0096338

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

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 4/12/11
INITIAL/DATE

COMMENTS:

SDG JP0142 SAF RC-075

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 600-30 Area 1 Verification

RECEIVED
APR 18 2011
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
APR 2011
amended

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 36 *Pages*

Report No.: 46117

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.
JP0142	RC-075	J1FK37	J1C280485-1	MF9N91AA	9MF9N910	1089139
		J1FK38	J1C280485-2	MF9PD1AA	9MF9PD10	1089139
		J1FK39	J1C280485-3	MF9PE1AA	9MF9PE10	1089139
		J1FK40	J1C280485-4	MF9PG1AA	9MF9PG10	1089139
		J1FK41	J1C280485-5	MF9PH1AA	9MF9PH10	1089139
		J1FK42	J1C280485-6	MF9PM1AA	9MF9PM10	1089139
		J1FK43	J1C280485-7	MF9PQ1AA	9MF9PQ10	1089139
		J1FK44	J1C280485-8	MF9PT1AA	9MF9PT10	1089139
		J1FK45	J1C280485-9	MF9PV1AA	9MF9PV10	1089139
		J1FK46	J1C280485-10	MF9PW1AA	9MF9PW10	1089139
	RC-075	J1FK47	J1C280485-11	MF9PX1AA	9MF9PX10	1089139
		J1FK48	J1C280485-12	MF9P11AA	9MF9P110	1089139
		J1FK49	J1C280485-13	MF9P21AA	9MF9P210	1089139

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

April 6, 2011

Attention: Joan Kessner

SAF Number	:	RC-182
Date SDG Closed	:	March 30, 2011
Number of Samples	:	Thirteen (13)
Sample Type	:	Soil
SDG Number	:	J01039
Data Deliverable	:	15/15 Summary

CASE NARRATIVE

I. Introduction

On March 30, 2011, thirteen soil samples were received at TestAmerica for chemistry analysis. Upon receipt, the samples were assigned the following laboratory ID number to correspond with the Washington Closure Hanford (WCH) specific ID:

WCH ID#	TARL ID#	MATRIX	DATE OF RECEIPT
J1FKH7	MGD54	SOIL	3/30/11
J1FKH8	MGD55	SOIL	3/30/11
J1FKH9	MGD56	SOIL	3/30/11
J1FKJ0	MGD57	SOIL	3/30/11
J1FKJ1	MGD58	SOIL	3/30/11
J1FKJ2	MGD59	SOIL	3/30/11
J1FKJ3	MGD6A	SOIL	3/30/11
J1FKJ4	MGD6C	SOIL	3/30/11
J1FKJ5	MGD6D	SOIL	3/30/11
J1H0J5	MGEF8	SOIL	3/30/11
J1H0J6	MGEGE	SOIL	3/30/11
J1H0J7	MGEGF	SOIL	3/30/11
J1H0J8	MGEGG	SOIL	3/30/11

II. Sample Receipt

The samples were 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:

Chemical Analysis
Hexavalent Chromium by EPA method 7196A

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

Chemical Analysis
Hexavalent Chromium by EPA method 7196A:
There were two batches of the LCS, batch blank, samples, sample duplicate. The LCS, batch blank, samples, sample duplicate (J1FKH7, J1H0J5) and the sample matrix spike (J1FKH7, J1H0J5) 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:

Whitney Altare
for 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

TestAmerica TARL

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

Date: 06-Apr-11

Report No. : 46117

SDG No: JP0142

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1089139	7196_CR6								
	J1FK37								
	MF9N91AA	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01	1.55E-01	
	MF9N91AE	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	3.50E-01	0.7
	J1FK38								
	MF9PD1AA	HEXCHROME	1.52E-01 +- 0.0E+00	U	mg/kg	N/A	1.52E-01	1.55E-01	
	J1FK39								
	MF9PE1AA	HEXCHROME	2.80E-01 +- 0.0E+00		mg/kg	N/A	1.53E-01	1.55E-01	
	J1FK40								
	MF9PG1AA	HEXCHROME	1.49E-01 +- 0.0E+00	U	mg/kg	N/A	1.49E-01	1.55E-01	
	J1FK41								
	MF9PH1AA	HEXCHROME	1.82E-01 +- 0.0E+00		mg/kg	N/A	1.51E-01	1.55E-01	
	J1FK42								
	MF9PM1AA	HEXCHROME	1.48E-01 +- 0.0E+00	U	mg/kg	N/A	1.48E-01	1.55E-01	
	J1FK43								
	MF9PQ1AA	HEXCHROME	1.52E-01 +- 0.0E+00	U	mg/kg	N/A	1.52E-01	1.55E-01	
	J1FK44								
	MF9PT1AA	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01	1.55E-01	
	J1FK45								
	MF9PV1AA	HEXCHROME	1.50E-01 +- 0.0E+00	U	mg/kg	N/A	1.50E-01	1.55E-01	
	J1FK46								
	MF9PW1AA	HEXCHROME	1.97E-01 +- 0.0E+00		mg/kg	N/A	1.48E-01	1.55E-01	
	J1FK47								
	MF9PX1AA	HEXCHROME	3.63E-01 +- 0.0E+00		mg/kg	N/A	1.46E-01	1.55E-01	
	J1FK48								
	MF9P11AA	HEXCHROME	1.45E-01 +- 0.0E+00	U	mg/kg	N/A	1.45E-01	1.55E-01	
	J1FK49								
	MF9P21AA	HEXCHROME	1.49E-01 +- 0.0E+00	U	mg/kg	N/A	1.49E-01	1.55E-01	

No. of Results:- 14

TestAmerica

rptSTLRchSaSummary2 V5.2.12 A2002

RPD - Relative Percent Difference.

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.

QC Results Summary

Date: 06-Apr-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 46117

SDG No.: JP0142

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
7196_CR6								
1089139 MATRIX SPIKE, J1FK37								
MF9N91AC	HEXCHROME	4.67E+00 +- 0.0E+00		mg/kg	N/A	45%	-0.5	1.52E-01
1089139 LCS,								
MGCJ11AC	HEXCHROME	1.88E+01 +- 0.0E+00		mg/kg	N/A	94%	-0.1	1.55E-01
1089139 BLANK QC,								
MGCJ11AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 3

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.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	**TestAmerica**	**SDG:**	JP0142	**Collection Date:**	3/25/2011 12:10:00 PM
Lot-Sample No.:	**J1C280485-1**	**Report No. :**	46117	**Received Date:**	3/28/2011 12:40:00 PM
Client Sample ID:	**J1FK37**	**COC No. :**	RC-075-230	**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: 1089139	7196_CR6			**Work Order:** MF9N91AA			**Report DB ID:** 9MF9N910					
HEXCHROME	***1.53E-01***	U		0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	3/28/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 **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: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0142	Collection Date:	3/25/2011 12:15:00 PM
Lot-Sample No.:	J1C280485-2	Report No. :	46117	Received Date:	3/28/2011 12:40:00 PM
Client Sample ID:	J1FK38	COC No. :	RC-075-230	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: 1089139	7196_CR6			Work Order: MF9PD1AA			Report DB ID: 9MF9PD10					
HEXCHROME	***1.52E-01***	U		0.0E+00	1.52E-01	mg/kg	N/A	*(1.)*	3/28/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 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: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0142	Collection Date:	3/25/2011 1:05:00 PM
Lot-Sample No.:	J1C280485-3	Report No. :	46117	Received Date:	3/28/2011 12:40:00 PM
Client Sample ID:	J1FK39	COC No. :	RC-075-230	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: 1089139	7196_CR6			Work Order: MF9PE1AA			Report DB ID: 9MF9PE10					
HEXCHROME	***2.80E-01***			0.0E+00	1.53E-01	mg/kg	N/A	*(1.8)*	3/28/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0142	**Collection Date:**	3/25/2011 12:20:00 PM
Lot-Sample No.:	J1C280485-4	**Report No. :**	46117	**Received Date:**	3/28/2011 12:40:00 PM
Client Sample ID:	J1FK40	**COC No. :**	RC-075-230	**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: 1089139	7196_CR6			**Work Order:** MF9PG1AA			**Report DB ID:** 9MF9PG10					
HEXCHROME	***1.49E-01***	U		0.0E+00	1.49E-01	mg/kg	N/A	*1.*	3/28/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 **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: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0142	Collection Date:	3/25/2011 12:25:00 PM
Lot-Sample No.:	J1C280485-5	Report No. :	46117	Received Date:	3/28/2011 12:40:00 PM
Client Sample ID:	J1FK41	COC No. :	RC-075-230	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: 1089139	7196_CR6			Work Order: MF9PH1AA			Report DB ID: 9MF9PH10					
HEXCHROME	***1.82E-01***			0.0E+00	1.51E-01	mg/kg	N/A	*(1.2)*	3/28/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 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: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0142	Collection Date:	3/25/2011 12:40:00 PM
Lot-Sample No.:	J1C280485-6	Report No. :	46117	Received Date:	3/28/2011 12:40:00 PM
Client Sample ID:	J1FK42	COC No. :	RC-075-230	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: 1089139	7196_CR6			Work Order:	MF9PM1AA		Report DB ID:	9MF9PM10				
HEXCHROME	***1.48E-01***	U		0.0E+00	1.48E-01	mg/kg	N/A	*1.*	3/28/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 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: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0142	Collection Date:	3/25/2011 12:45:00 PM
Lot-Sample No.:	J1C280485-7	Report No. :	46117	Received Date:	3/28/2011 12:40:00 PM
Client Sample ID:	J1FK43	COC No. :	RC-075-230	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: 1089139	7196_CR6			Work Order:	MF9PQ1AA		Report DB ID:	9MF9PQ10				
HEXCHROME	***1.52E-01***	U		0.0E+00	1.52E-01	mg/kg	N/A	*(1.)*	3/28/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 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: 06-Apr-11

Lab Name:	**TestAmerica**	**SDG:**	JP0142	**Collection Date:**	3/25/2011 12:50:00 PM
Lot-Sample No.:	**J1C280485-8**	**Report No. :**	46117	**Received Date:**	3/28/2011 12:40:00 PM
Client Sample ID:	**J1FK44**	**COC No. :**	RC-075-230	**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: 1089139	7196_CR6			**Work Order:** MF9PT1AA			**Report DB ID:** 9MF9PT10					
HEXCHROME	***1.53E-01***	U		0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	3/28/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 **Comments:**

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: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0142	Collection Date:	3/25/2011 1:25:00 PM
Lot-Sample No.:	J1C280485-9	Report No. :	46117	Received Date:	3/28/2011 12:40:00 PM
Client Sample ID:	J1FK45	COC No. :	RC-075-230	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: 1089139	7196_CR6			Work Order: MF9PV1AA			Report DB ID: 9MF9PV10					
HEXCHROME	***1.50E-01***	U		0.0E+00	1.50E-01	mg/kg	N/A	*1.*	3/28/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 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: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0142	Collection Date:	3/25/2011 1:20:00 PM
Lot-Sample No.:	J1C280485-10	Report No. :	46117	Received Date:	3/28/2011 12:40:00 PM
Client Sample ID:	J1FK46	COC No. :	RC-075-230	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: 1089139	7196_CR6			Work Order:	MF9PW1AA		Report DB ID:	9MF9PW10				
HEXCHROME	***1.97E-01***			0.0E+00	1.48E-01	mg/kg	N/A	*(1.3)*	3/28/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 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: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0142	Collection Date:	3/25/2011 1:15:00 PM
Lot-Sample No.:	J1C280485-11	Report No. :	46117	Received Date:	3/28/2011 12:40:00 PM
Client Sample ID:	J1FK47	COC No. :	RC-075-230	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: 1089139	7196_CR6			Work Order:	MF9PX1AA		Report DB ID:	9MF9PX10				
HEXCHROME	***3.63E-01***			0.0E+00	1.46E-01	mg/kg	N/A	*(2.5)*	3/28/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica Laboratories, Inc.

18

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: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0142	**Collection Date:**	3/25/2011 1:10:00 PM
Lot-Sample No.:	J1C280485-12	**Report No. :**	46117	**Received Date:**	3/28/2011 12:40:00 PM
Client Sample ID:	J1FK48	**COC No. :**	RC-075-230	**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: 1089139	7196_CR6			**Work Order:** MF9P11AA			**Report DB ID:** 9MF9P110					
HEXCHROME	***1.45E-01***	U		0.0E+00	1.45E-01	mg/kg	N/A	*(1.)*	3/28/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 **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: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0142	Collection Date:	3/25/2011 12:10:00 PM
Lot-Sample No.:	J1C280485-13	Report No. :	46117	Received Date:	3/28/2011 12:40:00 PM
Client Sample ID:	J1FK49	COC No. :	RC-075-230	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: 1089139	7196_CR6			Work Order:	MF9P21AA		Report DB ID:	9MF9P210				
HEXCHROME	***1.49E-01***	U		0.0E+00	1.49E-01	mg/kg	N/A	*1.*	3/28/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 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: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0142	Collection Date:	3/25/2011 12:10:00 PM
Lot-Sample No.:	J1C280485-13	Report No. :	46117	Received Date:	3/28/2011 12:40:00 PM
Client Sample ID:	J1FK49	COC No. :	RC-075-230	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

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21

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 II

Date: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0142	**Collection Date:**	3/25/2011 12:10:00 PM
Lot-Sample No.:	J1C280485-1	**Report No. :**	46117	**Received Date:**	3/28/2011 12:40:00 PM
Client Sample ID:	J1FK37	**COC No. :**	RC-075-230	**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: 1089139	7196_CR6			**Work Order:** MF9N91AE		**Report DB ID:** MF9N91ER			**Orig Sa DB ID:** 9MF9N910			
HEXCHROME	1.54E-01	U		0.0E+00	1.54E-01	mg/kg	N/A	(1.)	3/28/11		2.5	
	1.53E-01	U	**RPD** 0.7			3.50E-01		N/A			g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchDupV5.2
.12 A2002

RPD - Relative Percent Difference.
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

BLANK RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0142

Report No. : 46117

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: 1089139	7196_CR6			Work Order:	MGCJ11AA		Report DB ID:	MGCJ11AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/28/11		2.5	
						1.55E-01		N/A			g	

No. of Results: 1 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: 06-Apr-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0142

Report No. : 46117

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: 1089139	7196_CR6			Work Order: MGCJ11AC			Report DB ID: MGCJ11AS						
HEXCHROME	1.88E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		94%	3/28/11	2.5	
							Rec Limits:	80	120	-0.1		g	

No. of Results: 1 Comments:

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

rptSTLRchLcs
V5.2.12 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica SDG: JP0142

Lot-Sample No.: J1C280485-1, J1FK37 Report No. : 46117 Matrix: SOIL

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 1089139	Work Order: MF9N91AC			Report DB ID: MF9N91CW			Orig Sa DB ID: 9MF9N910					
HEXCHROME	4.67E+00			0.0E+00	1.52E-01	mg/kg	N/A	45.15%	1.03E+01	3/28/11	2.5	7196_CR6
	1.53E-01										g	

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.12 A2002

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 1089139
Lab Sample Numbers or SDG:JP0142
Method/Test/Parameter: Cr+6 in SOLID / RL-WC-004

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			✓
2. Correlation coefficient within QC limits?	✓			✓
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			✓
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			✓
B. Continuing Calibration				
1. CCV analyzed at required frequency and all parameters within QC limits?	✓			✓
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			✓
C. Sample Analysis				
1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?			✓	N/A
2. Were all sample holding times met?	✓			✓
D. QC Samples				
1. All results for the preparation blank below limits?	✓			✓
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?		✓		✓
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			✓
4. Analytical spikes within QC limits where applicable?	✓			✓
5. ICP only: One serial dilution performed per SDG?			✓	N/A
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	N/A
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	N/A

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26

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
E. Other	✓			
1. Are all nonconformances included and noted?				✓
2. Is the correct date and time of analysis shown?	✓			✓
3. Did the analyst sign and date the front page of the analytical run?	✓			✓
4. Correct methodology used?	✓			✓
5. Transcriptions checked?	✓			✓
6. Calculations checked at minimum frequency?	✓			✓
7. Units checked?	✓			✓

Comments on any "No sample. The MS recovered low at 45.2%. The insoluble MSD recovered within limits at 104.3%. PDMS recovered at 97.7%.

Suspect reducing capacity in the sample, but not enough to exhaust the more copious insoluble MSD.

Analyst: [signature] M.R Date: 3-31-11

Second-Level Review: [signature] Date: 4/1/11

TestAmerica Laboratories, Inc. 27

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-17927
NCM Initiated By: Hooshang Rahavi
Date Opened: 03/31/2011
Date Closed:

Classification: Anomaly
Status: PMREVIEW
Production Area: Classical Chemistry
Tests: 7196A
Lot #'s (Sample #'s): J1C280485 (1,10,11,12,13,2,3,4,5,6,7,8,9),
QC Batches: 1089139,

Nonconformance: QC data exceeded criteria
Subcategory: MS/MSD accuracy and/or precision out of control

Problem Description / Root Cause

Name	Date	Description
Hooshang Rahavi	03/31/2011	The MS recovered low at 45.2%. The insoluble MSD recovered within limits at 104.3%. PDMS recovered at 97.7%. Suspect reducing capacity in the sample, but not enough to exhaust the more copious insoluble MSD.

Corrective Action

Name	Date	Corrective Action
Hooshang Rahavi	03/31/2011	Report data

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position

Date Printed: 3/31/2011

TestAmerica Laboratories, Inc. 28

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-230	Page 1 of 2
Collector: J Knepfer	Company Contact: D Woolery — Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: 8L 8B — Data Turnaround: 21 Days
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 600-30 Area 1 Verification	SAF No.: RC-075	
Ice Chest No.: NA	Field Logbook No.: EL-1607-09 — COA: R600302000	Method of Shipment: HAND DELIVER	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
None

Special Handling and/or Storage
Cool 4C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Type of Container	G/P	G/P	G	aG	aG	aG	
No. of Container(s)	1	1	1	1	1	1	
Volume	60mL	60mL	120mL	125mL	120mL	125mL	
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	Semi-VOA - 8270A (TCL)	PCBs - 8082	Pesticides - 8081	

J1C280485

Sample No.	Matrix *	Sample Date	Sample Time									
J1FK37	SOIL	3/25/11	1210		✓			MF9NA				1
J1FK38	SOIL	3/25/11	1215		✓			MF9PD				2
J1FK39	SOIL	3/25/11	1305		✓			MF9PE				3
J1FK40	SOIL	3/25/11	1220		✓			MF9PG				4
J1FK41	SOIL	3/25/11	1225		✓			MF9PH				5

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: [signature]	3/25/11 1415	Received By/Stored In: [signature]	3/25/11 1415
Relinquished By/Removed From: [signature]	Date/Time 1215 3-28-11	Received By/Stored In: J.E. Bahl	Date/Time 1215 3-28-11
Relinquished By/Removed From: J.E. Bahl WCH	Date/Time 1240 3-28-11	Received By/Stored In: TALR Cameron Krana	Date/Time 1240 3-28-11
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

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

J1C280485
Due 4.04.11
SDG #
JP0142 WCH

REVIEWED BY [signature]
DATE 3-28-11

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

TestAmerica Laboratories, Inc.
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30
30

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-230	Page 2 of 3

Collector: J Kuepfer	Company Contact: D Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B	Data Turnaround: ~~21~~ 7 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 600-30 Area 1 Verification		SAF No.: RC-075
Ice Chest No.: NA	Field Logbook No.: EL-1607-09	COA: R600302000	Method of Shipment: HAND DELIVER
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS
None

Special Handling and/or Storage
Cool 4C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Type of Container	G/P	G/P	G	aG	aG	aG	
No. of Container(s)	1	1	1	1	1	1	
Volume	60mL	60mL	120mL	125mL	120mL	125mL	
SAMPLE ANALYSIS	See item (1) in Special Instructions. TED 3/24/11	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	Semi-VOA - 8270A (TCL) TED 3/24/11	PCBs - 8082	Pesticides - 8081	

J1C280485

Sample No.	Matrix *	Sample Date	Sample Time								
J1FK42	SOIL	3/25/11	1240		✓			MFPPL			6
J1FK43	SOIL	3/25/11	1245		✓			MFPPQ			7
J1FK44	SOIL	3/25/11	1250		✓			MFPPT			8
J1FK45	SOIL	3/25/11	1325		✓			MFPPV			9
J1FK46	SOIL	3/25/11	1320		✓			MFPPW			10

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	3/25/11 1415	D WOOLERY	3/25/11 1415
D WOOLERY	3-28-11 1215	J. E. Beck	3-28-11 1215
J. E. Beck WCH	3-28-11 1240	TALR Cameron Krama	3-28-11 1240

SPECIAL INSTRUCTIONS

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

WCH
J1C280485
DUE 4.04.11
SDG # JP0142

REVIEWED BY AJ
DATE 3-28-11

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

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

WCH-EE-011

TestAmerica Laboratories, Inc.
TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-230	Page 3 of 3
Collector: J Kuepfer	Company Contact: D Woolery; Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: 8L 8B
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 600-30 Area 1 Verification	SAF No.: RC-075	Data Turnaround: 21 Days
Ice Chest No.: NA	Field Logbook No.: EL-1607-09; COA: R600302000	Method of Shipment: HAND DELIVER	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
None

Special Handling and/or Storage
Cool 4C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C					
Type of Container	G/P	G/P	G	aG	aG	aG					
No. of Container(s)	1	1	1	1	1	1					
Volume	60mL	60mL	120mL	125mL	120mL	125mL					
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	Semi-VOA - 8270A (TCL)	PCBs - 8082	Pesticides - 8081					
Sample No. / Matrix * / Sample Date / Sample Time											
J1FK47 / SOIL / 3/25/11 / 1315		✓				MFPPX					11
J1FK48 / SOIL / 3/25/11 / 1310		✓				MFPP1					12
J1FK49 / SOIL / 3/25/11 / 1210		✓				MFPP2					D
~~J1FK50~~ / SOIL											

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From: Robert Wiseman	Date/Time: 3/25/11 1415	Received By/Stored In: DWOOLERY	Date/Time: 3/25/11 1415
Relinquished By/Removed From: DWOOLERY	Date/Time: 3-28-11 1215	Received By/Stored In: J.E. Bell	Date/Time: 3-28-11 1215
Relinquished By/Removed From: J.E. Bell WCH	Date/Time: 3-28-11 1240	Received By/Stored In: TALK Camera Krouse	Date/Time: 3-28-11 1240
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

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

REVIEWED BY
DATE 3-28-11

J1C280485
JDG1-
JP0142

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

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Sample Check-in List

Date/Time Received: 3.28.11 @1240 GM Screen Result (out) .4 (in) .5 Initials [✓]

Client: UCH SDG #: JP0142 NA [ ] SAF #: RC-075 NA [ ]

Work Order Number: J1C280485 Chain of Custody # RC-075-230

Shipping Container ID: Hand Delivery NA [✓] Air Bill # _____ NA [✓]

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

1. Custody Seals on shipping container intact? Yes [✓] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ] No Custody Seal [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 3.0 NA [ ] 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): 13 @ 1 liter
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓] PEL.
8. Samples have:
   - ✓ custody seals
   - ✓ appropriate sample labels
   - ___ tape
   - ___ hazard labels
9. Samples:
   - ✓ are in good condition (Soil)
   - ___ are broken
   - ___ are leaking
   - ___ have air bubbles (Only for samples requiring no head space)
10. Sample pH appropriate for analysis requested Yes [ ] No [ ] N/A [✓] (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 [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): NA [✓]

See other side for additional comments

Sample Custodian: [signature] Date: 3.28.11 @1240 TUCK

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager: [signature] Date 3/28/11

LS-023, Rev. 12, 10/10

TestAmerica Laboratories, Inc. 32

03/30/2011 9:08:49 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 04/04/2011

Batch: 1089139 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

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 MF9N9-1-AA J1C280485-1-SAMP 03/25/2011 12:10		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
2 MF9N9-1-AC-S J1C280485-1-MS 03/25/2011 12:10		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
3 MF9N9-1-AD-D J1C280485-1-MSD 03/25/2011 12:10		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
4 MF9N9-1-AE-X J1C280485-1-DUP 03/25/2011 12:10		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
5 MF9PD-1-AA J1C280485-2-SAMP 03/25/2011 12:15		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
6 MF9PE-1-AA J1C280485-3-SAMP 03/25/2011 13:05		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
7 MF9PG-1-AA J1C280485-4-SAMP 03/25/2011 12:20		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:

TestAmerica Richland Wa. Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7 ICOC v4.8.49

3/30/2011 9:08:50 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)

Balance Id:

Pipet #:

AnalyDueDate: 04/04/2011

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 1089139 SOIL mg/kg

PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

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:
8 MF9PH-1-AA J1C280485-5-SAMP 03/25/2011 12:25		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
9 MF9PM-1-AA J1C280485-6-SAMP 03/25/2011 12:40		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
10 MF9PQ-1-AA J1C280485-7-SAMP 03/25/2011 12:45		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
11 MF9PT-1-AA J1C280485-8-SAMP 03/25/2011 12:50		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
12 MF9PV-1-AA J1C280485-9-SAMP 03/25/2011 13:25		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
13 MF9PW-1-AA J1C280485-10-SAMP 03/25/2011 13:20		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
14 MF9PX-1-AA J1C280485-11-SAMP 03/25/2011 13:15		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:

TestAmerica Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2

pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 14

ICOC v4.8.49

3/30/2011 9:08:50 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 04/04/2011

Batch: 1089139 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

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:
15 MF9P1-1-AA J1C280485-12-SAMP 03/25/2011 13:10		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
16 MF9P2-1-AA J1C280485-13-SAMP 03/25/2011 12:10		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
17 MGCJ1-1-AA-B J1C300000-139-BLK 03/30/2011 08:48 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
18 MGCJ1-1-AC-C J1C300000-139-LCS 03/30/2011 08:48 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments:

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

MF9N91AA-SAMP Constituent List:
HEXCHROME RDL:0.1548 mg/kg LCL:80 UCL:120 RPD:20
MF9N91AC-MS Constituent List:

MF9N91AD-MSD:

MGCJ11AA-BLK:

3/30/2011 9:08:50 AM

Sample Preparation/Analysis

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

AnalyDueDate: 04/04/2011

Batch: 1089139 mg/kg
SEQ Batch, Test: None

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

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:

MGCJ11AC-LCS:

MF9N91AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF9N91AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF9N91AD-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MGCJ11AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MGCJ11AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-13998-1

SDG Number: JP0142

Job Description: SAF# RC-075

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

Attention: Joan H Kessner

RECEIVED APR 2011

Approved for release.
Kae E Yoder
Project Manager II
4/9/2011 2:07 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
04/09/2011

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 6
Method / Analyst Summary 7
Sample Summary 8
Sample Results 9
Sample Datasheets 10
QC Results 120
Qc Association Summary 121
Qc Reports 129
Client Chain of Custody 148
Sample Receipt Checklist 151

CASE NARRATIVE

Client: Washington Closure Hanford

Project: [redacted]

Report Number: 280-13998-1

SDG #: JP0142
SAF#: RC-075

Date SDG Closed: March 29, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1FK37	280-13998-1	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK38	280-13998-2	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK39	280-13998-3	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK40	280-13998-4	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK41	280-13998-5	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK42	280-13998-6	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK43	280-13998-7	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK44	280-13998-8	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK45	280-13998-9	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK46	280-13998-10	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK47	280-13998-11	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK48	280-13998-12	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK49	280-13998-13	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK50	280-13998-14	6010/7471/WTPH-D+/8270A	6010B/7471A/NWTPH-Dx/8270C

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

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

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

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

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

RECEIPT

The samples were received on 3/29/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.8 C, 2.7 C and 3.7 C.

GC/MS SEMIVOLATILES - SW846 8270C

Low levels of Bis(2-ethylhexyl) phthalate, a common laboratory contaminant, are present in the method blank associated with batch 280-59843. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

The MS/MSD performed on sample J1FK38 exceeded the RPD limit for 2-Chlorophenol, 2-Methylphenol and N-Nitrosodi-n-propylamine. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8081A - PESTICIDEs
The MSD aliquot of the MS/MSD performed on sample J1FK37 exhibited spike compound recoveries outside the control limits, and the associated sample results have been flagged "N". In addition, RPD limits were exceeded. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

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

GC SEMIVOLATILES - NWTPH-Dx - DRO
The method required MS/MSD was not performed for batch 280-60452, due to analyst oversight. A duplicate LCS (LCSD) was analyzed to provide some evidence of batch precision. The only sample associated with this batch is an equipment blank sample, J1FK50

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-59829 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

Low levels of Silver are present in the method blank associated with batch 280-59829. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

It can be noted that the sample amount was greater than four times the spike amount for Aluminum, Iron and Manganese in the Matrix Spike performed on sample J1FK37; therefore, control limits are not applicable.

Silicon was recovered outside the control limits in the SW846 6010B Matrix Spike performed on sample J1FK37, and the associated sample result has been flagged "N". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	U	Analyzed for but not detected.
	J	Indicates an Estimated Value for TICs
	*	MS/MSD RPD exceeded the control limit
	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.
	*	MS/MSD RPD exceeded the control limit
	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.
	C	The analyte was detected in both the sample and the assoicated QC blank, and the sample concentration was </= 5X the blank concentration.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Organochlorine Pesticides (GC)	TAL DEN	SW846 8081A	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Method	Analyst	Analyst ID
SW846 8270C	Hoffman, Michael G	MGH
SW846 8081A	Wells, David	DW
SW846 8082	Pavlakovich, Adam M	AMP
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Harre, John K	JKH
SW846 7471A	Stoltz, Katie	KS
ASTM D-2216	Berry III, Paul B	PBB

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-13998-1	J1FK37	Solid	03/25/2011 1210	03/29/2011 0830
280-13998-2	J1FK38	Solid	03/25/2011 1215	03/29/2011 0830
280-13998-3	J1FK39	Solid	03/25/2011 1305	03/29/2011 0830
280-13998-4	J1FK40	Solid	03/25/2011 1220	03/29/2011 0830
280-13998-5	J1FK41	Solid	03/25/2011 1225	03/29/2011 0830
280-13998-6	J1FK42	Solid	03/25/2011 1240	03/29/2011 0830
280-13998-7	J1FK43	Solid	03/25/2011 1245	03/29/2011 0830
280-13998-8	J1FK44	Solid	03/25/2011 1250	03/29/2011 0830
280-13998-9	J1FK45	Solid	03/25/2011 1325	03/29/2011 0830
280-13998-10	J1FK46	Solid	03/25/2011 1320	03/29/2011 0830
280-13998-11	J1FK47	Solid	03/25/2011 1315	03/29/2011 0830
280-13998-12	J1FK48	Solid	03/25/2011 1310	03/29/2011 0830
280-13998-13	J1FK49	Solid	03/25/2011 1210	03/29/2011 0830
280-13998-14EB	J1FK50	Solid	03/25/2011 1205	03/29/2011 0830

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK37**

Lab Sample ID: 280-13998-1
Client Matrix: Solid

% Moisture: 5.0

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2771.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/30/2011 1808			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			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		100	J B	48	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		45	U	45	350
Carbazole		38	U	38	350
4-Chloroaniline		86	U	86	350
4-Chloro-3-methylphenol		69	U	69	350
2-Chloronaphthalene		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	870
2,4-Dinitrotoluene		69	U	69	350
2,6-Dinitrotoluene		29	U	29	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		38	U	38	350
Fluorene		19	U	19	350
Hexachlorobenzene		30	U	30	350
Hexachlorobutadiene		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: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK37**

Lab Sample ID: 280-13998-1
Client Matrix: Solid

% Moisture: 5.0

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2771.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/30/2011 1808			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	350
3 & 4 Methylphenol		35	U	35	350
Naphthalene		33	U	33	350
2-Nitroaniline		52	U	52	350
3-Nitroaniline		77	U	77	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		33	U	33	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	690
Phenanthrene		18	U	18	350
Phenol		19	U	19	350
Pyrene		13	U	13	350
1,2,4-Trichlorobenzene		29	U	29	350
2,4,5-Trichlorophenol		10	U	10	350
2,4,6-Trichlorophenol		10	U	10	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	81		50 - 120
2-Fluorophenol	83		53 - 120
Nitrobenzene-d5	74		50 - 120
Phenol-d5	83		52 - 120
Terphenyl-d14	104		55 - 120
2,4,6-Tribromophenol	91		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK37**

Lab Sample ID: 280-13998-1
Client Matrix: Solid

% Moisture: 5.0

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2771.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/30/2011 1808			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.31	170	J N
2216-30-0	Heptane, 2,5-dimethyl-	2.42	210	J N
	Unknown	2.49	3700	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK38**

Lab Sample ID: 280-13998-2
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 03/25/2011 1215
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2772.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	03/30/2011 1827			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		19	U	19	320
Benzo[a]pyrene		19	U	19	320
Benzo[b]fluoranthene		25	U	25	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		86	J B	45	320
4-Bromophenyl phenyl ether		18	U	18	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		64	U	64	320
2-Chloronaphthalene		9.7	U	9.7	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		18	U	18	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		87	U	87	640
2,4-Dichlorophenol		9.7	U	9.7	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		64	U	64	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	640
2,4-Dinitrophenol		320	U	320	800
2,4-Dinitrotoluene		64	U	64	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		17	U	17	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.7	U	9.7	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		17	U	17	320
2-Methylnaphthalene		18	U	18	320

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK38**

Lab Sample ID: 280-13998-2
Client Matrix: Solid

% Moisture: 4.4

Date Sampled: 03/25/2011 1215
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2772.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	03/30/2011 1827			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		70	U	70	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.7	U	9.7	320
4-Nitrophenol		94	U	94	640
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	640
Phenanthrene		17	U	17	320
Phenol		17	U	17	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.7	U	9.7	320
2,4,6-Trichlorophenol		9.7	U	9.7	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	72		50 - 120
2-Fluorophenol	75		53 - 120
Nitrobenzene-d5	67		50 - 120
Phenol-d5	74		52 - 120
Terphenyl-d14	101		55 - 120
2,4,6-Tribromophenol	82		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK38**

Lab Sample ID: 280-13998-2
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 03/25/2011 1215
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2772.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	03/30/2011 1827			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.09	1800	J N
	Unknown	2.31	170	J N
2216-30-0	Heptane, 2,5-dimethyl-	2.42	170	J N
	Unknown	2.49	3300	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK39**

Lab Sample ID: 280-13998-3
Client Matrix: Solid

% Moisture: 8.0

Date Sampled: 03/25/2011 1305
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2773.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	03/30/2011 1846			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		18	U	18	340
Anthracene		18	U	18	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		17	U	17	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		140	J B	47	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		85	U	85	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		93	U	93	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	850
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK39**

Lab Sample ID: 280-13998-3
Client Matrix: Solid
% Moisture: 8.0

Date Sampled: 03/25/2011 1305
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2773.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	03/30/2011 1846			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	76		50 - 120
2-Fluorophenol	80		53 - 120
Nitrobenzene-d5	71		50 - 120
Phenol-d5	79		52 - 120
Terphenyl-d14	103		55 - 120
2,4,6-Tribromophenol	86		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK39**

Lab Sample ID: 280-13998-3
Client Matrix: Solid

% Moisture: 8.0

Date Sampled: 03/25/2011 1305
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2773.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	03/30/2011 1846			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.09	5800	J N
	Unknown	2.27	170	J N
	Unknown	2.32	230	J N
926-82-9	Heptane, 3,5-dimethyl-	2.42	220	J N
	Unknown	2.49	3900	J N
	Unknown	12.29	160	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK40**

Lab Sample ID: 280-13998-4
Client Matrix: Solid

% Moisture: 4.3

Date Sampled: 03/25/2011 1220
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2774.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	03/30/2011 1905			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		16	U	16	320
Anthracene		16	U	16	320
Benzo[a]anthracene		19	U	19	320
Benzo[a]pyrene		19	U	19	320
Benzo[b]fluoranthene		25	U	25	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		84	J B	45	320
4-Bromophenyl phenyl ether		18	U	18	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		79	U	79	320
4-Chloro-3-methylphenol		64	U	64	320
2-Chloronaphthalene		9.7	U	9.7	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		18	U	18	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		87	U	87	640
2,4-Dichlorophenol		9.7	U	9.7	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		64	U	64	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	640
2,4-Dinitrophenol		320	U	320	800
2,4-Dinitrotoluene		64	U	64	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		17	U	17	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.7	U	9.7	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		16	U	16	320
2-Methylnaphthalene		18	U	18	320

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK40**

Lab Sample ID: 280-13998-4
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 03/25/2011 1220
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2774.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	03/30/2011 1905			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		70	U	70	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.7	U	9.7	320
4-Nitrophenol		94	U	94	640
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	640
Phenanthrene		16	U	16	320
Phenol		17	U	17	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.7	U	9.7	320
2,4,6-Trichlorophenol		9.7	U	9.7	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	77		50 - 120
2-Fluorophenol	78		53 - 120
Nitrobenzene-d5	69		50 - 120
Phenol-d5	78		52 - 120
Terphenyl-d14	104		55 - 120
2,4,6-Tribromophenol	83		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK40**

Lab Sample ID: 280-13998-4
Client Matrix: Solid

% Moisture: 4.3

Date Sampled: 03/25/2011 1220
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2774.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	03/30/2011 1905			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.10	660	J N
	Unknown	2.27	130	J N
	Unknown	2.32	170	J N
	Unknown	2.42	190	J N
	Unknown	2.49	2900	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK41**

Lab Sample ID: 280-13998-5
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/25/2011 1225
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2775.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	03/30/2011 1923			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		27	U	27	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		88	J B	47	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		44	U	44	330
Carbazole		36	U	36	330
4-Chloroaniline		83	U	83	330
4-Chloro-3-methylphenol		67	U	67	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		91	U	91	670
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		67	U	67	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	670
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		67	U	67	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		15	U	15	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		51	U	51	330
Hexachloroethane		22	U	22	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK41**

Lab Sample ID: 280-13998-5
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/25/2011 1225
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2775.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	03/30/2011 1923			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	80		50 - 120
2-Fluorophenol	82		53 - 120
Nitrobenzene-d5	74		50 - 120
Phenol-d5	83		52 - 120
Terphenyl-d14	106		55 - 120
2,4,6-Tribromophenol	86		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK41**

Lab Sample ID: 280-13998-5
Client Matrix: Solid

% Moisture: 5.3

Date Sampled: 03/25/2011 1225
Date Received: 03/29/2011 0830

8270C Semivolatile.Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2775.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	03/30/2011 1923			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.09	1200	J N
	Unknown	2.16	140	J N
	Unknown	2.27	150	J N
	Unknown	2.32	210	J N
	Unknown	2.42	210	J N
	Unknown	2.49	3400	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK42**

Lab Sample ID: 280-13998-6
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 03/25/2011 1240
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2776.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	03/30/2011 1942			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		20	U	20	340
Benzo[a]pyrene		20	U	20	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		88	J B	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		84	U	84	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		92	U	92	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK42**

Lab Sample ID: 280-13998-6
Client Matrix: Solid

% Moisture: 5.4

Date Sampled: 03/25/2011 1240
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2776.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	03/30/2011 1942			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	74		50 - 120
2-Fluorophenol	76		53 - 120
Nitrobenzene-d5	67		50 - 120
Phenol-d5	76		52 - 120
Terphenyl-d14	105		55 - 120
2,4,6-Tribromophenol	84		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK42**

Lab Sample ID: 280-13998-6
Client Matrix: Solid

% Moisture: 5.4

Date Sampled: 03/25/2011 1240
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2776.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	03/30/2011 1942			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.31	170	J N
	Unknown	2.42	210	J N
	Unknown	2.49	3500	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK43**

Lab Sample ID: 280-13998-7
Client Matrix: Solid

% Moisture: 5.6

Date Sampled: 03/25/2011 1245
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2777.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	03/30/2011 2001			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		89	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK43**

Lab Sample ID: 280-13998-7
Client Matrix: Solid

% Moisture: 5.6

Date Sampled: 03/25/2011 1245
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2777.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	03/30/2011 2001			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	71		50 - 120
2-Fluorophenol	76		53 - 120
Nitrobenzene-d5	66		50 - 120
Phenol-d5	76		52 - 120
Terphenyl-d14	104		55 - 120
2,4,6-Tribromophenol	85		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK43**

Lab Sample ID: 280-13998-7
Client Matrix: Solid

% Moisture: 5.6

Date Sampled: 03/25/2011 1245
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2777.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	03/30/2011 2001			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.32	150	J N
2216-33-3	Octane, 3-methyl-	2.42	190	J N
	Unknown	2.49	3500	J N
	Unknown	12.24	140	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK44**

Lab Sample ID: 280-13998-8
Client Matrix: Solid

% Moisture: 4.0

Date Sampled: 03/25/2011 1250
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2778.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	03/30/2011 2020			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		91	J B	47	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		84	U	84	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		93	U	93	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	850
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		17	U	17	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK44**

Lab Sample ID: 280-13998-8
Client Matrix: Solid

% Moisture: 4.0

Date Sampled: 03/25/2011 1250
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2778.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	03/30/2011 2020			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		75	U	75	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	680
Phenanthrene		17	U	17	340
Phenol		19	U	19	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	69		50 - 120
2-Fluorophenol	72		53 - 120
Nitrobenzene-d5	63		50 - 120
Phenol-d5	72		52 - 120
Terphenyl-d14	107		55 - 120
2,4,6-Tribromophenol	79		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK44**

Lab Sample ID: 280-13998-8
Client Matrix: Solid
% Moisture: 4.0

Date Sampled: 03/25/2011 1250
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2778.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	03/30/2011 2020			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.11	170	J N
	Unknown	2.42	170	J N
	Unknown	2.49	3100	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK45**

Lab Sample ID: 280-13998-9
Client Matrix: Solid

% Moisture: 5.5

Date Sampled: 03/25/2011 1325
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2779.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	03/30/2011 2039			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		96	J B	47	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		83	U	83	330
4-Chloro-3-methylphenol		67	U	67	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		91	U	91	670
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		67	U	67	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	670
2,4-Dinitrophenol		340	U	340	830
2,4-Dinitrotoluene		67	U	67	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		15	U	15	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		51	U	51	330
Hexachloroethane		22	U	22	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK45**

Lab Sample ID: 280-13998-9
Client Matrix: Solid
% Moisture: 5.5

Date Sampled: 03/25/2011 1325
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2779.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	03/30/2011 2039			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	81		50 - 120
2-Fluorophenol	83		53 - 120
Nitrobenzene-d5	73		50 - 120
Phenol-d5	84		52 - 120
Terphenyl-d14	106		55 - 120
2,4,6-Tribromophenol	91		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK45**

Lab Sample ID: 280-13998-9
Client Matrix: Solid

% Moisture: 5.5

Date Sampled: 03/25/2011 1325
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2779.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	03/30/2011 2039			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.09	580	J N
	Unknown	2.31	180	J N
	Unknown	2.42	180	J N
	Unknown	2.49	3900	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK46**

Lab Sample ID: 280-13998-10
Client Matrix: Solid

% Moisture: 4.2

Date Sampled: 03/25/2011 1320
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2780.D
Dilution:	1.0			Initial Weight/Volume:	32.4 g
Analysis Date:	03/30/2011 2057			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		16	U	16	320
Anthracene		16	U	16	320
Benzo[a]anthracene		19	U	19	320
Benzo[a]pyrene		19	U	19	320
Benzo[b]fluoranthene		25	U	25	320
Benzo[ghi]perylene		15	U	15	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		80	J B	44	320
4-Bromophenyl phenyl ether		18	U	18	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		79	U	79	320
4-Chloro-3-methylphenol		64	U	64	320
2-Chloronaphthalene		9.7	U	9.7	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		18	U	18	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		87	U	87	640
2,4-Dichlorophenol		9.7	U	9.7	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		64	U	64	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	640
2,4-Dinitrophenol		320	U	320	800
2,4-Dinitrotoluene		64	U	64	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		17	U	17	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.7	U	9.7	320
Hexachlorocyclopentadiene		48	U	48	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		16	U	16	320
2-Methylnaphthalene		18	U	18	320

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK46**

Lab Sample ID: 280-13998-10
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 03/25/2011 1320
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2780.D
Dilution:	1.0			Initial Weight/Volume:	32.4 g
Analysis Date:	03/30/2011 2057			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		48	U	48	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		70	U	70	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.7	U	9.7	320
4-Nitrophenol		94	U	94	640
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	640
Phenanthrene		16	U	16	320
Phenol		17	U	17	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.7	U	9.7	320
2,4,6-Trichlorophenol		9.7	U	9.7	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	80		50 - 120
2-Fluorophenol	83		53 - 120
Nitrobenzene-d5	75		50 - 120
Phenol-d5	83		52 - 120
Terphenyl-d14	101		55 - 120
2,4,6-Tribromophenol	82		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK46**

Lab Sample ID: 280-13998-10
Client Matrix: Solid

% Moisture: 4.2

Date Sampled: 03/25/2011 1320
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2780.D
Dilution:	1.0			Initial Weight/Volume:	32.4 g
Analysis Date:	03/30/2011 2057			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.27	130	J N
	Unknown	2.31	190	J N
2216-30-0	Heptane, 2,5-dimethyl-	2.42	200	J N
	Unknown	2.49	3400	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK47**

Lab Sample ID: 280-13998-11
Client Matrix: Solid

% Moisture: 4.0

Date Sampled: 03/25/2011 1315
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2781.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	03/30/2011 2116			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		16	U	16	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		83	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		81	U	81	330
4-Chloro-3-methylphenol		65	U	65	330
2-Chloronaphthalene		9.9	U	9.9	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		13	U	13	330
3,3'-Dichlorobenzidine		89	U	89	650
2,4-Dichlorophenol		9.9	U	9.9	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		65	U	65	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	650
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		65	U	65	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		9.9	U	9.9	330
Hexachlorocyclopentadiene		49	U	49	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK47**

Lab Sample ID: 280-13998-11
Client Matrix: Solid

% Moisture: 4.0

Date Sampled: 03/25/2011 1315
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2781.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	03/30/2011 2116			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	73		50 - 120
2-Fluorophenol	75		53 - 120
Nitrobenzene-d5	66		50 - 120
Phenol-d5	76		52 - 120
Terphenyl-d14	104		55 - 120
2,4,6-Tribromophenol	81		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK47**

Lab Sample ID: 280-13998-11
Client Matrix: Solid

% Moisture: 4.0

Date Sampled: 03/25/2011 1315
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2781.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	03/30/2011 2116			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.32	160	J N
	Unknown	2.42	160	J N
	Unknown	2.49	2900	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK48**

Lab Sample ID: 280-13998-12
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 03/25/2011 1310
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2782.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 2135			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		21	U	21	350
Benzo[a]pyrene		21	U	21	350
Benzo[b]fluoranthene		28	U	28	350
Benzo[ghi]perylene		17	U	17	350
Benzo[k]fluoranthene		42	U	42	350
Bis(2-chloroethoxy)methane		24	U	24	350
Bis(2-chloroethyl)ether		18	U	18	350
bis (2-chloroisopropyl) ether		24	U	24	350
Bis(2-ethylhexyl) phthalate		86	J B	49	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		46	U	46	350
Carbazole		38	U	38	350
4-Chloroaniline		87	U	87	350
4-Chloro-3-methylphenol		70	U	70	350
2-Chloronaphthalene		11	U	11	350
2-Chlorophenol		22	U	22	350
4-Chlorophenyl phenyl ether		22	U	22	350
Chrysene		29	U	29	350
Dibenz(a,h)anthracene		20	U	20	350
Dibenzofuran		21	U	21	350
1,2-Dichlorobenzene		23	U	23	350
1,3-Dichlorobenzene		13	U	13	350
1,4-Dichlorobenzene		14	U	14	350
3,3'-Dichlorobenzidine		95	U	95	700
2,4-Dichlorophenol		11	U	11	350
Diethyl phthalate		28	U	28	350
2,4-Dimethylphenol		70	U	70	350
Dimethyl phthalate		24	U	24	350
Di-n-butyl phthalate		31	U	31	350
4,6-Dinitro-2-methylphenol		350	U	350	700
2,4-Dinitrophenol		350	U	350	870
2,4-Dinitrotoluene		70	U	70	350
2,6-Dinitrotoluene		30	U	30	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		38	U	38	350
Fluorene		19	U	19	350
Hexachlorobenzene		31	U	31	350
Hexachlorobutadiene		11	U	11	350
Hexachlorocyclopentadiene		53	U	53	350
Hexachloroethane		23	U	23	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: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK48**

Lab Sample ID: 280-13998-12
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 03/25/2011 1310
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2782.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 2135			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	350
3 & 4 Methylphenol		35	U	35	350
Naphthalene		33	U	33	350
2-Nitroaniline		53	U	53	350
3-Nitroaniline		77	U	77	350
4-Nitroaniline		77	U	77	350
Nitrobenzene		23	U	23	350
2-Nitrophenol		11	U	11	350
4-Nitrophenol		100	U	100	700
N-Nitrosodi-n-propylamine		33	U	33	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	700
Phenanthrene		18	U	18	350
Phenol		19	U	19	350
Pyrene		13	U	13	350
1,2,4-Trichlorobenzene		30	U	30	350
2,4,5-Trichlorophenol		11	U	11	350
2,4,6-Trichlorophenol		11	U	11	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	78		50 - 120
2-Fluorophenol	82		53 - 120
Nitrobenzene-d5	71		50 - 120
Phenol-d5	82		52 - 120
Terphenyl-d14	103		55 - 120
2,4,6-Tribromophenol	84		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK48**

Lab Sample ID: 280-13998-12
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 03/25/2011 1310
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2782.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 2135			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.09	2300	J N
	Unknown	2.32	170	J N
2216-30-0	Heptane, 2,5-dimethyl-	2.42	220	J N
	Unknown	2.49	3800	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK49**

Lab Sample ID: 280-13998-13
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2783.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	03/30/2011 2154			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		20	U	20	320
Benzo[a]pyrene		20	U	20	320
Benzo[b]fluoranthene		26	U	26	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		23	U	23	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		23	U	23	320
Bis(2-ethylhexyl) phthalate		82	J B	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		65	U	65	320
2-Chloronaphthalene		9.8	U	9.8	320
2-Chlorophenol		21	U	21	320
4-Chlorophenyl phenyl ether		21	U	21	320
Chrysene		27	U	27	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		20	U	20	320
1,2-Dichlorobenzene		22	U	22	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		88	U	88	650
2,4-Dichlorophenol		9.8	U	9.8	320
Diethyl phthalate		26	U	26	320
2,4-Dimethylphenol		65	U	65	320
Dimethyl phthalate		23	U	23	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	650
2,4-Dinitrophenol		330	U	330	810
2,4-Dinitrotoluene		65	U	65	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.8	U	9.8	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		22	U	22	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK49**

Lab Sample ID: 280-13998-13
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2783.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	03/30/2011 2154			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		72	U	72	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		22	U	22	320
2-Nitrophenol		9.8	U	9.8	320
4-Nitrophenol		95	U	95	650
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		21	U	21	320
Pentachlorophenol		320	U	320	650
Phenanthrene		17	U	17	320
Phenol		18	U	18	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.8	U	9.8	320
2,4,6-Trichlorophenol		9.8	U	9.8	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	79		50 - 120
2-Fluorophenol	81		53 - 120
Nitrobenzene-d5	71		50 - 120
Phenol-d5	80		52 - 120
Terphenyl-d14	112		55 - 120
2,4,6-Tribromophenol	87		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK49**

Lab Sample ID: 280-13998-13
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2783.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	03/30/2011 2154			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.10	240	J N
2213-23-2	Heptane, 2,4-dimethyl-	2.31	150	J N
2216-30-0	Heptane, 2,5-dimethyl-	2.42	160	J N
	Unknown	2.49	3400	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK50**

Lab Sample ID: 280-13998-14EB
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 03/25/2011 1205
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2784.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/30/2011 2213			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		20	U	20	320
Benzo[a]pyrene		20	U	20	320
Benzo[b]fluoranthene		26	U	26	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		23	U	23	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		23	U	23	320
Bis(2-ethylhexyl) phthalate		94	J B	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		65	U	65	320
2-Chloronaphthalene		9.8	U	9.8	320
2-Chlorophenol		21	U	21	320
4-Chlorophenyl phenyl ether		21	U	21	320
Chrysene		27	U	27	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		20	U	20	320
1,2-Dichlorobenzene		22	U	22	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		88	U	88	650
2,4-Dichlorophenol		9.8	U	9.8	320
Diethyl phthalate		26	U	26	320
2,4-Dimethylphenol		65	U	65	320
Dimethyl phthalate		23	U	23	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	650
2,4-Dinitrophenol		330	U	330	810
2,4-Dinitrotoluene		65	U	65	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.8	U	9.8	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		22	U	22	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK50**

Lab Sample ID: 280-13998-14EB
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 03/25/2011 1205
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2784.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/30/2011 2213			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

Analyte	DryWt.Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		72	U	72	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		22	U	22	320
2-Nitrophenol		9.8	U	9.8	320
4-Nitrophenol		95	U	95	650
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		21	U	21	320
Pentachlorophenol		320	U	320	650
Phenanthrene		17	U	17	320
Phenol		18	U	18	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.8	U	9.8	320
2,4,6-Trichlorophenol		9.8	U	9.8	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	67		50 - 120
2-Fluorophenol	68		53 - 120
Nitrobenzene-d5	61		50 - 120
Phenol-d5	69		52 - 120
Terphenyl-d14	107		55 - 120
2,4,6-Tribromophenol	78		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK50**

Lab Sample ID: 280-13998-14EB
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 03/25/2011 1205
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-59843	Lab File ID:	D2784.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/30/2011 2213			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
2216-30-0	Heptane, 2,5-dimethyl-	2.42	140	J N
	Unknown	2.49	2800	J N
	Unknown	9.43	260	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK37**

Lab Sample ID: 280-13998-1
Client Matrix: Solid

% Moisture: 5.0

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59821	Initial Weight/Volume:	31.5 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 2315			Injection Volume:	1 uL
Prep Date:	03/29/2011 1535			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.7
alpha-BHC		0.21	U	0.21	1.7
beta-BHC		0.67	U	0.67	1.7
delta-BHC		0.40	U	0.40	1.7
gamma-BHC (Lindane)		0.47	U	0.47	1.7
Heptachlor		0.21	U	0.21	1.7
Heptachlor epoxide		0.43	U	0.43	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U N	0.29	1.7
Endosulfan sulfate		0.28	U N	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.17	U N	0.17	1.7
Endrin ketone		0.49	U N	0.49	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.45	U N	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	87		59 - 115
Decachlorobiphenyl	91		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK38**

Lab Sample ID: 280-13998-2
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 03/25/2011 1215
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59821	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/31/2011 0007			Injection Volume:	1 uL
Prep Date:	03/29/2011 1535			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.56	U	0.56	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.61	U	0.61	1.7
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.68	U	0.68	1.7
delta-BHC		0.41	U	0.41	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.18	U	0.18	1.7
Endrin ketone		0.50	U	0.50	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.46	U	0.46	3.4
alpha-Chlordane		0.33	U	0.33	1.7
Dieldrin		0.22	U	0.22	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	87		59 - 115
Decachlorobiphenyl	96		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK39**

Lab Sample ID: 280-13998-3
Client Matrix: Solid
% Moisture: 8.0

Date Sampled: 03/25/2011 1305
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59821	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/31/2011 0024			Injection Volume:	1 uL
Prep Date:	03/29/2011 1535			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.58	U	0.58	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.63	U	0.63	1.8
Aldrin		0.27	U	0.27	1.8
alpha-BHC		0.23	U	0.23	1.8
beta-BHC		0.71	U	0.71	1.8
delta-BHC		0.43	U	0.43	1.8
gamma-BHC (Lindane)		0.50	U	0.50	1.8
Heptachlor		0.23	U	0.23	1.8
Heptachlor epoxide		0.46	U	0.46	1.8
Endosulfan I		0.19	U	0.19	1.8
Endosulfan II		0.31	U	0.31	1.8
Endosulfan sulfate		0.30	U	0.30	1.8
Endrin		0.33	U	0.33	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.52	U	0.52	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.48	U	0.48	3.5
alpha-Chlordane		0.35	U	0.35	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	180

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	88		59 - 115
Decachlorobiphenyl	91		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK40**

Lab Sample ID: 280-13998-4
Client Matrix: Solid

% Moisture: 4.3

Date Sampled: 03/25/2011 1220
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59821	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/31/2011 0041			Injection Volume:	1 uL
Prep Date:	03/29/2011 1535			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	86		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK41**

Lab Sample ID: 280-13998-5
Client Matrix: Solid

% Moisture: 5.3

Date Sampled: 03/25/2011 1225
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59821	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/31/2011 0059			Injection Volume:	1 uL
Prep Date:	03/29/2011 1535			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	84		59 - 115
Decachlorobiphenyl	88		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK42**

Lab Sample ID: 280-13998-6
Client Matrix: Solid

% Moisture: 5.4

Date Sampled: 03/25/2011 1240
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59821	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/31/2011 0116			Injection Volume:	1 uL
Prep Date:	03/29/2011 1535			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.58	U	0.58	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.62	U	0.62	1.8
Aldrin		0.27	U	0.27	1.7
alpha-BHC		0.23	U	0.23	1.7
beta-BHC		0.70	U	0.70	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.49	U	0.49	1.7
Heptachlor		0.23	U	0.23	1.7
Heptachlor epoxide		0.45	U	0.45	1.7
Endosulfan I		0.19	U	0.19	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.52	U	0.52	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.48	U	0.48	3.5
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	90		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK43**

Lab Sample ID: 280-13998-7
Client Matrix: Solid
% Moisture: 5.6

Date Sampled: 03/25/2011 1245
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59821	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/31/2011 0225			Injection Volume:	1 uL
Prep Date:	03/29/2011 1535			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	85		59 - 115
Decachlorobiphenyl	92		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK44**

Lab Sample ID: 280-13998-8
Client Matrix: Solid

% Moisture: 4.0

Date Sampled: 03/25/2011 1250
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59821	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/31/2011 0242			Injection Volume:	1 uL
Prep Date:	03/29/2011 1535			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.56	U	0.56	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.60	U	0.60	1.7
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.68	U	0.68	1.7
delta-BHC		0.41	U	0.41	1.7
gamma-BHC (Lindane)		0.47	U	0.47	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.43	U	0.43	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.50	U	0.50	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.46	U	0.46	3.4
alpha-Chlordane		0.33	U	0.33	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	91		59 - 115
Decachlorobiphenyl	113		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK45**

Lab Sample ID: 280-13998-9
Client Matrix: Solid

% Moisture: 5.5

Date Sampled: 03/25/2011 1325
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59821	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/31/2011 0300			Injection Volume:	1 uL
Prep Date:	03/29/2011 1535			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.56	U	0.56	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.60	U	0.60	1.7
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.68	U	0.68	1.7
delta-BHC		0.41	U	0.41	1.7
gamma-BHC (Lindane)		0.47	U	0.47	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.43	U	0.43	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.50	U	0.50	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.46	U	0.46	3.4
alpha-Chlordane		0.33	U	0.33	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	89		59 - 115
Decachlorobiphenyl	84		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK46**

Lab Sample ID: 280-13998-10
Client Matrix: Solid

% Moisture: 4.2

Date Sampled: 03/25/2011 1320
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59821	Initial Weight/Volume:	32.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/31/2011 0317			Injection Volume:	1 uL
Prep Date:	03/29/2011 1535			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.52	U	0.52	1.6
4,4'-DDE		0.23	U	0.23	1.6
4,4'-DDT		0.56	U	0.56	1.6
Aldrin		0.24	U	0.24	1.6
alpha-BHC		0.20	U	0.20	1.6
beta-BHC		0.64	U	0.64	1.6
delta-BHC		0.38	U	0.38	1.6
gamma-BHC (Lindane)		0.44	U	0.44	1.6
Heptachlor		0.20	U	0.20	1.6
Heptachlor epoxide		0.41	U	0.41	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.27	U	0.27	1.6
Endosulfan sulfate		0.26	U	0.26	1.6
Endrin		0.29	U	0.29	1.6
Endrin aldehyde		0.16	U	0.16	1.6
Endrin ketone		0.47	U	0.47	1.6
gamma-Chlordane		0.25	U	0.25	1.6
Methoxychlor		0.43	U	0.43	3.2
alpha-Chlordane		0.31	U	0.31	1.6
Dieldrin		0.20	U	0.20	1.6
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	91		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK47**

Lab Sample ID: 280-13998-11
Client Matrix: Solid

% Moisture: 4.0

Date Sampled: 03/25/2011 1315
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59821	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/31/2011 0334			Injection Volume:	1 uL
Prep Date:	03/29/2011 1535			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.33	U	0.33	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	88		59 - 115
Decachlorobiphenyl	89		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK48**

Lab Sample ID: 280-13998-12
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 03/25/2011 1310
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59821	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/31/2011 0352			Injection Volume:	1 uL
Prep Date:	03/29/2011 1535			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.58	U	0.58	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.63	U	0.63	1.8
Aldrin		0.27	U	0.27	1.8
alpha-BHC		0.23	U	0.23	1.8
beta-BHC		0.71	U	0.71	1.8
delta-BHC		0.43	U	0.43	1.8
gamma-BHC (Lindane)		0.49	U	0.49	1.8
Heptachlor		0.23	U	0.23	1.8
Heptachlor epoxide		0.45	U	0.45	1.8
Endosulfan I		0.19	U	0.19	1.8
Endosulfan II		0.31	U	0.31	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.33	U	0.33	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.52	U	0.52	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.48	U	0.48	3.5
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	180

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	87		59 - 115
Decachlorobiphenyl	87		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK49**

Lab Sample ID: 280-13998-13
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59821	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/31/2011 0409			Injection Volume:	1 uL
Prep Date:	03/29/2011 1535			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.56	U	0.56	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.68	U	0.68	1.7
delta-BHC		0.41	U	0.41	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.28	U	0.28	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.50	U	0.50	1.8
gamma-Chlordane		0.27	U	0.27	1.8
Methoxychlor		0.46	U	0.46	3.4
alpha-Chlordane		0.33	U	0.33	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	91		59 - 115
Decachlorobiphenyl	95		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK37**

Lab Sample ID: 280-13998-1
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59845	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/01/2011 2241			Injection Volume:	1 uL
Prep Date:	03/29/2011 1630			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.3	U	8.3	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	95		59 - 130
Tetrachloro-m-xylene	83		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK38**

Lab Sample ID: 280-13998-2
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 03/25/2011 1215
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59845	Initial Weight/Volume:	32.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/01/2011 2303			Injection Volume:	1 uL
Prep Date:	03/29/2011 1630			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	100		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK39**

Lab Sample ID: 280-13998-3
Client Matrix: Solid
% Moisture: 8.0

Date Sampled: 03/25/2011 1305
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59845	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/01/2011 2324			Injection Volume:	1 uL
Prep Date:	03/29/2011 1630			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	99		59 - 130
Tetrachloro-m-xylene	85		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK40**

Lab Sample ID: 280-13998-4
Client Matrix: Solid

% Moisture: 4.3

Date Sampled: 03/25/2011 1220
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59845	Initial Weight/Volume:	32.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/01/2011 2345			Injection Volume:	1 uL
Prep Date:	03/29/2011 1630			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.8
Aroclor 1221		7.9	U	7.9	16
Aroclor 1232		2.0	U	2.0	9.8
Aroclor 1242		4.6	U	4.6	9.8
Aroclor 1248		4.6	U	4.6	9.8
Aroclor 1254		2.5	U	2.5	9.8
Aroclor 1260		2.5	U	2.5	9.8

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK41**

Lab Sample ID: 280-13998-5
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/25/2011 1225
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59845	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/02/2011 0028			Injection Volume:	1 uL
Prep Date:	03/29/2011 1630			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	99		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK42**

Lab Sample ID: 280-13998-6
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 03/25/2011 1240
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59845	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/02/2011 0132			Injection Volume:	1 uL
Prep Date:	03/29/2011 1630			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.3	U	8.3	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	98		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK43**

Lab Sample ID: 280-13998-7
Client Matrix: Solid
% Moisture: 5.6

Date Sampled: 03/25/2011 1245
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59845	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/02/2011 0153			Injection Volume:	1 uL
Prep Date:	03/29/2011 1630			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.2	U	8.2	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	96		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK44**

Lab Sample ID: 280-13998-8
Client Matrix: Solid

% Moisture: 4.0

Date Sampled: 03/25/2011 1250
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59845	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/02/2011 0215			Injection Volume:	1 uL
Prep Date:	03/29/2011 1630			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	101		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK45**

Lab Sample ID: 280-13998-9
Client Matrix: Solid
% Moisture: 5.5

Date Sampled: 03/25/2011 1325
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59845	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/02/2011 0236			Injection Volume:	1 uL
Prep Date:	03/29/2011 1630			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.3	U	8.3	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	91		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK46**

Lab Sample ID: 280-13998-10
Client Matrix: Solid

% Moisture: 4.2

Date Sampled: 03/25/2011 1320
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59845	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/02/2011 0258			Injection Volume:	1 uL
Prep Date:	03/29/2011 1630			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK47**

Lab Sample ID: 280-13998-11
Client Matrix: Solid
% Moisture: 4.0

Date Sampled: 03/25/2011 1315
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59845	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/02/2011 0319			Injection Volume:	1 uL
Prep Date:	03/29/2011 1630			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	100		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK48**

Lab Sample ID: 280-13998-12
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 03/25/2011 1310
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59845	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/02/2011 0340			Injection Volume:	1 uL
Prep Date:	03/29/2011 1630			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.3	U	8.3	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	103		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK49**

Lab Sample ID: 280-13998-13
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59845	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/02/2011 0423			Injection Volume:	1 uL
Prep Date:	03/29/2011 1630			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	105		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK37**

Lab Sample ID: 280-13998-1
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59865	Lab File ID:	059B1201.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	03/30/2011 1909			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		990	U	990	4000
C10-C28		680	U	680	4000

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK38**

Lab Sample ID: 280-13998-2
Client Matrix: Solid

% Moisture: 4.4

Date Sampled: 03/25/2011 1215
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59865	Lab File ID:	060B1301.D
Dilution:	1.0			Initial Weight/Volume:	33.0 g
Analysis Date:	03/30/2011 1942			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		950	U	950	3800
C10-C28		640	U	640	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	73		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK39**

Lab Sample ID: 280-13998-3
Client Matrix: Solid
% Moisture: 8.0

Date Sampled: 03/25/2011 1305
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59865	Lab File ID:	063B1601.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	03/30/2011 2122			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL

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

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK40**

Lab Sample ID: 280-13998-4
Client Matrix: Solid

% Moisture: 4.3

Date Sampled: 03/25/2011 1220
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59865	Lab File ID:	064B1701.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	03/30/2011 2155			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	73		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK41**

Lab Sample ID: 280-13998-5
Client Matrix: Solid

% Moisture: 5.3

Date Sampled: 03/25/2011 1225
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59865	Lab File ID:	065B1801.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	03/30/2011 2228			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	73		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK42**

Lab Sample ID: 280-13998-6
Client Matrix: Solid

% Moisture: 5.4

Date Sampled: 03/25/2011 1240
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59865	Lab File ID:	067B2001.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	03/30/2011 2334			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL

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

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK43**

Lab Sample ID: 280-13998-7
Client Matrix: Solid

% Moisture: 5.6

Date Sampled: 03/25/2011 1245
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59865	Lab File ID:	068B2101.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	03/31/2011 0008			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1700	J	1000	4100
C10-C28		690	U	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	72		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK44**

Lab Sample ID: 280-13998-8
Client Matrix: Solid

% Moisture: 4.0

Date Sampled: 03/25/2011 1250
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59865	Lab File ID:	069B2201.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	03/31/2011 0041			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL

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

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK45**

Lab Sample ID: 280-13998-9
Client Matrix: Solid

% Moisture: 5.5

Date Sampled: 03/25/2011 1325
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59865	Lab File ID:	070B2301.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	03/31/2011 0114			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	70		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK46**

Lab Sample ID: 280-13998-10
Client Matrix: Solid

% Moisture: 4.2

Date Sampled: 03/25/2011 1320
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59865	Lab File ID:	071B2401.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/31/2011 0146			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL

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

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK47**

Lab Sample ID: 280-13998-11
Client Matrix: Solid
% Moisture: 4.0

Date Sampled: 03/25/2011 1315
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59865	Lab File ID:	072B2501.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	03/31/2011 0219			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	72		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK48**

Lab Sample ID: 280-13998-12
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 03/25/2011 1310
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59865	Lab File ID:	073B2601.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	03/31/2011 0252			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1300	J	1000	4200
C10-C28		820	J	710	4200

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK49**

Lab Sample ID: 280-13998-13
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59865	Lab File ID:	074B2701.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	03/31/2011 0324			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL

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

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK50**

Lab Sample ID: 280-13998-14EB
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 03/25/2011 1205
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60598	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-60452	Lab File ID:	007B0701.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	04/04/2011 1154	Run Type:	RE	Final Weight/Volume:	1000 uL
Prep Date:	04/01/2011 2220			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		8300		960	3900
C10-C28		7300		650	3900

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK37**

Lab Sample ID: 280-13998-1
Client Matrix: Solid

% Moisture: 5.0

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	03/30/2011 1842			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum	9520	X	1.6	5.1
Antimony	0.38	U	0.38	0.61
Arsenic	3.5		0.67	1.0
Barium	81.8	X	0.077	0.51
Beryllium	0.13	B	0.033	0.20
Boron	1.7	B	0.99	2.0
Cadmium	0.087	B	0.041	0.20
Calcium	4200	X	14.3	50.6
Chromium	11.7	X	0.059	0.20
Cobalt	8.6	X	0.10	1.0
Copper	15.7	X	0.22	1.0
Iron	21900	X	3.8	5.1
Lead	4.0		0.27	0.51
Magnesium	4380	X	3.7	20.2
Manganese	352	X	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	11.6	X	0.12	4.0
Potassium	2040		41.5	304
Selenium	0.87	U	0.87	1.0
Silicon	445	X N	5.7	10.1
Silver	0.16	U	0.16	0.20
Sodium	221		59.7	121
Vanadium	51.0	X	0.095	2.0
Zinc	41.9	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	03/31/2011 1932			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Mercury	0.0053	U	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK38**

Lab Sample ID: 280-13998-2
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 03/25/2011 1215
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.20 g
Analysis Date:	03/30/2011 1851			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6810	X	1.4	4.4
Antimony		0.33	U	0.33	0.52
Arsenic		3.4		0.58	0.87
Barium		55.7	X	0.066	0.44
Beryllium		0.029	U	0.029	0.17
Boron		1.2	B	0.85	1.7
Cadmium		0.055	B	0.036	0.17
Calcium		18000	X	12.3	43.6
Chromium		9.8	X	0.051	0.17
Cobalt		9.2	X	0.087	0.87
Copper		18.6	X	0.19	0.87
Iron		23300	X	3.3	4.4
Lead		3.1		0.24	0.44
Magnesium		5060	X	3.2	17.4
Manganese		320	X	0.087	0.87
Molybdenum		0.39	B	0.23	1.7
Nickel		12.3	X	0.11	3.5
Potassium		1170		35.7	261
Selenium		0.75	U	0.75	0.87
Silicon		258	X	4.9	8.7
Silver		0.14	U	0.14	0.17
Sodium		264		51.4	105
Vanadium		60.2	X	0.082	1.7
Zinc		43.7	X	0.35	0.87

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	03/31/2011 1934			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK39**

Lab Sample ID: 280-13998-3
Client Matrix: Solid
% Moisture: 8.0

Date Sampled: 03/25/2011 1305
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	03/30/2011 1854			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9430	X	1.6	5.2
Antimony		0.40	U	0.40	0.63
Arsenic		3.1		0.69	1.0
Barium		93.4	X	0.079	0.52
Beryllium		0.11	B	0.034	0.21
Boron		1.4	B	1.0	2.1
Cadmium		0.098	B	0.043	0.21
Calcium		3990	X	14.7	52.3
Chromium		11.5	X	0.061	0.21
Cobalt		9.2	X	0.10	1.0
Copper		15.5	X	0.23	1.0
Iron		22800	X	4.0	5.2
Lead		4.5		0.28	0.52
Magnesium		4710	X	3.9	20.9
Manganese		379	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		12.8	X	0.13	4.2
Potassium		1990		42.9	314
Selenium		0.90	U	0.90	1.0
Silicon		477	X	5.9	10.5
Silver		0.17	U	0.17	0.21
Sodium		205		61.7	125
Vanadium		56.1	X	0.098	2.1
Zinc		42.7	X	0.42	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	03/31/2011 1936			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK40**

Lab Sample ID: 280-13998-4
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 03/25/2011 1220
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	03/30/2011 1856			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6380	X	1.6	5.2
Antimony		0.39	U	0.39	0.62
Arsenic		2.5		0.68	1.0
Barium		79.3	X	0.079	0.52
Beryllium		0.034	B	0.034	0.21
Boron		1.0	U	1.0	2.1
Cadmium		0.070	B	0.042	0.21
Calcium		12900	X	14.6	51.7
Chromium		10.5	X	0.060	0.21
Cobalt		7.1	X	0.10	1.0
Copper		14.5	X	0.22	1.0
Iron		17500	X	3.9	5.2
Lead		2.6		0.28	0.52
Magnesium		4180	X	3.8	20.7
Manganese		323	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		10.4	X	0.13	4.1
Potassium		963		42.4	310
Selenium		0.89	U	0.89	1.0
Silicon		405	X	5.9	10.3
Silver		0.17	U	0.17	0.21
Sodium		180		61.0	124
Vanadium		46.2	X	0.097	2.1
Zinc		32.8	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	03/31/2011 1939			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0061	B	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK41**

Lab Sample ID: 280-13998-5
Client Matrix: Solid

% Moisture: 5.3

Date Sampled: 03/25/2011 1225
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	03/30/2011 1908			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7860	X	1.5	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		3.2		0.66	1.0
Barium		80.4	X	0.076	0.50
Beryllium		0.063	B	0.033	0.20
Boron		1.0	B	0.98	2.0
Cadmium		0.089	B	0.041	0.20
Calcium		5230	X	14.1	49.8
Chromium		11.1	X	0.058	0.20
Cobalt		8.8	X	0.10	1.0
Copper		17.2	X	0.22	1.0
Iron		21500	X	3.8	5.0
Lead		3.7		0.27	0.50
Magnesium		4870	X	3.7	19.9
Manganese		338	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		11.9	X	0.12	4.0
Potassium		1220		40.9	299
Selenium		0.86	U	0.86	1.0
Silicon		723	X	5.6	10
Silver		0.16	U	0.16	0.20
Sodium		237		58.8	120
Vanadium		55.1	X	0.094	2.0
Zinc		42.0	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	03/31/2011 1941			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK42**

Lab Sample ID: 280-13998-6
Client Matrix: Solid

% Moisture: 5.4

Date Sampled: 03/25/2011 1240
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	03/30/2011 1910			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8610	X	1.6	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		2.6		0.66	1.0
Barium		75.4	X	0.076	0.50
Beryllium		0.095	B	0.033	0.20
Boron		1.4	B	0.99	2.0
Cadmium		0.094	B	0.041	0.20
Calcium		4110	X	14.2	50.3
Chromium		10.7	X	0.058	0.20
Cobalt		8.3	X	0.10	1.0
Copper		15.8	X	0.22	1.0
Iron		20300	X	3.8	5.0
Lead		3.8		0.27	0.50
Magnesium		4530	X	3.7	20.1
Manganese		338	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		12.0	X	0.12	4.0
Potassium		1620		41.3	302
Selenium		0.87	U	0.87	1.0
Silicon		431	X	5.7	10.1
Silver		0.17	B C	0.16	0.20
Sodium		221		59.4	121
Vanadium		48.6	X	0.095	2.0
Zinc		40.0	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	03/31/2011 1943			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0059	B	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK43**

Lab Sample ID: 280-13998-7
Client Matrix: Solid

% Moisture: 5.6

Date Sampled: 03/25/2011 1245
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	03/30/2011 1912			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8850	X	1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		3.2		0.67	1.0
Barium		91.0	X	0.077	0.51
Beryllium		0.11	B	0.034	0.20
Boron		1.8	B	1.0	2.0
Cadmium		0.11	B	0.042	0.20
Calcium		6900	X	14.4	50.9
Chromium		12.3	X	0.059	0.20
Cobalt		8.6	X	0.10	1.0
Copper		17.0	X	0.22	1.0
Iron		21600	X	3.9	5.1
Lead		4.2		0.27	0.51
Magnesium		4800	X	3.8	20.4
Manganese		350	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		12.3	X	0.13	4.1
Potassium		1820		41.7	305
Selenium		0.88	U	0.88	1.0
Silicon		416	X	5.8	10.2
Silver		0.16	B C	0.16	0.20
Sodium		237		60.1	122
Vanadium		51.5	X	0.096	2.0
Zinc		41.3	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	03/31/2011 1946			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0057	B	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK44**

Lab Sample ID: 280-13998-8
Client Matrix: Solid
% Moisture: 4.0

Date Sampled: 03/25/2011 1250
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	03/30/2011 1915			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6290	X	1.5	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		3.2		0.66	0.99
Barium		61.3	X	0.075	0.50
Beryllium		0.033	U	0.033	0.20
Boron		0.97	U	0.97	2.0
Cadmium		0.072	B	0.041	0.20
Calcium		10000	X	14.0	49.6
Chromium		8.2	X	0.058	0.20
Cobalt		8.5	X	0.099	0.99
Copper		15.1	X	0.22	0.99
Iron		21900	X	3.8	5.0
Lead		2.6		0.27	0.50
Magnesium		4490	X	3.7	19.9
Manganese		308	X	0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		9.2	X	0.12	4.0
Potassium		892		40.7	298
Selenium		0.85	U	0.85	0.99
Silicon		283	X	5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		279		58.6	119
Vanadium		62.5	X	0.093	2.0
Zinc		41.3	X	0.40	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	03/31/2011 1948			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0053	B	0.0050	0.015

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK45**

Lab Sample ID: 280-13998-9
Client Matrix: Solid

% Moisture: 5.5

Date Sampled: 03/25/2011 1325
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	03/30/2011 1917			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8710	X	1.5	4.9
Antimony		0.38	U	0.38	0.59
Arsenic		3.2		0.65	0.99
Barium		86.4	X	0.075	0.49
Beryllium		0.11	B	0.033	0.20
Boron		1.6	B	0.97	2.0
Cadmium		0.096	B	0.041	0.20
Calcium		5600	X	13.9	49.5
Chromium		12.2	X	0.057	0.20
Cobalt		8.1	X	0.099	0.99
Copper		15.1	X	0.21	0.99
Iron		19900	X	3.8	4.9
Lead		4.2		0.27	0.49
Magnesium		4410	X	3.7	19.8
Manganese		347	X	0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		12.2	X	0.12	4.0
Potassium		1870		40.5	297
Selenium		0.85	U	0.85	0.99
Silicon		472	X	5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		217		58.4	119
Vanadium		49.5	X	0.093	2.0
Zinc		39.8	X	0.39	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	03/31/2011 1950			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0058	B	0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK46**

Lab Sample ID: 280-13998-10
Client Matrix: Solid

% Moisture: 4.2

Date Sampled: 03/25/2011 1320
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	03/30/2011 1920			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7310	X	1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		2.8		0.64	0.97
Barium		58.2	X	0.073	0.48
Beryllium		0.032	U	0.032	0.19
Boron		0.95	U	0.95	1.9
Cadmium		0.068	B	0.040	0.19
Calcium		5470	X	13.6	48.3
Chromium		7.5	X	0.056	0.19
Cobalt		10	X	0.097	0.97
Copper		19.4	X	0.21	0.97
Iron		24500	X	3.7	4.8
Lead		3.2		0.26	0.48
Magnesium		4760	X	3.6	19.3
Manganese		328	X	0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		10.3	X	0.12	3.9
Potassium		904		39.6	290
Selenium		0.83	U	0.83	0.97
Silicon		379	X	5.5	9.7
Silver		0.15	U	0.15	0.19
Sodium		336		57.0	116
Vanadium		62.6	X	0.091	1.9
Zinc		45.1	X	0.38	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	03/31/2011 2002			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0095	B	0.0050	0.015

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK47**

Lab Sample ID: 280-13998-11
Client Matrix: Solid

% Moisture: 4.0

Date Sampled: 03/25/2011 1315
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	03/30/2011 1922			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8970	X	1.6	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		3.3		0.66	1.0
Barium		84.1	X	0.076	0.50
Beryllium		0.089	B	0.033	0.20
Boron		1.3	B	0.98	2.0
Cadmium		0.10	B	0.041	0.20
Calcium		4800	X	14.1	50.1
Chromium		14.0	X	0.058	0.20
Cobalt		9.1	X	0.10	1.0
Copper		17.7	X	0.22	1.0
Iron		21600	X	3.8	5.0
Lead		4.1		0.27	0.50
Magnesium		4840	X	3.7	20.0
Manganese		333	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		14.5	X	0.12	4.0
Potassium		1620		41.1	301
Selenium		0.86	U	0.86	1.0
Silicon		418	X	5.7	10.0
Silver		0.16	U	0.16	0.20
Sodium		247		59.1	120
Vanadium		53.0	X	0.094	2.0
Zinc		40.4	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	03/31/2011 2004			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK48**

Lab Sample ID: 280-13998-12
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 03/25/2011 1310
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	03/30/2011 1925			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9330	X	1.5	4.9
Antimony		0.37	U	0.37	0.58
Arsenic		3.0		0.64	0.97
Barium		94.2	X	0.074	0.49
Beryllium		0.12	B	0.032	0.19
Boron		1.7	B	0.95	1.9
Cadmium		0.15	B	0.040	0.19
Calcium		3800	X	13.7	48.5
Chromium		13.0	X	0.056	0.19
Cobalt		9.2	X	0.097	0.97
Copper		14.9	X	0.21	0.97
Iron		20700	X	3.7	4.9
Lead		4.2		0.26	0.49
Magnesium		4350	X	3.6	19.4
Manganese		374	X	0.097	0.97
Molybdenum		0.25	B	0.25	1.9
Nickel		12.4	X	0.12	3.9
Potassium		2510		39.8	291
Selenium		0.83	U	0.83	0.97
Silicon		473	X	5.5	9.7
Silver		0.16	U	0.16	0.19
Sodium		239		57.3	116
Vanadium		48.9	X	0.091	1.9
Zinc		44.7	X	0.39	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 2006			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK49**

Lab Sample ID: 280-13998-13
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	03/30/2011 1927			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5650	X	1.5	4.9
Antimony		0.38	U	0.38	0.59
Arsenic		3.2		0.65	0.99
Barium		51.3	X	0.075	0.49
Beryllium		0.033	U	0.033	0.20
Boron		0.97	U	0.97	2.0
Cadmium		0.057	B	0.041	0.20
Calcium		12200	X	13.9	49.4
Chromium		6.4	X	0.057	0.20
Cobalt		9.1	X	0.099	0.99
Copper		17.3	X	0.21	0.99
Iron		22500	X	3.8	4.9
Lead		2.6		0.27	0.49
Magnesium		3850	X	3.7	19.8
Manganese		269	X	0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		9.0	X	0.12	4.0
Potassium		915		40.5	296
Selenium		0.85	U	0.85	0.99
Silicon		237	X	5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		347		58.3	119
Vanadium		56.1	X	0.093	2.0
Zinc		38.5	X	0.39	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	03/31/2011 2009			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Client Sample ID: **J1FK50**

Lab Sample ID: 280-13998-14EB
Client Matrix: Solid

% Moisture: 0.1

Date Sampled: 03/25/2011 1205
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	03/30/2011 1929			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		214	X	1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		0.60	U	0.60	0.90
Barium		2.3	X	0.069	0.45
Beryllium		0.057	B	0.030	0.18
Boron		0.88	U	0.88	1.8
Cadmium		0.037	U	0.037	0.18
Calcium		49.0	X	12.7	45.1
Chromium		0.21	X	0.052	0.18
Cobalt		0.14	B X	0.090	0.90
Copper		0.33	B X	0.20	0.90
Iron		552	X	3.4	4.5
Lead		0.43	B	0.24	0.45
Magnesium		31.6	X	3.3	18.0
Manganese		6.3	X	0.090	0.90
Molybdenum		0.23	U	0.23	1.8
Nickel		0.24	B X	0.11	3.6
Potassium		63.3	B	37.0	271
Selenium		0.78	U	0.78	0.90
Silicon		130	X	5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		53.2	U	53.2	108
Vanadium		0.62	B X	0.085	1.8
Zinc		1.8	X	0.36	0.90

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	03/31/2011 2011			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

General Chemistry

Client Sample ID: **J1FK37**

Lab Sample ID: 280-13998-1
Client Matrix: Solid

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

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

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

General Chemistry

Client Sample ID: **J1FK38**

Lab Sample ID: 280-13998-2
Client Matrix: Solid

Date Sampled: 03/25/2011 1215
Date Received: 03/29/2011 0830

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

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

General Chemistry

Client Sample ID: **J1FK39**

Lab Sample ID: 280-13998-3
Client Matrix: Solid

Date Sampled: 03/25/2011 1305
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

General Chemistry

Client Sample ID: **J1FK40**

Lab Sample ID: 280-13998-4
Client Matrix: Solid

Date Sampled: 03/25/2011 1220
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FK41**

Lab Sample ID: 280-13998-5
Client Matrix: Solid

Date Sampled: 03/25/2011 1225
Date Received: 03/29/2011 0830

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

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

General Chemistry

Client Sample ID: **J1FK42**

Lab Sample ID: 280-13998-6
Client Matrix: Solid

Date Sampled: 03/25/2011 1240
Date Received: 03/29/2011 0830

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

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

General Chemistry

Client Sample ID: **J1FK43**

Lab Sample ID: 280-13998-7
Client Matrix: Solid

Date Sampled: 03/25/2011 1245
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

General Chemistry

Client Sample ID: **J1FK44**

Lab Sample ID: 280-13998-8
Client Matrix: Solid

Date Sampled: 03/25/2011 1250
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

General Chemistry

Client Sample ID: **J1FK45**

Lab Sample ID: 280-13998-9
Client Matrix: Solid

Date Sampled: 03/25/2011 1325
Date Received: 03/29/2011 0830

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

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FK46**

Lab Sample ID: 280-13998-10
Client Matrix: Solid

Date Sampled: 03/25/2011 1320
Date Received: 03/29/2011 0830

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

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

General Chemistry

Client Sample ID: **J1FK47**

Lab Sample ID: 280-13998-11
Client Matrix: Solid

Date Sampled: 03/25/2011 1315
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

General Chemistry

Client Sample ID: **J1FK48**

Lab Sample ID: 280-13998-12
Client Matrix: Solid

Date Sampled: 03/25/2011 1310
Date Received: 03/29/2011 0830

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

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

General Chemistry

Client Sample ID: **J1FK49**

Lab Sample ID: 280-13998-13
Client Matrix: Solid

Date Sampled: 03/25/2011 1210
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

General Chemistry

Client Sample ID: **J1FK50**

Lab Sample ID: 280-13998-14EB
Client Matrix: Solid

Date Sampled: 03/25/2011 1205
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.13		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59794 Analysis Date: 03/29/2011 1231 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-59843					
LCS 280-59843/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-59843/1-A	Method Blank	T	Solid	3550C	
280-13998-1	J1FK37	T	Solid	3550C	
280-13998-2	J1FK38	T	Solid	3550C	
280-13998-2MS	Matrix Spike	T	Solid	3550C	
280-13998-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13998-3	J1FK39	T	Solid	3550C	
280-13998-4	J1FK40	T	Solid	3550C	
280-13998-5	J1FK41	T	Solid	3550C	
280-13998-6	J1FK42	T	Solid	3550C	
280-13998-7	J1FK43	T	Solid	3550C	
280-13998-8	J1FK44	T	Solid	3550C	
280-13998-9	J1FK45	T	Solid	3550C	
280-13998-10	J1FK46	T	Solid	3550C	
280-13998-11	J1FK47	T	Solid	3550C	
280-13998-12	J1FK48	T	Solid	3550C	
280-13998-13	J1FK49	T	Solid	3550C	
280-13998-14EB	J1FK50	T	Solid	3550C	
Analysis Batch:280-60382					
LCS 280-59843/2-A	Lab Control Sample	T	Solid	8270C	280-59843
MB 280-59843/1-A	Method Blank	T	Solid	8270C	280-59843
280-13998-1	J1FK37	T	Solid	8270C	280-59843
280-13998-2	J1FK38	T	Solid	8270C	280-59843
280-13998-2MS	Matrix Spike	T	Solid	8270C	280-59843
280-13998-2MSD	Matrix Spike Duplicate	T	Solid	8270C	280-59843
280-13998-3	J1FK39	T	Solid	8270C	280-59843
280-13998-4	J1FK40	T	Solid	8270C	280-59843
280-13998-5	J1FK41	T	Solid	8270C	280-59843
280-13998-6	J1FK42	T	Solid	8270C	280-59843
280-13998-7	J1FK43	T	Solid	8270C	280-59843
280-13998-8	J1FK44	T	Solid	8270C	280-59843
280-13998-9	J1FK45	T	Solid	8270C	280-59843
280-13998-10	J1FK46	T	Solid	8270C	280-59843
280-13998-11	J1FK47	T	Solid	8270C	280-59843
280-13998-12	J1FK48	T	Solid	8270C	280-59843
280-13998-13	J1FK49	T	Solid	8270C	280-59843
280-13998-14EB	J1FK50	T	Solid	8270C	280-59843

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-59821					
LCS 280-59821/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-59821/1-A	Method Blank	T	Solid	3550C	
280-13998-1	J1FK37	T	Solid	3550C	
280-13998-1MS	Matrix Spike	T	Solid	3550C	
280-13998-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13998-2	J1FK38	T	Solid	3550C	
280-13998-3	J1FK39	T	Solid	3550C	
280-13998-4	J1FK40	T	Solid	3550C	
280-13998-5	J1FK41	T	Solid	3550C	
280-13998-6	J1FK42	T	Solid	3550C	
280-13998-7	J1FK43	T	Solid	3550C	
280-13998-8	J1FK44	T	Solid	3550C	
280-13998-9	J1FK45	T	Solid	3550C	
280-13998-10	J1FK46	T	Solid	3550C	
280-13998-11	J1FK47	T	Solid	3550C	
280-13998-12	J1FK48	T	Solid	3550C	
280-13998-13	J1FK49	T	Solid	3550C	
Prep Batch: 280-59845					
LCS 280-59845/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-59845/1-A	Method Blank	T	Solid	3550C	
280-13998-1	J1FK37	T	Solid	3550C	
280-13998-2	J1FK38	T	Solid	3550C	
280-13998-3	J1FK39	T	Solid	3550C	
280-13998-4	J1FK40	T	Solid	3550C	
280-13998-5	J1FK41	T	Solid	3550C	
280-13998-5MS	Matrix Spike	T	Solid	3550C	
280-13998-5MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13998-6	J1FK42	T	Solid	3550C	
280-13998-7	J1FK43	T	Solid	3550C	
280-13998-8	J1FK44	T	Solid	3550C	
280-13998-9	J1FK45	T	Solid	3550C	
280-13998-10	J1FK46	T	Solid	3550C	
280-13998-11	J1FK47	T	Solid	3550C	
280-13998-12	J1FK48	T	Solid	3550C	
280-13998-13	J1FK49	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-59865					
LCS 280-59865/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-59865/3-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-59865/1-A	Method Blank	T	Solid	3550C	
280-13998-1	J1FK37	T	Solid	3550C	
280-13998-2	J1FK38	T	Solid	3550C	
280-13998-2MS	Matrix Spike	T	Solid	3550C	
280-13998-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13998-3	J1FK39	T	Solid	3550C	
280-13998-4	J1FK40	T	Solid	3550C	
280-13998-5	J1FK41	T	Solid	3550C	
280-13998-6	J1FK42	T	Solid	3550C	
280-13998-7	J1FK43	T	Solid	3550C	
280-13998-8	J1FK44	T	Solid	3550C	
280-13998-9	J1FK45	T	Solid	3550C	
280-13998-10	J1FK46	T	Solid	3550C	
280-13998-11	J1FK47	T	Solid	3550C	
280-13998-12	J1FK48	T	Solid	3550C	
280-13998-13	J1FK49	T	Solid	3550C	
Analysis Batch:280-60153					
LCS 280-59821/2-A	Lab Control Sample	T	Solid	8081A	280-59821
MB 280-59821/1-A	Method Blank	T	Solid	8081A	280-59821
280-13998-1	J1FK37	T	Solid	8081A	280-59821
280-13998-1MS	Matrix Spike	T	Solid	8081A	280-59821
280-13998-1MSD	Matrix Spike Duplicate	T	Solid	8081A	280-59821
280-13998-2	J1FK38	T	Solid	8081A	280-59821
280-13998-3	J1FK39	T	Solid	8081A	280-59821
280-13998-4	J1FK40	T	Solid	8081A	280-59821
280-13998-5	J1FK41	T	Solid	8081A	280-59821
280-13998-6	J1FK42	T	Solid	8081A	280-59821
280-13998-7	J1FK43	T	Solid	8081A	280-59821
280-13998-8	J1FK44	T	Solid	8081A	280-59821
280-13998-9	J1FK45	T	Solid	8081A	280-59821
280-13998-10	J1FK46	T	Solid	8081A	280-59821
280-13998-11	J1FK47	T	Solid	8081A	280-59821
280-13998-12	J1FK48	T	Solid	8081A	280-59821
280-13998-13	J1FK49	T	Solid	8081A	280-59821

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-60389					
LCS 280-59865/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-59865
LCSD 280-59865/3-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-59865
MB 280-59865/1-A	Method Blank	T	Solid	NWTPH-Dx	280-59865
280-13998-1	J1FK37	T	Solid	NWTPH-Dx	280-59865
280-13998-2	J1FK38	T	Solid	NWTPH-Dx	280-59865
280-13998-2MS	Matrix Spike	T	Solid	NWTPH-Dx	280-59865
280-13998-2MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-59865
280-13998-3	J1FK39	T	Solid	NWTPH-Dx	280-59865
280-13998-4	J1FK40	T	Solid	NWTPH-Dx	280-59865
280-13998-5	J1FK41	T	Solid	NWTPH-Dx	280-59865
280-13998-6	J1FK42	T	Solid	NWTPH-Dx	280-59865
280-13998-7	J1FK43	T	Solid	NWTPH-Dx	280-59865
280-13998-8	J1FK44	T	Solid	NWTPH-Dx	280-59865
280-13998-9	J1FK45	T	Solid	NWTPH-Dx	280-59865
280-13998-10	J1FK46	T	Solid	NWTPH-Dx	280-59865
280-13998-11	J1FK47	T	Solid	NWTPH-Dx	280-59865
280-13998-12	J1FK48	T	Solid	NWTPH-Dx	280-59865
280-13998-13	J1FK49	T	Solid	NWTPH-Dx	280-59865
Prep Batch: 280-60452					
LCS 280-60452/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-60452/3-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-60452/1-A	Method Blank	T	Solid	3550C	
280-13998-14EBRE	J1FK50	T	Solid	3550C	
Analysis Batch:280-60487					
LCS 280-59845/2-A	Lab Control Sample	T	Solid	8082	280-59845
MB 280-59845/1-A	Method Blank	T	Solid	8082	280-59845
280-13998-1	J1FK37	T	Solid	8082	280-59845
280-13998-2	J1FK38	T	Solid	8082	280-59845
280-13998-3	J1FK39	T	Solid	8082	280-59845
280-13998-4	J1FK40	T	Solid	8082	280-59845
280-13998-5	J1FK41	T	Solid	8082	280-59845
280-13998-5MS	Matrix Spike	T	Solid	8082	280-59845
280-13998-5MSD	Matrix Spike Duplicate	T	Solid	8082	280-59845
280-13998-6	J1FK42	T	Solid	8082	280-59845
280-13998-7	J1FK43	T	Solid	8082	280-59845
280-13998-8	J1FK44	T	Solid	8082	280-59845
280-13998-9	J1FK45	T	Solid	8082	280-59845
280-13998-10	J1FK46	T	Solid	8082	280-59845
280-13998-11	J1FK47	T	Solid	8082	280-59845
280-13998-12	J1FK48	T	Solid	8082	280-59845
280-13998-13	J1FK49	T	Solid	8082	280-59845

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-60598					
LCS 280-60452/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-60452
LCSD 280-60452/3-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-60452
MB 280-60452/1-A	Method Blank	T	Solid	NWTPH-Dx	280-60452
280-13998-14EBRE	J1FK50	T	Solid	NWTPH-Dx	280-60452

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-59829					
LCS 280-59829/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-59829/1-A	Method Blank	T	Solid	3050B	
280-13998-1	J1FK37	T	Solid	3050B	
280-13998-1DU	Duplicate	T	Solid	3050B	
280-13998-1MS	Matrix Spike	T	Solid	3050B	
280-13998-2	J1FK38	T	Solid	3050B	
280-13998-3	J1FK39	T	Solid	3050B	
280-13998-4	J1FK40	T	Solid	3050B	
280-13998-5	J1FK41	T	Solid	3050B	
280-13998-6	J1FK42	T	Solid	3050B	
280-13998-7	J1FK43	T	Solid	3050B	
280-13998-8	J1FK44	T	Solid	3050B	
280-13998-9	J1FK45	T	Solid	3050B	
280-13998-10	J1FK46	T	Solid	3050B	
280-13998-11	J1FK47	T	Solid	3050B	
280-13998-12	J1FK48	T	Solid	3050B	
280-13998-13	J1FK49	T	Solid	3050B	
280-13998-14EB	J1FK50	T	Solid	3050B	
Prep Batch: 280-59951					
LCS 280-59951/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-59951/1-A	Method Blank	T	Solid	7471A	
280-13998-1	J1FK37	T	Solid	7471A	
280-13998-2	J1FK38	T	Solid	7471A	
280-13998-3	J1FK39	T	Solid	7471A	
280-13998-4	J1FK40	T	Solid	7471A	
280-13998-5	J1FK41	T	Solid	7471A	
280-13998-6	J1FK42	T	Solid	7471A	
280-13998-7	J1FK43	T	Solid	7471A	
280-13998-8	J1FK44	T	Solid	7471A	
280-13998-9	J1FK45	T	Solid	7471A	
280-13998-9DU	Duplicate	T	Solid	7471A	
280-13998-9MS	Matrix Spike	T	Solid	7471A	
280-13998-10	J1FK46	T	Solid	7471A	
280-13998-11	J1FK47	T	Solid	7471A	
280-13998-12	J1FK48	T	Solid	7471A	
280-13998-13	J1FK49	T	Solid	7471A	
280-13998-14EB	J1FK50	T	Solid	7471A	

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-60068					
LCS 280-59829/2-A	Lab Control Sample	T	Solid	6010B	280-59829
MB 280-59829/1-A	Method Blank	T	Solid	6010B	280-59829
280-13998-1	J1FK37	T	Solid	6010B	280-59829
280-13998-1DU	Duplicate	T	Solid	6010B	280-59829
280-13998-1MS	Matrix Spike	T	Solid	6010B	280-59829
280-13998-2	J1FK38	T	Solid	6010B	280-59829
280-13998-3	J1FK39	T	Solid	6010B	280-59829
280-13998-4	J1FK40	T	Solid	6010B	280-59829
280-13998-5	J1FK41	T	Solid	6010B	280-59829
280-13998-6	J1FK42	T	Solid	6010B	280-59829
280-13998-7	J1FK43	T	Solid	6010B	280-59829
280-13998-8	J1FK44	T	Solid	6010B	280-59829
280-13998-9	J1FK45	T	Solid	6010B	280-59829
280-13998-10	J1FK46	T	Solid	6010B	280-59829
280-13998-11	J1FK47	T	Solid	6010B	280-59829
280-13998-12	J1FK48	T	Solid	6010B	280-59829
280-13998-13	J1FK49	T	Solid	6010B	280-59829
280-13998-14EB	J1FK50	T	Solid	6010B	280-59829
Analysis Batch:280-60271					
LCS 280-59951/2-A	Lab Control Sample	T	Solid	7471A	280-59951
MB 280-59951/1-A	Method Blank	T	Solid	7471A	280-59951
280-13998-1	J1FK37	T	Solid	7471A	280-59951
280-13998-2	J1FK38	T	Solid	7471A	280-59951
280-13998-3	J1FK39	T	Solid	7471A	280-59951
280-13998-4	J1FK40	T	Solid	7471A	280-59951
280-13998-5	J1FK41	T	Solid	7471A	280-59951
280-13998-6	J1FK42	T	Solid	7471A	280-59951
280-13998-7	J1FK43	T	Solid	7471A	280-59951
280-13998-8	J1FK44	T	Solid	7471A	280-59951
280-13998-9	J1FK45	T	Solid	7471A	280-59951
280-13998-9DU	Duplicate	T	Solid	7471A	280-59951
280-13998-9MS	Matrix Spike	T	Solid	7471A	280-59951
280-13998-10	J1FK46	T	Solid	7471A	280-59951
280-13998-11	J1FK47	T	Solid	7471A	280-59951
280-13998-12	J1FK48	T	Solid	7471A	280-59951
280-13998-13	J1FK49	T	Solid	7471A	280-59951
280-13998-14EB	J1FK50	T	Solid	7471A	280-59951

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-59794					
280-13998-1	J1FK37	T	Solid	D-2216	
280-13998-1DU	Duplicate	T	Solid	D-2216	
280-13998-2	J1FK38	T	Solid	D-2216	
280-13998-3	J1FK39	T	Solid	D-2216	
280-13998-4	J1FK40	T	Solid	D-2216	
280-13998-5	J1FK41	T	Solid	D-2216	
280-13998-6	J1FK42	T	Solid	D-2216	
280-13998-7	J1FK43	T	Solid	D-2216	
280-13998-8	J1FK44	T	Solid	D-2216	
280-13998-9	J1FK45	T	Solid	D-2216	
280-13998-10	J1FK46	T	Solid	D-2216	
280-13998-11	J1FK47	T	Solid	D-2216	
280-13998-12	J1FK48	T	Solid	D-2216	
280-13998-13	J1FK49	T	Solid	D-2216	
280-13998-14EB	J1FK50	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Method Blank - Batch: 280-59843

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-59843/1-A	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-59843	Lab File ID:	D2770.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.9 g
Analysis Date:	03/30/2011 1750	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.7	U	9.7	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	81.0	J	43	310
4-Bromophenyl phenyl ether	18	U	18	310
Butyl benzyl phthalate	40	U	40	310
Carbazole	34	U	34	310
4-Chloroaniline	77	U	77	310
4-Chloro-3-methylphenol	62	U	62	310
2-Chloronaphthalene	9.4	U	9.4	310
2-Chlorophenol	20	U	20	310
4-Chlorophenyl phenyl ether	20	U	20	310
Chrysene	25	U	25	310
Dibenz(a,h)anthracene	18	U	18	310
Dibenzofuran	19	U	19	310
1,2-Dichlorobenzene	21	U	21	310
1,3-Dichlorobenzene	11	U	11	310
1,4-Dichlorobenzene	13	U	13	310
3,3'-Dichlorobenzidine	85	U	85	620
2,4-Dichlorophenol	9.4	U	9.4	310
Diethyl phthalate	24	U	24	310
2,4-Dimethylphenol	62	U	62	310
Dimethyl phthalate	22	U	22	310
Di-n-butyl phthalate	27	U	27	310
4,6-Dinitro-2-methylphenol	310	U	310	620
2,4-Dinitrophenol	310	U	310	780
2,4-Dinitrotoluene	62	U	62	310
2,6-Dinitrotoluene	26	U	26	310
Di-n-octyl phthalate	14	U	14	310
Fluoranthene	34	U	34	310
Fluorene	17	U	17	310
Hexachlorobenzene	27	U	27	310
Hexachlorobutadiene	9.4	U	9.4	310
Hexachlorocyclopentadiene	47	U	47	310
Hexachloroethane	20	U	20	310
Indeno[1,2,3-cd]pyrene	21	U	21	310
Isophorone	16	U	16	310

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Method Blank - Batch: 280-59843

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-59843/1-A	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-59843	Lab File ID:	D2770.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.9 g
Analysis Date:	03/30/2011 1750	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	18	U	18	310
2-Methylphenol	12	U	12	310
3 & 4 Methylphenol	31	U	31	310
Naphthalene	29	U	29	310
2-Nitroaniline	47	U	47	310
3-Nitroaniline	69	U	69	310
4-Nitroaniline	68	U	68	310
Nitrobenzene	21	U	21	310
2-Nitrophenol	9.4	U	9.4	310
4-Nitrophenol	91	U	91	620
N-Nitrosodi-n-propylamine	29	U	29	310
N-Nitrosodiphenylamine	20	U	20	310
Pentachlorophenol	310	U	310	620
Phenanthrene	16	U	16	310
Phenol	17	U	17	310
Pyrene	11	U	11	310
1,2,4-Trichlorobenzene	26	U	26	310
2,4,5-Trichlorophenol	9.4	U	9.4	310
2,4,6-Trichlorophenol	9.4	U	9.4	310

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	74	50 - 120
2-Fluorophenol	79	53 - 120
Nitrobenzene-d5	66	50 - 120
Phenol-d5	78	52 - 120
Terphenyl-d14	108	55 - 120
2,4,6-Tribromophenol	81	51 - 120

Method Blank TICs- Batch: 280-59843

Cas Number	Analyte	RT	Est. Result	Qual
2216-30-0	Heptane, 2,5-dimethyl-	2.42	168	J N
	Unknown	2.32	147	J N
	Unknown	2.49	3010	J N

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Lab Control Sample - Batch: 280-59843

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-59843/2-A	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-59843	Lab File ID:	D2757.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 1356	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2650	2000	75	52 - 120	
Anthracene	2650	2340	88	57 - 120	
Carbazole	2650	2390	90	54 - 120	
4-Chloro-3-methylphenol	2650	2040	77	57 - 120	
2-Chlorophenol	2650	1920	72	53 - 120	
1,4-Dichlorobenzene	2650	1780	67	46 - 120	
2,4-Dinitrotoluene	2650	2330	88	53 - 120	
2-Methylnaphthalene	2650	1930	73	55 - 120	
2-Methylphenol	2650	1930	73	51 - 120	
4-Nitrophenol	2650	2360	89	41 - 120	
N-Nitrosodi-n-propylamine	2650	1950	74	51 - 120	
Pentachlorophenol	2650	1990	75	30 - 120	
Phenol	2650	2000	75	54 - 120	
Pyrene	2650	2290	86	50 - 120	
1,2,4-Trichlorobenzene	2650	1720	65	50 - 120	
2,4,6-Trichlorophenol	2650	2040	77	50 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	80	50 - 120
2-Fluorophenol	80	53 - 120
Nitrobenzene-d5	74	50 - 120
Phenol-d5	79	52 - 120
Terphenyl-d14	93	55 - 120
2,4,6-Tribromophenol	90	51 - 120

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59843

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-13998-2	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-59843	Lab File ID:	D2758.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	03/30/2011 1414			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-13998-2	Analysis Batch:	280-60382	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-59843	Lab File ID:	D2759.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 1433			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1903			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	71	81	52 - 120	16	30		
Anthracene	85	92	57 - 120	11	30		
Carbazole	88	91	54 - 120	6	30		
4-Chloro-3-methylphenol	76	85	57 - 120	14	30		
2-Chlorophenol	62	82	53 - 120	31	30		*
1,4-Dichlorobenzene	57	73	46 - 120	28	30		
2,4-Dinitrotoluene	85	91	53 - 120	8	30		
2-Methylnaphthalene	61	79	55 - 120	28	30		
2-Methylphenol	62	84	51 - 120	32	30		*
4-Nitrophenol	86	92	41 - 120	9	30		
N-Nitrosodi-n-propylamine	63	86	51 - 120	32	30		*
Pentachlorophenol	76	82	30 - 120	9	30		
Phenol	65	85	54 - 120	29	30		
Pyrene	84	87	50 - 120	6	38		
1,2,4-Trichlorobenzene	56	71	50 - 120	25	30		
2,4,6-Trichlorophenol	73	84	50 - 120	17	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	69	86	50 - 120
2-Fluorophenol	67	87	53 - 120
Nitrobenzene-d5	61	78	50 - 120
Phenol-d5	69	90	52 - 120
Terphenyl-d14	92	94	55 - 120
2,4,6-Tribromophenol	91	92	51 - 120

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Method Blank - Batch: 280-59821

Method: 8081A
Preparation: 3550C

Lab Sample ID:	MB 280-59821/1-A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Client Matrix:	Solid	Prep Batch:	280-59821	Lab File ID:	051F5101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	03/31/2011 0426	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	03/29/2011 1535			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.54	U	0.54	1.7
4,4'-DDE	0.24	U	0.24	1.7
4,4'-DDT	0.58	U	0.58	1.7
Aldrin	0.25	U	0.25	1.6
alpha-BHC	0.21	U	0.21	1.6
beta-BHC	0.66	U	0.66	1.6
delta-BHC	0.40	U	0.40	1.6
gamma-BHC (Lindane)	0.46	U	0.46	1.6
Heptachlor	0.21	U	0.21	1.6
Heptachlor epoxide	0.42	U	0.42	1.6
Endosulfan I	0.17	U	0.17	1.6
Endosulfan II	0.28	U	0.28	1.7
Endosulfan sulfate	0.27	U	0.27	1.7
Endrin	0.30	U	0.30	1.7
Endrin aldehyde	0.17	U	0.17	1.7
Endrin ketone	0.48	U	0.48	1.7
gamma-Chlordane	0.26	U	0.26	1.7
Methoxychlor	0.45	U	0.45	3.3
alpha-Chlordane	0.32	U	0.32	1.7
Dieldrin	0.21	U	0.21	1.7
Toxaphene	16	U	16	160

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	88	59 - 115
Decachlorobiphenyl	95	63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Lab Control Sample - Batch: 280-59821

Method: 8081A
Preparation: 3550C

Lab Sample ID:	LCS 280-59821/2-A	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Client Matrix:	Solid	Prep Batch:	280-59821	Lab File ID:	032F3201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	03/30/2011 2258	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	03/29/2011 1535			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	16.2	15.2	94	57 - 118	
4,4'-DDE	16.2	14.6	90	61 - 115	
4,4'-DDT	16.2	14.5	90	53 - 125	
Aldrin	16.2	14.5	90	60 - 115	
alpha-BHC	16.2	14.7	91	54 - 115	
beta-BHC	16.2	14.5	89	58 - 115	
delta-BHC	16.2	14.5	90	62 - 115	
gamma-BHC (Lindane)	16.2	14.2	88	59 - 115	
Heptachlor	16.2	14.5	89	61 - 115	
Heptachlor epoxide	16.2	14.6	91	62 - 112	
Endosulfan I	16.2	14.6	90	55 - 115	
Endosulfan II	16.2	15.2	94	60 - 115	
Endosulfan sulfate	16.2	14.9	92	58 - 118	
Endrin	16.2	16.9	105	61 - 121	
Endrin aldehyde	16.2	12.3	76	54 - 115	
Endrin ketone	16.2	15.0	93	61 - 118	
gamma-Chlordane	16.2	15.4	95	60 - 115	
Methoxychlor	16.2	15.8	98	52 - 123	
alpha-Chlordane	16.2	14.4	89	60 - 115	
Dieldrin	16.2	15.1	94	63 - 117	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	87	59 - 115
Decachlorobiphenyl	95	63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59821

Method: 8081A
Preparation: 3550C

MS Lab Sample ID:	280-13998-1	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Client Matrix:	Solid	Prep Batch:	280-59821	Lab File ID:	034F3401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 2332			Final Weight/Volume:	10000 uL
Prep Date:	03/29/2011 1535			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-13998-1	Analysis Batch:	280-60153	Instrument ID:	GCS_C
Client Matrix:	Solid	Prep Batch:	280-59821	Lab File ID:	035F3501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	03/30/2011 2350			Final Weight/Volume:	10000 uL
Prep Date:	03/29/2011 1535			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,4'-DDD	92	84	57 - 118	11	20		
4,4'-DDE	90	90	61 - 115	2	15		
4,4'-DDT	91	64	53 - 125	38	29		*
Aldrin	90	92	60 - 115	1	50		
alpha-BHC	91	93	54 - 115	0	17		
beta-BHC	89	85	58 - 115	7	17		
delta-BHC	90	83	62 - 115	10	19		
gamma-BHC (Lindane)	89	91	59 - 115	1	24		
Heptachlor	90	88	61 - 115	4	18		
Heptachlor epoxide	92	92	62 - 112	2	18		
Endosulfan I	91	90	55 - 115	4	26		
Endosulfan II	95	28	60 - 115	111	20		N *
Endosulfan sulfate	90	12	58 - 118	153	22		N *
Endrin	108	99	61 - 121	12	30		
Endrin aldehyde	78	49	54 - 115	49	29		N *
Endrin ketone	85	54	61 - 118	46	20		N *
gamma-Chlordane	92	98	60 - 115	4	21		
Methoxychlor	87	8	52 - 123	168	23		J N *
alpha-Chlordane	90	92	60 - 115	0	18		
Dieldrin	93	93	63 - 117	2	25		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	85	88	59 - 115
Decachlorobiphenyl	89	92	63 - 124

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Method Blank - Batch: 280-59845

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-59845/1-A	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-59845	Lab File ID:	019F1901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.6 g
Analysis Date:	04/01/2011 2158	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	03/29/2011 1630			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.5	U	2.5	9.2
Aroclor 1221	7.4	U	7.4	15
Aroclor 1232	1.8	U	1.8	9.2
Aroclor 1242	4.3	U	4.3	9.2
Aroclor 1248	4.3	U	4.3	9.2
Aroclor 1254	2.4	U	2.4	9.2
Aroclor 1260	2.4	U	2.4	9.2

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	100	59 - 130
Tetrachloro-m-xylene	86	53 - 128

Lab Control Sample - Batch: 280-59845

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-59845/2-A	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-59845	Lab File ID:	020F2001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.4 g
Analysis Date:	04/01/2011 2220	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	03/29/2011 1630			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	30.9	30.7	99	54 - 132	
Aroclor 1260	30.9	31.5	102	62 - 129	

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

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59845

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-13998-5	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-59845	Lab File ID:	027F2701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	04/02/2011 0049			Final Weight/Volume:	5000 uL
Prep Date:	03/29/2011 1630			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-13998-5	Analysis Batch:	280-60487	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-59845	Lab File ID:	028F2801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	04/02/2011 0111			Final Weight/Volume:	5000 uL
Prep Date:	03/29/2011 1630			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	98	101	54 - 132	0	26		
Aroclor 1260	102	100	62 - 129	5	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	102	96	59 - 130
Tetrachloro-m-xylene	92	92	53 - 128

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Method Blank - Batch: 280-59865

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-59865/1-A	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-59865	Lab File ID:	056B0901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	03/30/2011 1728	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	960	U	960	3800
C10-C28	650	U	650	3800

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

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-59865

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-59865/2-A	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-59865	Lab File ID:	057B1001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.0 g
Analysis Date:	03/30/2011 1802	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-59865/3-A	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-59865	Lab File ID:	058B1101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.9 g
Analysis Date:	03/30/2011 1835	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	76	86	57 - 115	13	23		
C10-C28	76	86	53 - 115	13	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	74	77	49 - 115

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59865

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-13998-2	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-59865	Lab File ID:	061B1401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.8 g
Analysis Date:	03/30/2011 2015			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-13998-2	Analysis Batch:	280-60389	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-59865	Lab File ID:	062B1501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	33.0 g
Analysis Date:	03/30/2011 2049			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2144			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	83	88	57 - 115	6	23		
C10-C28	83	88	56 - 115	6	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	77	81	49 - 115

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Method Blank - Batch: 280-60452

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-60452/1-A	Analysis Batch:	280-60598	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-60452	Lab File ID:	004B0401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	04/04/2011 1030	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/01/2011 2220			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	990	U	990	4000
C10-C28	670	U	670	4000

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

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-60452

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-60452/2-A	Analysis Batch:	280-60598	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-60452	Lab File ID:	005B0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	04/04/2011 1058	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/01/2011 2220			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-60452/3-A	Analysis Batch:	280-60598	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-60452	Lab File ID:	006B0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	04/04/2011 1126	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/01/2011 2220			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	103	104	57 - 115	2	23		
C10-C28	103	103	53 - 115	3	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	90	85	49 - 115

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Method Blank - Batch: 280-59829

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-59829/1-A	Analysis Batch:	280-60068	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	03/30/2011 1837	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Arsenic	0.66	U	0.66	1.0
Barium	0.076	U	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.8	U	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.168	B	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Lab Control Sample - Batch: 280-59829

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-59829/2-A	Analysis Batch:	280-60068	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	03/30/2011 1840	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	188.4	94	82 - 116	
Antimony	50.0	42.94	86	82 - 110	
Arsenic	100	87.60	88	85 - 110	
Barium	200	202.1	101	87 - 112	
Beryllium	5.00	4.70	94	84 - 114	
Boron	100	89.91	90	81 - 110	
Cadmium	10.0	10.12	101	87 - 110	
Calcium	5000	4779	96	82 - 114	
Chromium	20.0	19.19	96	84 - 114	
Cobalt	50.0	46.87	94	87 - 110	
Copper	25.0	23.42	94	88 - 110	
Iron	100	92.57	93	87 - 120	
Lead	50.0	44.50	89	86 - 110	
Magnesium	5000	4706	94	90 - 110	
Manganese	50.0	49.67	99	88 - 110	
Molybdenum	100	96.46	96	86 - 110	
Nickel	50.0	47.14	94	87 - 110	
Potassium	5000	5060	101	89 - 110	
Selenium	200	186.2	93	83 - 110	
Silicon	1000	210.3	21	10 - 70	
Silver	5.00	5.19	104	87 - 114	
Sodium	5000	5058	101	90 - 112	
Vanadium	50.0	50.05	100	88 - 110	
Zinc	50.0	46.13	92	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Matrix Spike - Batch: 280-59829

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13998-1	Analysis Batch:	280-60068	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	03/30/2011 1849	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	9520		202	10390	429	50 - 200	4
Antimony	0.38	U	50.6	25.12	50	20 - 200	
Arsenic	3.5		101	83.00	79	76 - 111	
Barium	81.8		202	260.5	88	52 - 159	
Beryllium	0.13	B	5.06	4.41	85	72 - 105	
Boron	1.7	B	101	80.48	78	75 - 107	
Cadmium	0.087	B	10.1	9.21	90	40 - 130	
Calcium	4200		5060	8883	92	43 - 165	
Chromium	11.7		20.2	29.97	90	70 - 200	
Cobalt	8.6		50.6	50.14	82	72 - 106	
Copper	15.7		25.3	35.77	79	37 - 187	
Iron	21900		101	19540	-2292	70 - 200	4
Lead	4.0		50.6	42.30	76	70 - 200	
Magnesium	4380		5060	8602	83	64 - 145	
Manganese	352		50.6	361.4	18	40 - 200	4
Molybdenum	0.26	U	101	86.75	86	75 - 103	
Nickel	11.6		50.6	53.86	84	61 - 126	
Potassium	2040		5060	6628	91	56 - 172	
Selenium	0.87	U	202	172.6	85	76 - 104	
Silicon	445		1010	451.0	0.6	20 - 200	N
Silver	0.16	U	5.06	4.87	96	75 - 141	
Sodium	221		5060	5129	97	78 - 111	
Vanadium	51.0		50.6	94.18	85	50 - 169	
Zinc	41.9		50.6	78.09	71	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Duplicate - Batch: 280-59829

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13998-1	Analysis Batch:	280-60068	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59829	Lab File ID:	25A2033011.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	03/30/2011 1846	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	9520		10250	7	40	
Antimony	0.38	U	0.38	NC	40	U
Arsenic	3.5		3.43	2	30	
Barium	81.8		84.98	4	30	
Beryllium	0.13	B	0.165	27	30	B
Boron	1.7	B	1.64	0.8	30	B
Cadmium	0.087	B	0.0822	6	30	B
Calcium	4200		4173	0.7	30	
Chromium	11.7		12.38	6	40	
Cobalt	8.6		8.36	3	30	
Copper	15.7		15.80	0.8	30	
Iron	21900		21540	1	40	
Lead	4.0		4.37	9	40	
Magnesium	4380		4605	5	30	
Manganese	352		360.7	2	40	
Molybdenum	0.26	U	0.26	NC	30	U
Nickel	11.6		12.12	4	30	
Potassium	2040		2161	6	40	
Selenium	0.87	U	0.86	NC	30	U
Silicon	445		579.2	26	40	
Silver	0.16	U	0.16	NC	30	U
Sodium	221		238.6	8	30	
Vanadium	51.0		49.81	2	30	
Zinc	41.9		41.82	0.3	40	

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Method Blank - Batch: 280-59951

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-59951/1-A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 1923	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-59951

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-59951/2-A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 1929	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.457	110	87 - 111	

Matrix Spike - Batch: 280-59951

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13998-9	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.65 g
Analysis Date:	03/31/2011 1959	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0058	B	0.407	0.409	99	87 - 111	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Duplicate - Batch: 280-59951

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13998-9	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59951	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.63 g
Analysis Date:	03/31/2011 1957	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 1146				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0058	B	0.0056	NC	20	U

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13998-1
Sdg Number: JP0142

Duplicate - Batch: 280-59794

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-13998-1	Analysis Batch:	280-59794	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:	03/29/2011 1231	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	5.0	4.9	2	20	

2.5 °C
2.7
2.7

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-230	Page 1 of 3

Collector: J Kuepfer	Company Contact: D Woolery — Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8B (SRD 3/14/11) — Data Turnaround: ~~21 Days~~ 7 (SRD 3/14/11)
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 600-30 Area 1 Verification	SAF No.: RC-075	
Ice Chest No.: ERC-02-103	Field Logbook No.: EL-1607-09 — COA: R600302000	Method of Shipment: Fed Ex	
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver (TA 3/14/11)	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7945 8206 6099	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C					
Type of Container	G/P	G/P	G	aG	aG	aG					
No. of Container(s)	1	1	1	1	1	1					
Volume	60mL	60mL	120mL	125mL	120mL	125mL					
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196 (SRD 3/14/11)	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	Pesticides - 8081					
Sample No. / Matrix * / Sample Date / Sample Time											
J1FK37 / SOIL / 3/25/11 / 1210	✓		✓	✓	✓	✓					1
J1FK38 / SOIL / 3/25/11 / 1215	✓		✓	✓	✓	✓					2
J1FK39 / SOIL / 3/25/11 / 1305	✓		✓	✓	✓	✓					3
J1FK40 / SOIL / 3/25/11 / 1220	✓		✓	✓	✓	✓					4
J1FK41 / SOIL / 3/25/11 / 1225	✓		✓	✓	✓	✓					5

CHAIN OF POSSESSION 3/25/11

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	~~3/25/11~~ 3/25/11 1415	D Woolery	3/25/11 1415
D Woolery	3-28-11 0900	A. Freier	3-28-11 0900
A. Freier (WCH)	3-28-11 1100	Fed Ex	
			3/28/11 830

SPECIAL INSTRUCTIONS

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

REVIEWED BY JEB DATE 3-28-11

JP0142

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-230	Page 2 of 3

Collector J Kuepfer	Company Contact D Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location 600-30 Area 1 Verification		SAF No. RC-075
Ice Chest No. ERC-02-103	Field Logbook No. EL-1607-09	COA R600302000	Method of Shipment Fed Ex
Shipped To TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No. NA		Bill of Lading/Air Bill No. 7945 8206 6099

Price Code ~~8L~~ 8B

Data Turnaround ~~21~~ 7 Days

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C					
Type of Container	G/P	G/P	G	aG	aG	aG					
No. of Container(s)	1	1	1	1	1	1					
Volume	60mL	60mL	120mL	125mL	120mL	125mL					
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	Pesticides - 8081					

Sample No.	Matrix *	Sample Date	Sample Time										
J1FK42	SOIL	3/25/11	1240	✓		✓	✓	✓	✓				6
J1FK43	SOIL	3/25/11	1245	✓		✓	✓	✓	✓				7
J1FK44	SOIL	3/25/11	1250	✓		✓	✓	✓	✓				8
J1FK45	SOIL	3/25/11	1325	✓		✓	✓	✓	✓				9
J1FK46	SOIL	3/25/11	1320	✓		✓	✓	✓	✓				10

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	3/25/11 1415	D Woolery	3/25/11 1415
Relinquished By/Removed From	Date/Time 0900	Received By/Stored In	Date/Time 0900
Dubabey	3-28-11	A. Frerer	3-28-11
Relinquished By/Removed From LOCH	Date/Time 1100	Received By/Stored In	Date/Time
A. Frerer	3-28-11	Fed Ex	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time 3/28/11
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

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

REVIEWED BY JEB DATE 3-28-11

JP0142

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-230	Page 3 of 3

Collector J Kuepfer	Company Contact D Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH	Price Code ~~8L~~ 8B	Data Turnaround ~~21~~ 7 Days
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location 600-30 Area 1 Verification		SAF No. RC-075		
Ice Chest No. ERC-02-103	Field Logbook No. EL-1607-09	COA R600302000	Method of Shipment Fed Ex		
Shipped To TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No. NA		Bill of Lading/Air Bill No. 7945 8206 6099		

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C				
Type of Container	G/P	G/P	G	aG	aG	aG				
No. of Container(s)	1	1	1	1	1	1				
Volume	60mL	60mL	120mL	125mL	120mL	125mL				
SAMPLE ANALYSIS	See item (1) in Special Instructions	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	Pesticides - 8081				

Sample No.	Matrix *	Sample Date	Sample Time										
J1FK47	SOIL	3/25/11	1315	✓		✓	✓	✓	✓				11
J1FK48	SOIL	3/25/11	1310	✓		✓	✓	✓	✓				12
J1FK49	SOIL	3/25/11	1210	✓		✓	✓	✓	✓				D
J1FK50	SOIL	3/25/11	1205	✓		✓	✓						EB

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From	3/25/11 1415	D WOOLERY	3/25/11 1415
Relinquished By/Removed From D WOOLERY	0900 3-28-11	Received By/Stored In A. Freier	0900 3-28-11
Relinquished By/Removed From WCH A. Freier	1100 3-28-11	Received By/Stored In Fed Ex	
Relinquished By/Removed From		Received By/Stored In	7/29/11 830
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

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

REVIEWED BY JEB DATE 3-28-11

JP0142

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 <60107 Solid

Analytical Due:

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

Sample Check-in List

Date/Time Received: 3/29/11 - 830 **GM Screen Result** 12 **microR/hr**

Client: Washington Closure Hanford **SDG #:** JP0142 NA[ ] **SAF #:** RC-075 NA [ ]

Job Number: 13998 **Chain of Custody #** RC-075-230

Shipping Container ID: ERC-99-055 ERC-02-103 WCH-11-027 **Air Bill #** 7945 8206 6099

7945 8206 6114
7945 8206 6342

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: 2.9, 3.7, 2.7 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 14
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:** 3/29/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager [signature] Date 3/29/11

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: 28MAR11
ActWgt: 72.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

1 of 3

TUE - 29 MAR A1
PRIORITY OVERNIGHT

TRK# 7945 8206 6099
0201

MASTER

XH WHHA

80002
CO-US
DEN

50DG3/28A8/7EFB

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WCH.MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 28MAR11
ActWgt: 29.0 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 #

2 of 3

TUE - 29 MAR A1
PRIORITY OVERNIGHT

MPS# 7945 8206 6114
0263
Mstr# 7945 8206 6099 0201

XH WHHA

80002
CO-US
DEN

50DG3/26A8/7EF8

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

RICHLAND, WA 99354

FedEx. Express

J1115110225022 5

Ship Date: 28MAR11
ActWgt: 87.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

3 of 3

TUE - 29 MAR A1
PRIORITY OVERNIGHT

MPS# 7945 8206 6342
0263
Mstr# 7945 8206 6099 0201

XH WHHA

80002
CO-US
DEN

50DG3/26A8/7EFB

After printing this label:
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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.