzene	0.45	U	0.45	4.8
Bromodichloromethane	0.21	U	0.21	4.8
Bromoform	0.22	U	0.22	4.8
Bromomethane	0.48	U	0.48	9.6
2-Butanone (MEK)	1.8	U	1.8	9.6
Carbon disulfide	0.40	U	0.40	4.8
Carbon tetrachloride	0.60	U	0.60	4.8
Chlorobenzene	0.52	U	0.52	4.8
Dibromochloromethane	0.55	U	0.55	4.8
Chloroethane	0.85	U	0.85	9.6
Chloroform	0.28	U	0.28	4.8
Chloromethane	0.74	U	0.74	9.6
1,3-Dichlorobenzene	0.46	U	0.46	4.8
1,1-Dichloroethane	0.20	U	0.20	4.8
1,2-Dichloroethane	0.67	U	0.67	4.8
trans-1,2-Dichloroethene	0.37	U	0.37	2.4
1,1-Dichloroethene	0.57	U	0.57	4.8
1,2-Dichloroethene, Total	0.37	U	0.37	4.8
1,2-Dichloropropane	0.53	U	0.53	4.8
cis-1,3-Dichloropropene	1.2	U	1.2	4.8
trans-1,3-Dichloropropene	0.64	U	0.64	4.8
Ethylbenzene	0.64	U	0.64	4.8
2-Hexanone	4.7	U	4.7	19
Methylene Chloride	0.72	U	0.72	4.8
4-Methyl-2-pentanone (MIBK)	4.2	U	4.2	9.6
Styrene	0.60	U	0.60	4.8
1,1,2,2-Tetrachloroethane	0.58	U	0.58	4.8
Tetrachloroethene	0.57	U	0.57	4.8
Toluene	0.66	U	0.66	4.8
1,1,1-Trichloroethane	0.50	U	0.50	4.8
1,1,2-Trichloroethane	0.84	U	0.84	4.8
Trichloroethene	0.22	U	0.22	4.8
Vinyl chloride	1.3	U	1.3	4.8
Xylenes, Total	0.58	U	0.58	4.8

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	58 - 140
Toluene-d8 (Surr)	103	80 - 126
4-Bromofluorobenzene (Surr)	98	76 - 127
Dibromofluoromethane (Surr)	99	75 - 121

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Method Blank TICs- Batch: 280-59928

Cas Number	Analyte	RT	Est. Result	Qual
87-68-3	Hexachlorobutadiene	15.47	2.03	J N J
91-20-3	Naphthalene	15.58	0.739	J N J
	Tentatively Identified Compound		None	

Lab Control Sample - Batch: 280-59928

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-59928/2-A	Analysis Batch:	280-60142	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-59928	Lab File ID:	J5770.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	03/30/2011 0928	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	03/30/2011 0600				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	56.7	113	76 - 120	
Bromodichloromethane	50.0	50.1	100	74 - 125	
Carbon tetrachloride	50.0	50.5	101	69 - 147	
Chlorobenzene	50.0	56.1	112	74 - 120	
Chloroform	50.0	49.8	100	77 - 125	
1,3-Dichlorobenzene	50.0	54.4	109	74 - 120	
1,1-Dichloroethane	50.0	53.2	106	74 - 120	
trans-1,2-Dichloroethene	50.0	56.5	113	80 - 127	
1,1-Dichloroethene	50.0	53.9	108	77 - 143	
1,2-Dichloropropane	50.0	56.4	113	74 - 120	
Ethylbenzene	50.0	58.0	116	78 - 120	
Methylene Chloride	50.0	54.9	110	76 - 137	
Tetrachloroethene	50.0	55.2	110	71 - 120	
Toluene	50.0	55.5	111	72 - 120	
1,1,1-Trichloroethane	50.0	48.9	98	67 - 143	
Trichloroethene	50.0	53.8	108	78 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	58 - 140
Toluene-d8 (Surr)	117	80 - 126
4-Bromofluorobenzene (Surr)	103	76 - 127
Dibromofluoromethane (Surr)	107	75 - 121

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59928

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-14026-1	Analysis Batch:	280-60142	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-59928	Lab File ID:	J5790.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.030 g
Analysis Date:	03/30/2011 1715			Final Weight/Volume:	5 mL
Prep Date:	03/30/2011 1340				
Leach Date:	N/A				

MSD Lab Sample ID:	280-14026-1	Analysis Batch:	280-60142	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-59928	Lab File ID:	J5791.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.957 g
Analysis Date:	03/30/2011 1738			Final Weight/Volume:	5 mL
Prep Date:	03/30/2011 1340				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	104	100	76 - 120	3	20		
Bromodichloromethane	93	91	74 - 125	1	20		
Carbon tetrachloride	87	87	69 - 147	2	20		
Chlorobenzene	101	98	74 - 120	2	20		
Chloroform	93	90	77 - 125	2	20		
1,3-Dichlorobenzene	101	96	74 - 120	4	20		
1,1-Dichloroethane	98	95	74 - 120	2	20		
trans-1,2-Dichloroethene	103	100	80 - 127	2	20		
1,1-Dichloroethene	98	98	77 - 143	1	20		
1,2-Dichloropropane	104	99	74 - 120	4	20		
Ethylbenzene	103	100	78 - 120	1	20		
Methylene Chloride	106	103	76 - 137	1	21		
Tetrachloroethene	93	91	71 - 120	1	20		
Toluene	99	96	72 - 120	1	20		
1,1,1-Trichloroethane	86	85	67 - 143	0	20		
Trichloroethene	94	93	78 - 120	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	99	58 - 140
Toluene-d8 (Surr)	110	111	80 - 126
4-Bromofluorobenzene (Surr)	98	100	76 - 127
Dibromofluoromethane (Surr)	101	100	75 - 121

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Method Blank - Batch: 280-60044

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-60044/1-A	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-60044	Lab File ID:	Y9182.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.5 g
Analysis Date:	03/31/2011 1607	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 2055			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.8	U	9.8	310
Acenaphthylene	16	U	16	310
Anthracene	16	U	16	310
Benzo[a]anthracene	19	U	19	310
Benzo[a]pyrene	19	U	19	310
Benzo[b]fluoranthene	25	U	25	310
Benzo[ghi]perylene	15	U	15	310
Benzo[k]fluoranthene	38	U	38	310
Bis(2-chloroethoxy)methane	22	U	22	310
Bis(2-chloroethyl)ether	16	U	16	310
bis (2-chloroisopropyl) ether	22	U	22	310
Bis(2-ethylhexyl) phthalate	44	U	44	310
4-Bromophenyl phenyl ether	18	U	18	310
Butyl benzyl phthalate	41	U	41	310
Carbazole	34	U	34	310
4-Chloroaniline	78	U	78	310
4-Chloro-3-methylphenol	63	U	63	310
2-Chloronaphthalene	9.5	U	9.5	310
2-Chlorophenol	20	U	20	310
4-Chlorophenyl phenyl ether	20	U	20	310
Chrysene	26	U	26	310
Dibenz(a,h)anthracene	18	U	18	310
Dibenzofuran	19	U	19	310
1,2-Dichlorobenzene	21	U	21	310
1,3-Dichlorobenzene	11	U	11	310
1,4-Dichlorobenzene	13	U	13	310
3,3'-Dichlorobenzidine	86	U	86	630
2,4-Dichlorophenol	9.5	U	9.5	310
Diethyl phthalate	25	U	25	310
2,4-Dimethylphenol	63	U	63	310
Dimethyl phthalate	22	U	22	310
Di-n-butyl phthalate	28	U	28	310
4,6-Dinitro-2-methylphenol	310	U	310	630
2,4-Dinitrophenol	320	U	320	790
2,4-Dinitrotoluene	63	U	63	310
2,6-Dinitrotoluene	27	U	27	310
Di-n-octyl phthalate	14	U	14	310
Fluoranthene	34	U	34	310
Fluorene	17	U	17	310
Hexachlorobenzene	28	U	28	310
Hexachlorobutadiene	9.5	U	9.5	310
Hexachlorocyclopentadiene	48	U	48	310
Hexachloroethane	20	U	20	310
Indeno[1,2,3-cd]pyrene	21	U	21	310
Isophorone	16	U	16	310

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Method Blank - Batch: 280-60044

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-60044/1-A	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-60044	Lab File ID:	Y9182.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.5 g
Analysis Date:	03/31/2011 1607	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 2055			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	18	U	18	310
2-Methylphenol	12	U	12	310
3 & 4 Methylphenol	31	U	31	310
Naphthalene	30	U	30	310
2-Nitroaniline	48	U	48	310
3-Nitroaniline	70	U	70	310
4-Nitroaniline	69	U	69	310
Nitrobenzene	21	U	21	310
2-Nitrophenol	9.5	U	9.5	310
4-Nitrophenol	92	U	92	630
N-Nitrosodi-n-propylamine	30	U	30	310
N-Nitrosodiphenylamine	20	U	20	310
Pentachlorophenol	310	U	310	630
Phenanthrene	16	U	16	310
Phenol	17	U	17	310
Pyrene	12	U	12	310
1,2,4-Trichlorobenzene	27	U	27	310
2,4,5-Trichlorophenol	9.5	U	9.5	310
2,4,6-Trichlorophenol	9.5	U	9.5	310

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	92	50 - 120
2-Fluorophenol	92	53 - 120
Nitrobenzene-d5	89	50 - 120
Phenol-d5	92	52 - 120
Terphenyl-d14	99	55 - 120
2,4,6-Tribromophenol	81	51 - 120

Method Blank TICs- Batch: 280-60044

Cas Number	Analyte	RT	Est. Result	Qual
2213-23-2	Heptane, 2,4-dimethyl-	3.01	219	N J
2216-30-0	Heptane, 2,5-dimethyl-	3.13	291	N J
	Unknown	1.78	136	N J
	Unknown	2.96	171	N J
	Unknown	3.20	3260	N J

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-60044

Method: 8270C
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-60044/2-A	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-60044	Lab File ID:	Y9183.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	03/31/2011 1628	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 2055			Injection Volume:	0.5 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-60044/3-A	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-60044	Lab File ID:	Y9184.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	03/31/2011 1648	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 2055			Injection Volume:	0.5 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acenaphthene	81	86	52 - 120	5	30		
Anthracene	87	90	57 - 120	2	30		
Carbazole	87	89	54 - 120	1	30		
4-Chloro-3-methylphenol	84	90	57 - 120	5	30		
2-Chlorophenol	79	87	53 - 120	7	30		
1,4-Dichlorobenzene	73	81	46 - 120	9	30		
2,4-Dinitrotoluene	87	92	53 - 120	5	30		
2-Methylnaphthalene	79	86	55 - 120	7	30		
2-Methylphenol	81	88	51 - 120	7	30		
4-Nitrophenol	86	92	41 - 120	5	30		
N-Nitrosodi-n-propylamine	78	86	51 - 120	7	30		
Pentachlorophenol	81	81	30 - 120	2	30		
Phenol	81	88	54 - 120	6	30		
Pyrene	86	90	50 - 120	3	38		
1,2,4-Trichlorobenzene	72	79	50 - 120	8	30		
2,4,6-Trichlorophenol	82	91	50 - 120	9	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl	82	86	50 - 120
2-Fluorophenol	80	89	53 - 120
Nitrobenzene-d5	79	87	50 - 120
Phenol-d5	81	88	52 - 120
Terphenyl-d14	87	89	55 - 120
2,4,6-Tribromophenol	83	87	51 - 120

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Method Blank - Batch: 280-60019

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-60019/1-A	Analysis Batch:	280-60554	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-60019	Lab File ID:	092F9201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	04/02/2011 1952	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	03/30/2011 1903			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.7	U	2.7	9.7
Aroclor 1221	7.8	U	7.8	16
Aroclor 1232	1.9	U	1.9	9.7
Aroclor 1242	4.5	U	4.5	9.7
Aroclor 1248	4.5	U	4.5	9.7
Aroclor 1254	2.5	U	2.5	9.7
Aroclor 1260	2.5	U	2.5	9.7

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	102	59 - 130
Tetrachloro-m-xylene	94	53 - 128

Lab Control Sample - Batch: 280-60019

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-60019/2-A	Analysis Batch:	280-60554	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-60019	Lab File ID:	093F9301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.5 g
Analysis Date:	04/02/2011 2023	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	03/30/2011 1903			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	30.8	33.0	107	54 - 132	
Aroclor 1260	30.8	35.3	115	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	106	59 - 130
Tetrachloro-m-xylene	103	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-60019

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-14026-1	Analysis Batch:	280-60554	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-60019	Lab File ID:	095F9501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	04/02/2011 2127			Final Weight/Volume:	5000 uL
Prep Date:	03/30/2011 1903			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-14026-1	Analysis Batch:	280-60554	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-60019	Lab File ID:	096F9601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	04/02/2011 2159			Final Weight/Volume:	5000 uL
Prep Date:	03/30/2011 1903			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	304	238	54 - 132	23	26	N	N
Aroclor 1260	-5	-18	62 - 129	7	26	N	N

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	96	96	59 - 130
Tetrachloro-m-xylene	97	96	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Method Blank - Batch: 280-60053

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-60053/1-A	Analysis Batch:	280-60564	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-60053	Lab File ID:	068B2101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	04/01/2011 0141	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	990	U	990	4000
C10-C28	680	U	680	4000

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	75	49 - 115

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-60053

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-60053/2-A	Analysis Batch:	280-60564	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-60053	Lab File ID:	069B2201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.6 g
Analysis Date:	04/01/2011 0214	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-60053/3-A	Analysis Batch:	280-60564	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-60053	Lab File ID:	070B2301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.0 g
Analysis Date:	04/01/2011 0246	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	91	89	57 - 115	4	23		
C10-C28	91	89	53 - 115	4	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	76	76	49 - 115

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Method Blank - Batch: 280-60048

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-60048/1-A	Analysis Batch:	280-60216	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-60048	Lab File ID:	G0331012.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	03/31/2011 1923	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	03/30/2011 2222			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.8	U	9.8	98
Acenaphthylene	8.9	U	8.9	98
Anthracene	3.0	U	3.0	20
Benzo[a]anthracene	3.1	U	3.1	15
Benzo[a]pyrene	6.3	U	6.3	15
Benzo[b]fluoranthene	4.1	U	4.1	15
Benzo[g,h,i]perylene	7.1	U	7.1	30
Benzo[k]fluoranthene	3.9	U	3.9	15
Chrysene	4.8	U	4.8	39
Dibenzo(a,h)anthracene	11	U	11	30
Fluoranthene	13	U	13	39
Fluorene	5.2	U	5.2	30
Indeno[1,2,3-cd]pyrene	12	U	12	30
Naphthalene	12	U	12	98
Phenanthrene	12	U	12	39
Pyrene	12	U	12	39

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	98	72 - 115

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-60048

Method: 8310
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-60048/2-A	Analysis Batch:	280-60216	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-60048	Lab File ID:	G0331013.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	03/31/2011 1953	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	03/30/2011 2222			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 280-60048/3-A	Analysis Batch:	280-60216	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-60048	Lab File ID:	G0331014.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.3 g
Analysis Date:	03/31/2011 2024	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	03/30/2011 2222			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acenaphthene	95	99	72 - 115	1	20		
Acenaphthylene	98	101	60 - 115	1	21		
Anthracene	89	92	61 - 115	0	20		
Benzo[a]anthracene	107	111	76 - 115	0	20		
Benzo[a]pyrene	85	89	69 - 115	1	20		
Benzo[b]fluoranthene	103	108	81 - 115	1	20		
Benzo[g,h,i]perylene	98	101	71 - 115	0	20		
Benzo[k]fluoranthene	104	109	85 - 115	0	20		
Chrysene	103	108	70 - 115	1	20		
Dibenzo(a,h)anthracene	104	109	79 - 115	0	20		
Fluoranthene	103	107	67 - 115	0	20		
Fluorene	101	105	72 - 115	0	20		
Indeno[1,2,3-cd]pyrene	108	113	76 - 115	0	20		
Naphthalene	105	109	77 - 115	0	20		
Phenanthrene	102	107	79 - 115	0	20		
Pyrene	103	107	77 - 115	0	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	95	99	72 - 115

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Method Blank - Batch: 280-60003

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-60003/1-A	Analysis Batch:	280-60525	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-60003	Lab File ID:	26A040111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/01/2011 1454	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Arsenic	0.66	U	0.66	1.0
Barium	0.118	B	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.8	U	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.451	B	0.40	1.0
Zirconium	0.35	U	0.35	2.5

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Lab Control Sample - Batch: 280-60003

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-60003/2-A	Analysis Batch:	280-60525	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-60003	Lab File ID:	26A040111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/01/2011 1456	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	202.2	101	82 - 116	
Antimony	50.0	51.60	103	82 - 110	
Arsenic	100	105.4	105	85 - 110	
Barium	200	202.9	101	87 - 112	
Beryllium	5.00	5.08	102	84 - 114	
Boron	100	96.79	97	81 - 110	
Cadmium	10.0	9.84	98	87 - 110	
Calcium	5000	4962	99	82 - 114	
Chromium	20.0	20.65	103	84 - 114	
Cobalt	50.0	50.74	101	87 - 110	
Copper	25.0	25.67	103	88 - 110	
Iron	100	106.6	107	87 - 120	
Lead	50.0	52.67	105	86 - 110	
Magnesium	5000	5009	100	90 - 110	
Manganese	50.0	50.74	101	88 - 110	
Molybdenum	100	109.9	110	86 - 110	
Nickel	50.0	52.08	104	87 - 110	
Potassium	5000	5168	103	89 - 110	
Selenium	200	212.2	106	83 - 110	
Silicon	1000	326.2	33	10 - 70	
Silver	5.00	5.07	101	87 - 114	
Sodium	5000	5314	106	90 - 112	
Vanadium	50.0	50.83	102	88 - 110	
Zinc	50.0	50.54	101	76 - 114	
Zirconium	50.0	53.53	107	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Matrix Spike - Batch: 280-60003

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14026-1	Analysis Batch:	280-60525	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-60003	Lab File ID:	26A040111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	04/01/2011 1505	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	4730		208	6801	991	50 - 200	4
Antimony	0.38	B	52.1	30.11	57	20 - 200	
Arsenic	1.9		104	91.64	86	76 - 111	
Barium	47.7		208	221.3	83	52 - 159	
Beryllium	0.033	U	5.21	3.89	75	72 - 105	
Boron	0.97	U	104	83.60	80	75 - 107	
Cadmium	0.064	B	10.4	8.80	84	40 - 130	
Calcium	3010		5210	9326	121	43 - 165	
Chromium	42.7		20.8	67.61	119	70 - 200	
Cobalt	6.0		52.1	50.50	85	72 - 106	
Copper	16.9		26.1	40.48	91	37 - 187	
Iron	19300		104	23560	4069	70 - 200	4
Lead	11.2		52.1	58.29	90	70 - 200	
Magnesium	3040		5210	8246	100	64 - 145	
Manganese	234		52.1	334.5	193	40 - 200	4
Molybdenum	0.46	B	104	94.20	90	75 - 103	
Nickel	8.4		52.1	54.71	89	61 - 126	
Potassium	619		5210	5348	91	56 - 172	
Selenium	0.85	U	208	185.6	89	76 - 104	
Silicon	187		1040	590.8	39	20 - 200	
Silver	0.16	U	5.21	4.56	88	75 - 141	
Sodium	210		5210	5334	98	78 - 111	
Vanadium	55.6		52.1	119.2	122	50 - 169	
Zinc	42.7		52.1	94.68	100	70 - 200	
Zirconium	24.9		52.1	79.34	104	75 - 125	

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Duplicate - Batch: 280-60003

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14026-1	Analysis Batch:	280-60525	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-60003	Lab File ID:	26A040111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	04/01/2011 1503	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	4730		4592	3	40	
Antimony	0.38	B	0.37	NC	40	U
Arsenic	1.9		1.57	19	30	
Barium	47.7		41.58	14	30	
Beryllium	0.033	U	0.032	NC	30	U
Boron	0.97	U	0.95	NC	30	U
Cadmium	0.064	B	0.0570	11	30	B
Calcium	3010		3067	2	30	
Chromium	42.7		48.19	12	40	
Cobalt	6.0		5.71	4	30	
Copper	16.9		16.84	0.2	30	
Iron	19300		20070	4	40	
Lead	11.2		12.27	9	40	
Magnesium	3040		2901	5	30	
Manganese	234		223.9	4	40	
Molybdenum	0.46	B	0.25	NC	30	U
Nickel	8.4		8.37	0.1	30	
Potassium	619		623.9	0.8	40	
Selenium	0.85	U	0.83	NC	30	U
Silicon	187		187.9	0.5	40	
Silver	0.16	U	0.15	NC	30	U
Sodium	210		208.9	0.4	30	
Vanadium	55.6		62.74	12	30	
Zinc	42.7		44.32	4	40	
Zirconium	24.9		27.08	8	30	

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Method Blank - Batch: 280-60099

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-60099/1-A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-60099	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 2132	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-60099

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-60099/2-A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-60099	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 2134	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.438	105	87 - 111	

Matrix Spike - Batch: 280-60099

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-14026-1	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-60099	Lab File ID:	110331AD.txt
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	0.67 g
Analysis Date:	03/31/2011 2329	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.98	0.397	1.50	132	87 - 111	N

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Duplicate - Batch: 280-60099

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-14026-1	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-60099	Lab File ID:	110331AD.txt
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	0.62 g
Analysis Date:	03/31/2011 2327	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.98	1.10	12	20	

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Method Blank - Batch: 280-60203

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-60195/1-A	Analysis Batch:	280-60203	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0331BNXN
Dilution:	1.0	Leach Batch:	280-60195	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/31/2011 1436	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	03/31/2011 1100				

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N-Soluble	0.35	U	0.35	0.74

Method Reporting Limit Check - Batch: 280-60203

Method: 353.2
Preparation: N/A

Lab Sample ID:	MRL 280-60203/17	Analysis Batch:	280-60203	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0331BNXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	03/31/2011 1157	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	0.0879	88	50 - 150	B

Lab Control Sample - Batch: 280-60203

Method: 353.2
Preparation: N/A

Lab Sample ID:	LCS 280-60195/2-A	Analysis Batch:	280-60203	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0331BNXN
Dilution:	1.0	Leach Batch:	280-60195	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/31/2011 1437	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	03/31/2011 1100				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	49.0	47.21	96	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Matrix Spike - Batch: 280-60203

Method: 353.2
Preparation: N/A

Lab Sample ID:	280-14026-1	Analysis Batch:	280-60203	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0331BNXN
Dilution:	1.0	Leach Batch:	280-60195	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/31/2011 1442	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	03/31/2011 1100				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	71.7	40.9	112.9	101	90 - 110	

Duplicate - Batch: 280-60203

Method: 353.2
Preparation: N/A

Lab Sample ID:	280-14026-1	Analysis Batch:	280-60203	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0331BNXN
Dilution:	1.0	Leach Batch:	280-60195	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/31/2011 1440	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	03/31/2011 1100				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Nitrate Nitrite as N-Soluble	71.7	68.91	4	10	

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Method Blank - Batch: 280-60656

Method: 9034
Preparation: 9030B

Lab Sample ID:	MB 280-60656/4-A	Analysis Batch:	280-60664	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	280-60656	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.08 g
Analysis Date:	04/04/2011 1732	Units:	mg/Kg	Final Weight/Volume:	250 mL
Prep Date:	04/04/2011 1622				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Sulfide	2.4	U	2.4	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-60656

Method: 9034
Preparation: 9030B

LCS Lab Sample ID:	LCS 280-60656/2-A	Analysis Batch:	280-60664	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	280-60656	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.35 g
Analysis Date:	04/04/2011 1732	Units:	mg/Kg	Final Weight/Volume:	250 mL
Prep Date:	04/04/2011 1622				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-60656/3-A	Analysis Batch:	280-60664	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	280-60656	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.81 g
Analysis Date:	04/04/2011 1732	Units:	mg/Kg	Final Weight/Volume:	250 mL
Prep Date:	04/04/2011 1622				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Sulfide	68	65	47 - 100	7	35		

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-60185

Method: 9045C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-60185/4	Analysis Batch:	280-60185	Instrument ID:	WC_pH Probe
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/31/2011 0943	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-60185/5	Analysis Batch:	280-60185	Instrument ID:	WC_pH Probe
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/31/2011 0944	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
pH adj. to 25 deg C-Soluble	101	101	97 - 103	0	5		

Duplicate - Batch: 280-60185

Method: 9045C
Preparation: N/A

Lab Sample ID:	280-14026-1	Analysis Batch:	280-60185	Instrument ID:	WC_pH Probe
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	280-60098	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/31/2011 1005	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	03/31/2011 0831				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH adj. to 25 deg C-Soluble	7.58	7.600	0.3	5	

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Method Blank - Batch: 280-60204

Method: 9056M
Preparation: N/A

Lab Sample ID:	MB 280-59988/2-A	Analysis Batch:	280-60204	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	123.TXT
Dilution:	1.0	Leach Batch:	280-59988	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/30/2011 1815	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	03/30/2011 1447				

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: 280-60204

Method: 9056M
Preparation: N/A

Lab Sample ID:	MRL 280-60204/3	Analysis Batch:	280-60204	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:	03/30/2011 1301	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	0.194	97	50 - 150	B
Nitrite as N-Soluble	0.200	0.191	96	50 - 150	B
Orthophosphate as P-Soluble	0.200	0.201	100	50 - 150	B

Lab Control Sample - Batch: 280-60204

Method: 9056M
Preparation: N/A

Lab Sample ID:	LCS 280-59988/1-A	Analysis Batch:	280-60204	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	122.TXT
Dilution:	1.0	Leach Batch:	280-59988	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/30/2011 1759	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	03/30/2011 1447				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	50.0	50.85	102	90 - 110	
Nitrite as N-Soluble	50.0	49.50	99	90 - 110	
Orthophosphate as P-Soluble	50.0	51.29	103	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Matrix Spike - Batch: 280-60204

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-14026-1	Analysis Batch:	280-60204	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	126.TXT
Dilution:	1.0	Leach Batch:	280-59988	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/30/2011 1906	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	03/30/2011 1447				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	84.1		53.2	135.7	97	80 - 120	
Nitrite as N-Soluble	0.36	U	53.2	53.10	100	80 - 120	
Orthophosphate as P-Soluble	1.3	U	53.2	6.42	12	80 - 120	N

Duplicate - Batch: 280-60204

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-14026-1	Analysis Batch:	280-60204	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	125.TXT
Dilution:	1.0	Leach Batch:	280-59988	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/30/2011 1849	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	03/30/2011 1447				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Nitrate as N-Soluble	84.1		84.31	0.3	15	
Nitrite as N-Soluble	0.36	U	0.36	NC	15	U
Orthophosphate as P-Soluble	1.3	U	1.3	NC	15	U

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Method Blank - Batch: 280-60205

Method: 9056M
Preparation: N/A

Lab Sample ID:	MB 280-59988/2-A	Analysis Batch:	280-60205	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	123.TXT
Dilution:	1.0	Leach Batch:	280-59988	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/30/2011 1815	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	03/30/2011 1447				

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: 280-60205

Method: 9056M
Preparation: N/A

Lab Sample ID:	MRL 280-60205/3	Analysis Batch:	280-60205	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:	03/30/2011 1301	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	0.993	99	50 - 150	B
Bromide-Soluble	0.200	0.209	104	50 - 150	B
Sulfate-Soluble	1.00	0.982	98	50 - 150	B
Fluoride-Soluble	0.200	0.187	94	50 - 150	B

Lab Control Sample - Batch: 280-60205

Method: 9056M
Preparation: N/A

Lab Sample ID:	LCS 280-59988/1-A	Analysis Batch:	280-60205	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	122.TXT
Dilution:	1.0	Leach Batch:	280-59988	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/30/2011 1759	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	03/30/2011 1447				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	250	252.8	101	90 - 110	
Bromide-Soluble	50.0	50.58	101	90 - 110	
Sulfate-Soluble	250	255.7	102	90 - 110	
Fluoride-Soluble	50.0	51.59	103	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Matrix Spike - Batch: 280-60205

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-14026-1	Analysis Batch:	280-60205	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	126.TXT
Dilution:	1.0	Leach Batch:	280-59988	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/30/2011 1906	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	03/30/2011 1447				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	4.1	B	266	273.3	101	80 - 120	
Bromide-Soluble	0.41	U	53.2	51.89	98	80 - 120	
Sulfate-Soluble	135		266	446.1	117	80 - 120	
Fluoride-Soluble	1.6	B	53.2	33.73	60	80 - 120	N

Duplicate - Batch: 280-60205

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-14026-1	Analysis Batch:	280-60205	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	125.TXT
Dilution:	1.0	Leach Batch:	280-59988	Initial Weight/Volume:	1.0 mL
Analysis Date:	03/30/2011 1849	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	03/30/2011 1447				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chloride-Soluble	4.1	B	4.15	0.3	15	B
Bromide-Soluble	0.41	U	0.41	NC	15	U
Sulfate-Soluble	135		135.9	0.7	15	
Fluoride-Soluble	1.6	B	1.62	1	15	B

Client: Washington Closure Hanford

Job Number: 280-14026-1
Sdg Number: JP0144

Duplicate - Batch: 280-60112

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-14026-1	Analysis Batch:	280-60112	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/31/2011 0931	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	5.9	6.2	5	20	

4.4°C IRFP 3/30/11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-149-081	Page 1 of 1

Collector Q. Stowe	**Company Contact** Joan Kessner	**Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH
Price Code ~~8L~~ DH 3/28/11 85	**Data Turnaround** ~~21~~ 7 Days DH 3/28/11		
Project Designation 300 Area Field Remediation - Soil In-Process	**Sampling Location** 300-15 at 321 Building		**SAF No.** RC-149
Ice Chest No. ERC-02-803	**Field Logbook No.** EL-1395-18	**COA** R300152600	**Method of Shipment** FedEx/Hand Deliever
Shipped To DH 3/28/11 TestAmerica Incorporated, ~~Richland~~ DENVER	**Offsite Property No.** NA		**Bill of Lading/Air Bill No.** 7945 8716 4734

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radioactive < DOT Limits JEB 3-29-11

Special Handling and/or Storage

Cool 4C

Preservation	Cool 4C	Cool 4C	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None
Type of Container	G/P	G/P	G/P	aG	G	aG	aG	aG	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	1	1	1
Volume	60g	60mL	60mL	60mL	60mL	60mL	60mL	60mL	60mL	60g
SAMPLE ANALYSIS	See item (1) in Special Instructions.	IC Anions - 300.0; NO2/NO3 - 353.2	pH (Soil) - 9045; Sulfides - 9030	TPH-Diesel Range - WTPH-D +	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Gross Alpha & Gross Beta	RCF GEA Shipping Screen

Sample No.	Matrix *	Sample Date	Sample Time										RCF
J1H056	SOIL	3/28/11	1315	X	X	X	X	X	X	X	X		27424

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	03/28/11 1420	Dontel Delberg	3/28/11 1420
Dontel Delberg	3/28/11 1600	J.E. Berg	3-28-11 1600
J.E. Berg WCH	3-29-11 1030	FED EX	
			3/30/11 930

SPECIAL INSTRUCTIONS

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

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

REVIEWED BY KF DATE 3-29-11

JP0144

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 - 601 OTR - Solid

Analytical Due:

Report Due: 4/6/11 (Rush 5 day TAT)

Sample Check-in List

Date/Time Received: 3/30/11 930 **GM Screen Result** 12 **microR/hr**

Client: Washington Closure Hanford **SDG #:** JP0144 **NA[ ]** **SAF #:** RC-149 **NA [ ]**

Job Number: 14026 **Chain of Custody #** RC-149-081

Shipping Container ID: ERC-02-803 **Air Bill #** 7945 9716 4734

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: 4.4 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:** 3/30/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager [signature] Date 3/31/11

LS-023, Rev. 7, 1/08

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

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 29MAR11
ActWgt: 34.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

Ref #
Invoice #
PO #
Dept #

WED - 30 MAR A1
PRIORITY OVERNIGHT

TRK# 0201 7945 8716 4734

XH WHHA

80002
CO-US
DEN

50DG3/28A8/7EFB

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.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic valueof the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Analytical Data Package Prepared For

Washington Closure Hanford

Radiochemical Analysis By

TestAmerica

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: TARL

Data Package Contains 25 *Pages*

Report No.: 46205

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
JP0144	RC-149	J1H056	J1C290570-1	MGAX31AA	9MGAX310	1088334
		J1H056	J1C290570-1	MGAX31AC	9MGAX310	1088335

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

TestAmerica Laboratories, Inc.

April 14, 2011

Attention: Joan Kessner

SAF Number	:	RC-149
Date SDG Closed	:	March 29, 2011
Number of Samples	:	One (1)
Sample Type	:	Soil
SDG Number	:	JP0144
Data Deliverable	:	7– Day / Summary

CASE NARRATIVE

I. Introduction

On March 29, 2011 one soil sample was received at TestAmerica for radiochemical analysis. Upon receipt, the sample was assigned the following laboratory ID number to correspond with the Washington Closure Hanford (WCH) specific ID:

WCH ID#	TARL ID#	MATRIX	DATE OF RECEIPT
J1H056	MGAX3	SOIL	3/29/11

II. Sample Receipt

The sample was received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RL-GPC-001
Gross Beta by method RL-GPC-001

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RL-GPC-001:
The LCS, batch blank, sample and sample duplicate (J1H056) results are within contractual requirements.

Gross Beta by method RL-GPC-001 :
The LCS, batch blank, sample and sample duplicate (J1H056) results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. 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 following signature.

Reviewed and approved:

Rhonda Wagar
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**TestAmerica Richland's SOP No.**
EPA 901.1	Cs-134, I-131	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D5174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/? n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) ***u_c - Combined Uncertainty.***	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, ***u_c the combined uncertainty.*** The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

Date: 14-Apr-11

TestAmerica TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 46205

SDG No: JP0144

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1088334 9310_ALPHABETA_GPC									
J1H056									
	MGAX31AA	ALPHA	1.74E+01 +- 6.6E+00		pCi/g	100%	4.45E+00	1.00E+01	
J1H056 DUP									
	MGAX31AD	ALPHA	1.71E+01 +- 6.5E+00		pCi/g	100%	4.29E+00	1.00E+01	1.5
1088335 9310_ALPHABETA_GPC									
J1H056									
	MGAX31AC	BETA	3.70E+01 +- 6.7E+00		pCi/g	100%	4.59E+00	1.50E+01	
J1H056 DUP									
	MGAX31AE	BETA	3.23E+01 +- 6.1E+00		pCi/g	100%	4.75E+00	1.50E+01	13.6

No. of Results: 4

TestAmerica RPD - Relative Percent Difference.

rptSTLRchSaSum
mary2 V5.2.12
A2002

QC Results Summary

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Date: 14-Apr-11

Report No. : 46205

SDG No.: JP0144

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
9310_ALPHABETA_GPC								
1088334 BLANK QC,								
MGA5H1AA	ALPHA	-4.16E-01 +- 8.0E-01	U	pCi/g	100%			2.27E+00
1088334 LCS,								
MGA5H1AC	ALPHA	9.01E+01 +- 2.0E+01		pCi/g	100%	100%	0.0	1.97E+00
9310_ALPHABETA_GPC								
1088335 BLANK QC,								
MGA5L1AA	BETA	1.13E+00 +- 1.8E+00	U	pCi/g	100%			4.02E+00
1088335 LCS,								
MGA5L1AC	BETA	6.78E+01 +- 9.9E+00		pCi/g	100%	100%	0.0	3.72E+00

No. of Results: 4

TestAmerica
rptSTLRchQcSummary V5.2.12
A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 14-Apr-11

Lab Name:	TestAmerica	SDG:	JP0144	Collection Date:	3/28/2011 1:15:00 PM
Lot-Sample No.:	J1C290570-1	Report No. :	46205	Received Date:	3/29/2011 11:10:00 AM
Client Sample ID:	J1H056	COC No. :	RC-149-081	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1088334	9310_ALPHABETA_GPC			Work Order:	MGAX31AA		Report DB ID:	9MGAX310				
ALPHA	***1.74E+01***		5.5E+00	6.6E+00	4.45E+00	pCi/g	100%	*(3.9)*	4/5/11 07:42 p		0.0502	GPC10A
						1.70E+00	1.00E+01	*(5.3)*			g	
Batch: 1088335	9310_ALPHABETA_GPC			Work Order:	MGAX31AC		Report DB ID:	9MGAX310				
BETA	***3.70E+01***		4.7E+00	6.7E+00	4.59E+00	pCi/g	100%	*(8.1)*	4/5/11 05:38 p		0.2002	GPC26D
						2.13E+00	1.50E+01	*(11.)*			g	

No. of Results: 2 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 14-Apr-11

Lab Name:	TestAmerica	SDG:	JP0144	Collection Date:	3/28/2011 1:15:00 PM
Lot-Sample No.:	J1C290570-1	Report No. :	46205	Received Date:	3/29/2011 11:10:00 AM
Client Sample ID:	J1H056	COC No. :	RC-149-081	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

TestAmerica
rptSTLRchSample
V5.2.12 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

TestAmerica Laboratories, Inc.

FORM II

Date: 14-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0144	**Collection Date:**	3/28/2011 1:15:00 PM
Lot-Sample No.:	J1C290570-1	**Report No. :**	46205	**Received Date:**	3/29/2011 11:10:00 AM
Client Sample ID:	J1H056 DUP	**COC No. :**	RC-149-081	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1088334	9310_ALPHABETA_GPC			**Work Order:** MGAX31AD		**Report DB ID:** MGAX31DR			**Orig Sa DB ID:** 9MGAX310			
ALPHA	1.71E+01		5.5E+00	6.5E+00	4.29E+00	pCi/g	100%	(4.)	4/5/11 07:42 p		0.0505	GPC10B
	1.74E+01		**RPD**	**1.5**		1.00E+01		(5.3)			g	
Batch: 1088335	9310_ALPHABETA_GPC			**Work Order:** MGAX31AE		**Report DB ID:** MGAX31ER			**Orig Sa DB ID:** 9MGAX310			
BETA	3.23E+01		4.5E+00	6.1E+00	4.75E+00	pCi/g	100%	(6.8)	4/5/11 05:38 p		0.2003	GPC26C
	3.70E+01		**RPD**	**13.6**		1.50E+01		(10.5)			g	

10

No. of Results: 2 Comments:

FORM II

BLANK RESULTS

Date: 14-Apr-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0144

Report No. : 46205

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1088334	9310_ALPHABETA_GPC			**Work Order:**	MGA5H1AA		**Report DB ID:**	MGA5H1AB				
ALPHA	-4.16E-01	U	8.0E-01	8.0E-01	2.27E+00	pCi/g	100%	-0.18	4/5/11 07:42 p		0.0596	GPC10C
					9.09E-01	1.00E+01		-(1.)			g	
Batch: 1088335	9310_ALPHABETA_GPC			**Work Order:**	MGA5L1AA		**Report DB ID:**	MGA5L1AB				
BETA	1.13E+00	U	1.8E+00	1.8E+00	4.02E+00	pCi/g	100%	0.28	4/5/11 05:38 p		0.2034	GPC26A
					1.88E+00	1.50E+01		(1.2)			g	

No. of Results: 2 Comments:

TestAmerica
rptSTLRchBlank
V5.2.12 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

FORM II

LCS RESULTS

Date: 14-Apr-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0144

Report No. : 46205

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 1088334	9310_ALPHABETA_GPC			Work Order:	MGA5H1AC		Report DB ID:	MGA5H1CS					
ALPHA	9.01E+01		8.4E+00	2.0E+01	1.97E+00	pCi/g	100%	8.96E+01	9.1E-01	100%	4/5/11 07:42 p	0.0524	GPC10D
							Rec Limits:	70	130	0.0		g	
Batch: 1088335	9310_ALPHABETA_GPC			Work Order:	MGA5L1AC		Report DB ID:	MGA5L1CS					
BETA	6.78E+01		5.4E+00	9.9E+00	3.72E+00	pCi/g	100%	6.76E+01	2.6E+00	100%	4/5/11 05:38 p	0.2023	GPC26B
							Rec Limits:	70	130	0.0		g	

No. of Results: 2 Comments:

TestAmerica Bias - (Result/Expected)-1 as defined by ANSI N13.30.

rptSTLRchLcs
V5.2.12 A2002

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/6/2011 10:15:02 AM

Lot No., Due Date: J1C290570; 04/05/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1088334; RALPHA-A Alpha by GPC-Am
SDG, Matrix: JP0144; SOIL

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?			N/A ✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			N/A ✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes ✓	No	N/A
4.0 Raw Data			
4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?			N/A ✓
4.4 Were spectra reviewed/meet contractual requirements?			N/A ✓
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A
5.0 Other			
5.1 Are all nonconformances included and noted?			N/A ✓
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes ✓	No	N/A
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:

Thomas D McE

First Level _____ **Date** 4/6/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1088334

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: [signature] Date: 4/6/11

LS-038B, Rev. 10, 9/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/6/2011 10:10:54 AM

Lot No., Due Date: J1C290570; 04/05/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1088335; RBETA-SR Beta by GPC-Sr/Y
SDG, Matrix: JP0144; SOIL

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	N/A ✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	N/A ✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes ✓	No	N/A
4.0 Raw Data			
4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes	No	N/A ✓
4.4 Were spectra reviewed/meet contractual requirements?	Yes	No	N/A ✓
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A
5.0 Other			
5.1 Are all nonconformances included and noted?	Yes	No	N/A ✓
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes ✓	No	N/A
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:

Thomas D M

First Level _____ **Date** 4/6/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1088335

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		✓
C. Other 1. Are all Non-conformances included and noted?			
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: CRDL: 15.0 pci/g

Second Level Review: [signature] Date: 4/14/11

LS-038B, Rev. 10, 9/07

TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-149-081	Page 1 of 1
Collector: Q. Stowe	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ DH 3/28/11; 8J	Data Turnaround: DH 3/28/11 ~~21~~ 7 Days
Project Designation: 300 Area Field Remediation - Soil In-Process	Sampling Location: 300-15 at 321 Building	SAF No.: RC-149	
Ice Chest No. N/A	Field Logbook No.: EL-1395-18; COA: R300152600	Method of Shipment: FedEx/Hand Deliver	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radioactive < DOT Limits Lot#J1C290570 AJ 3-29-11 SDG# JP0144 Due 4.5.11

Special Handling and/or Storage

~~Cool 4C~~ NONE

DH 3/28/11

Preservation	Cool 4C	Cool 4C	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None
Type of Container	G/P	G/P	G/P	aG	G	aG	aG	aG	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	1	1	1
Volume	60g	60mL	60mL	60mL	60mL	60mL	60mL	60mL	60mL	60g
SAMPLE ANALYSIS	See item (1) in Special Instructions.	IC Anions - 300.0; NO2/NO3 - 353.2	pH (Soil) - 9045; Sulfides - 9030	TPH-Diesel Range - WTPH-D +	VOA - 8260A (TCL)	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Gross Alpha & Gross Beta	RCF/GEA Shipping Screen

Sample No.	Matrix *	Sample Date	Sample Time											
J1H056	SOIL	3/28/11	1315						MGAX3			X	27424

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	03/28/11 1420	Dottie Delbergh	3/28/11 1420
Dottie Delbergh	3/28/11 1600	J. E. Beard	3-28-11 1600
J. E. Beard WCH	3-29-11 1110	TALP Luis Velazquez	3/29/11 1110

SPECIAL INSTRUCTIONS

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

REVIEWED BY AJ DATE 3-29-11

JP0144

Matrix *: S=Soil; SE=Sediment; SO=Solid; SL=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

Apex™

Analysis Report for RCF27424

J1H056 SAF:RC-149 FF2/300-15 @ 321 BLDG

Non-Rg

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF27424
Sample Description	: J1H056 SAF:RC-149 FF2/300-15 @ 321 BLDG
Sample Type	: 80g pillbox
Sample Size	: 7.000E+01 grams
Facility	: Default
Sample Taken On	: 3/28/2011 1:15:00PM
Acquisition Started	: 3/28/2011 3:47:23PM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: GEA2703
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3601.1 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 2/2/2011
Efficiency Calibration Used Done On	: 2/23/2011
Efficiency Calibration Description	: GEA2703 80gPB 020311EC SN82752-238
Sample Number	: 12978

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.989	1.30E+01	2.64E+00	
RA-226d	@	0.405	2.86E-01 < MDA 2.93E-01	1.43E-01	
TH-232d		0.423	8.98E-01	1.85E-01	
U-235		0.542	3.81E-01	1.74E-01	
U-238d	@	0.994	7.91E+00	1.96E+00	

J1C290570

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 3-29-11 1110 GM Screen Result (out) .3 (in) .8 Initials CK

Client: WCH SDG #: JP0144 NA [ ] SAF #: RC-149 NA CK

Work Order Number: J1C290570 Chain of Custody # RC-149-081

Shipping Container ID: hand delivery NA [ ] Air Bill # _____ NA CK

Item 1 through 5 for shipping container only. Initial appropriate response.

1. Custody Seals on shipping container intact? Yes [CK] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [CK] No [ ] No Custody Seal [ ]
3. Chain of Custody record present? Yes [CK] No [ ]
4. Cooler temperature: ON ICE NA [CK] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 1 sample @ JAR 1X 60 ML G Per only
7. Sample holding times exceeded? NA [ ] Yes [ ] No [CK]
8. Samples have:
   CK tape custody seals (soil) ____ hazard labels
   CK appropriate sample labels
9. Samples:
   CK are in good condition ____ are leaking
   ____ are broken ____ have air bubbles (Only for samples requiring no head space)
10. Sample pH appropriate for analysis requested Yes [ ] No [ ] N/A [CK] (Note discrepancies in #13)
    (If acidification necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition)

    RPL ID # of preservative used : _____
11. Sample Location, Sample Collector Listed? * Yes [CK] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [CK]
13. Description of anomalies (include sample numbers): NA [CK] _____

See other side for additional comments

Sample Custodian: Carmen J Sys Date: 3-29-11 1110

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager Rhonda Fa Date 5/29/11

LS-023, Rev. 12, 10/10

TestAmerica Laboratories, Inc.

4/5/2011 4:35:29 PM

Sample Preparation/Analysis

Balance Id:1117411003

127642, Washington Closure Hanford LLC , Bechtel Hanford, Inc.

AY Gross Alpha Prp PRP003/GPC007
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 04/05/2011 JP0144

Sep1 DT/Tm Tech:

Batch: 1088334 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BaughB | Bak g

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MGAX3-1-AA J1C290570-1-SAMP 03/28/2011 13:15		0.0502g,in AmtRec: 1XJAR60MLG	#Containers: 1	1.5	50.2	100	10A Scr:	2034 Alpha:	4/05/11 KP Beta:	
2 MGAX3-1-AD-X J1C290570-1-DUP 03/28/2011 13:15		0.0505g,in AmtRec: 1XJAR60MLG	#Containers: 1		50.5		10B Scr:	Alpha:	Beta:	
3 MGA5H-1-AA-B J1C290000-334-BLK 03/29/2011 15:04 pd		0.0596g,in AmtRec:	#Containers: 1		1.3701 g 1.3700 g 0.1 mg		10C Scr:	Alpha:	Beta:	
4 MGA5H-1-AC-C J1C290000-334-LCS 03/29/2011 15:04 pd		0.0524g,in AmtRec:	ASD5086 01/25/11,pd 04/04/05 r #Containers: 1		1.4036 g 1.4034 g 0.2 mg		10D Scr:	Alpha:	Beta:	

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MGAX31AA-SAMP Constituent List:

ALPHA	RDL:1.00E+01	pCi/g	LCL:	UCL:	RPD:

MGA5H1AA-BLK:

ALPHA	RDL:1.00E+01	pCi/g	LCL:	UCL:	RPD:

MGA5H1AC-LCS:

Am-241	RDL:	pCi/g	LCL:70	UCL:130	RPD:35

MGAX31AA-SAMP Calc Info:

20

4/5/2011 4:35:29 PM

Sample Preparation/Analysis

AY Gross Alpha Prp PRP003/GPC007
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Balance Id:1117411003

Pipet #: _____

AnalyDueDate: 04/05/2011

Sep1 DT/Tm Tech:

Batch: 1088334 pCi/g

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BaughB

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

```
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MGA5H1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MGA5H1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

4/6/2011 10:14:16 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/6/2010, 4/11/2011, Batch: '1088334', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1088334						
AC		Rev1C	BaughB	4/5/2011 4:28:19 PM		
SC			mcginnist	IsBatched	3/29/2011 3:06:18 PM	ICOC_RADCALC v4.8.49
SC			BaughB	InPrep	4/5/2011 4:28:19 PM	RL-PRP-004 REVISION 1
SC			BaughB	Prep2C	4/5/2011 4:58:04 PM	RL-GPC-007 REVISION 1
SC			DawkinsO	InCnt1	4/5/2011 5:00:52 PM	RL-CI-006 REVISION 1
SC			DawkinsO	CalcC	4/6/2011 1:00:43 AM	RL-CI-006 REVISION 1
SC			mcginnist	Rev1C	4/6/2011 10:14:02 AM	RL-DR-001 Rev 2
AC			BaughB	4/5/2011 4:58:04 PM		
AC			DawkinsO	4/5/2011 5:00:52 PM		
AC			DawkinsO	4/6/2011 1:00:43 AM		
AC			mcginnist	4/6/2011 10:14:02		

AC: Accepting Entry; SC: Status Change

TestAmerica Laboratories, Inc.

4/5/2011 4:45:50 PM

Sample Preparation/Analysis

Balance Id:1117411003

127642, Washington Closure Hanford LLC , Bechtel Hanford, Inc.

BB Gross Beta Prp PRP003/GPC007
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 04/05/2011 JP0144

Sep1 DT/Tm Tech:

Batch: 1088335 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BaughB | Back 9

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MGAX3-1-AC J1C290570-1-SAMP 03/28/2011 13:15		0.2002g,in AmtRec: 1XJAR60MLG	#Containers: 1	1.5	200.2	50 ~~200.2~~ 4-5-11	26D Scr:	1803 Alpha:	4/5/11 OD Beta:	
2 MGAX3-1-AE-X J1C290570-1-DUP 03/28/2011 13:15		0.2003g,in AmtRec: 1XJAR60MLG	#Containers: 1		200.3		26C Scr:	Alpha:	Beta:	
3 MGA5L-1-AA-B J1C290000-335-BLK 03/29/2011 15:04 pd		0.2034g,in AmtRec:	#Containers: 1		1.3945g 1.3943g 0.2mg		26A Scr:	Alpha:	Beta:	
4 MGA5L-1-AC-C J1C290000-335-LCS 03/29/2011 15:04 pd		0.2023g,in AmtRec:	BESD1712 03/02/11,pd 10/01/01 r #Containers: 1		1.3971g 1.3972g 0mg		26B Scr:	Alpha:	Beta:	

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MGAX31AC-SAMP Constituent List:

BETA	RDL:1.50E+01	pCi/g	LCL:	UCL:	RPD:
MGA5L1AA-BLK:					
BETA	RDL:1.50E+01	pCi/g	LCL:	UCL:	RPD:
MGA5L1AC-LCS:					
Sr-90	RDL:	pCi/g	LCL:70	UCL:130	RPD:35

MGAX31AC-SAMP Calc Info:

4/5/2011 4:45:50 PM

Sample Preparation/Analysis

BB Gross Beta Prp PRP003/GPC007
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Balance Id:1117411003

Pipet #: _____

AnalyDueDate: 04/05/2011

Sep1 DT/Tm Tech:

Batch: 1088335 pCi/g

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BaughB

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MGA5L1AA-BLK:

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MGA5L1AC-LCS:

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

4/6/2011 10:10:01 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/6/2010, 4/11/2011, Batch: '1088335', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1088335						
AC		Rev1C	BaughB	4/5/2011 4:35:43 PM		
SC			mcginnist	IsBatched	3/29/2011 3:06:24 PM	ICOC_RADCALC v4.8.49
SC			BaughB	InPrep	4/5/2011 4:35:43 PM	RL-PRP-004 REVISION 1
SC			BaughB	Prep2C	4/5/2011 4:58:20 PM	RL-GPC-007 REVISION 1
SC			DawkinsO	InCnt1	4/5/2011 5:01:05 PM	RL-CI-006 REVISION 1
SC			DawkinsO	CalcC	4/6/2011 1:01:10 AM	RL-CI-006 REVISION 1
SC			mcginnist	Rev1C	4/6/2011 10:09:47 AM	RL-DR-001 Rev 2
AC			BaughB	4/5/2011 4:58:20 PM		
AC			DawkinsO	4/5/2011 5:01:05 PM		
AC			DawkinsO	4/6/2011 1:01:10 AM		
AC			mcginnist	4/6/2011 10:09:47		

AC: Accepting Entry; SC: Status Change