0096290

SAF-RC-107
100-H Remaining Sites Burial Grounds – Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

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

RECEIVED
MAY 16 2011
EDMC

COMMENTS:

SDG JP0174 SAF-RC-107

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 600-151 Verification Sampling

Analytical Data Package Prepared For

Washington Closure Hanford

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 37 *Pages*

Report No.: 46478

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.
JP0174	RC-107	J1HK42	J1D280508-1	MHL9M1AA	9MHL9M10	1118334
		J1HK43	J1D280508-2	MHL9X1AA	9MHL9X10	1118334
		J1HK44	J1D280508-3	MHL921AA	9MHL9210	1118334
		J1HK45	J1D280508-4	MHL951AA	9MHL9510	1118334
		J1HK46	J1D280508-5	MHL981AA	9MHL9810	1118334
		J1HK47	J1D280508-6	MHMAC1AA	9MHMAC10	1118334
		J1HK48	J1D280508-7	MHMAH1AA	9MHMAH10	1118334
		J1HK49	J1D280508-8	MHMAL1AA	9MHMAL10	1118334
		J1HK50	J1D280508-9	MHMAR1AA	9MHMAR10	1118334
		J1HK51	J1D280508-10	MHMAW1AA	9MHMAW10	1118334
	RC-107	J1HK52	J1D280508-11	MHMA11AA	9MHMA110	1118334
		J1HK53	J1D280508-12	MHMA71AA	9MHMA710	1118334
		J1HK54	J1D280508-13	MHMA91AA	9MHMA910	1118334

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

May 5, 2011

Attention: Joan Kessner

SAF Number	:	RC-107
Date SDG Closed	:	April 28, 2011
Number of Samples	:	Thirteen (13)
Sample Type	:	Soil
SDG Number	:	JP0174
Data Deliverable	:	7 Day Summary

CASE NARRATIVE

I. Introduction

On April 28, 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
J1HK42	MHL9M	SOIL	4/28/11
J1HK43	MHL9X	SOIL	4/28/11
J1HK44	MHL92	SOIL	4/28/11
J1HK45	MHL95	SOIL	4/28/11
J1HK46	MHL98	SOIL	4/28/11
J1HK47	MHMAC	SOIL	4/28/11
J1HK48	MHMAH	SOIL	4/28/11
J1HK49	MHMAL	SOIL	4/28/11
J1HK50	MHMAR	SOIL	4/28/11
J1HK51	MHMAW	SOIL	4/28/11
J1HK52	MHMA1	SOIL	4/28/11
J1HK53	MHMA7	SOIL	4/28/11
J1HK54	MHMA9	SOIL	4/28/11

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:
The matrix spike recovered low at 52%. The post digestive matrix spike recovered at 85.4% and the insoluble matrix spike recovered at 96.4%. This implies strong reducing capacity in the sample, but not enough to exhaust the insoluble matrix spike. Except as noted, the LCS, batch blank, sample, sample duplicate (J1HK42) and sample matrix spike (J1HK42) results are within contractual requirements.

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

Reviewed and approved:

Rhonda Wagar
Project Manager

Drinking Water Method Cross References

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

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

Uncertainty Estimation

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

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

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

Report Definitions

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

Sample Results Summary

TestAmerica TARL

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

Date: 05-May-11

Report No. : 46478

SDG No: JP0174

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1118334	7196_CR6								
	J1HK42								
	MHL9M1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	MHL9M1AD	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	3.50E-01	0.6
	J1HK43								
	MHL9X1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK44								
	MHL921AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK45								
	MHL951AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK46								
	MHL981AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK47								
	MHMAC1AA	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01	1.55E-01	
	J1HK48								
	MHMAH1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK49								
	MHMAL1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1HK50								
	MHMAR1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK51								
	MHMAW1A	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1HK52								
	MHMA11AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK53								
	MHMA71AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK54								
	MHMA91AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	

No. of Results: 14

TestAmerica

rptSTLRchSaSummary2 V5.2.14
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: 05-May-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 46478

SDG No.: JP0174

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
7196_CR6								
1118334 MATRIX SPIKE, J1HK42								
MHL9M1AC	HEXCHROME	5.45E+00 +- 0.0E+00		mg/kg	N/A	52%	-0.5	1.54E-01
1118334 LCS,								
MHM001AC	HEXCHROME	1.76E+01 +- 0.0E+00		mg/kg	N/A	88%	-0.1	1.55E-01
1118334 BLANK QC,								
MHM001AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 3

TestAmerica

rptSTLRchQcSummary V5.2.14 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: 05-May-11

Lab Name:	TestAmerica	SDG:	JP0174	Collection Date:	4/27/2011 10:45:00 AM
Lot-Sample No.:	J1D280508-1	Report No. :	46478	Received Date:	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK42	COC No. :	RC-107-070	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: 1118334	7196_CR6			Work Order:	MHL9M1AA		Report DB ID:	9MHL9M10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	5/5/11 08:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.14 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: 05-May-11

Lab Name:	TestAmerica	SDG:	JP0174	Collection Date:	4/27/2011 10:40:00 AM
Lot-Sample No.:	J1D280508-2	Report No. :	46478	Received Date:	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK43	COC No. :	RC-107-070	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: 1118334	7196_CR6			Work Order:	MHL9X1AA		Report DB ID:	9MHL9X10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/5/11 08:00 a		2.5	
							1.55E-01	*N/A*			9	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.14 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: 05-May-11

Lab Name:	TestAmerica	**SDG:**	JP0174	**Collection Date:**	4/27/2011 10:35:00 AM
Lot-Sample No.:	J1D280508-3	**Report No. :**	46478	**Received Date:**	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK44	**COC No. :**	RC-107-070	**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: 1118334	7196_CR6			**Work Order:** MHL921AA			**Report DB ID:** 9MHL9210					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/5/11 08:00 a		2.5	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.14 A2002

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

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 05-May-11

Lab Name:	TestAmerica	**SDG:**	JP0174	**Collection Date:**	4/27/2011 10:30:00 AM
Lot-Sample No.:	J1D280508-4	**Report No. :**	46478	**Received Date:**	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK45	**COC No. :**	RC-107-070	**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: 1118334	7196_CR6			**Work Order:** MHL951AA			**Report DB ID:** 9MHL9510					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/5/11 08:00 a		2.5	
							1.55E-01	*N/A*			9	

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

TestAmerica
rptSTLRchSample
V5.2.14 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: 05-May-11

Lab Name:	TestAmerica	SDG:	JP0174	Collection Date:	4/27/2011 10:05:00 AM
Lot-Sample No.:	J1D280508-5	Report No. :	46478	Received Date:	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK46	COC No. :	RC-107-070	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: 1118334	7196_CR6			Work Order:	MHL981AA		Report DB ID:	9MHL9810				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/5/11 08:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.14 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: 05-May-11

Lab Name:	TestAmerica	**SDG:**	JP0174	**Collection Date:**	4/27/2011 9:20:00 AM
Lot-Sample No.:	J1D280508-6	**Report No. :**	46478	**Received Date:**	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK47	**COC No. :**	RC-107-070	**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: 1118334	7196_CR6			**Work Order:**	MHMAC1AA		**Report DB ID:**	9MHMAC10				
HEXCHROME	***1.53E-01***	U		0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	5/5/11 08:00 a		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: 05-May-11

Lab Name:	TestAmerica	**SDG:**	JP0174	**Collection Date:**	4/27/2011 9:45:00 AM
Lot-Sample No.:	J1D280508-7	**Report No. :**	46478	**Received Date:**	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK48	**COC No. :**	RC-107-070	**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: 1118334	7196_CR6			**Work Order:**	MHMAH1AA		**Report DB ID:**	9MHMAH10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/5/11 08:00 a		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: 05-May-11

Lab Name:	TestAmerica	**SDG:**	JP0174	**Collection Date:**	4/27/2011 9:50:00 AM
Lot-Sample No.:	J1D280508-8	**Report No. :**	46478	**Received Date:**	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK49	**COC No. :**	RC-107-070	**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: 1118334	7196_CR6			**Work Order:** MHMAL1AA			**Report DB ID:** 9MHMAL10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	5/5/11 08:00 a		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: 05-May-11

Lab Name:	TestAmerica	SDG:	JP0174	Collection Date:	4/27/2011 9:10:00 AM
Lot-Sample No.:	J1D280508-9	Report No. :	46478	Received Date:	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK50	COC No. :	RC-107-070	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: 1118334	7196_CR6			Work Order:	MHMAR1AA		Report DB ID:	9MHMAR10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/5/11 08:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.14 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: 05-May-11

Lab Name:	TestAmerica	SDG:	JP0174	Collection Date:	4/27/2011 8:50:00 AM
Lot-Sample No.:	J1D280508-10	Report No. :	46478	Received Date:	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK51	COC No. :	RC-107-070	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: 1118334	7196_CR6			Work Order:	MHMAW1AA		Report DB ID:	9MHMAW10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	5/5/11 08:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.14 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: 05-May-11

Lab Name:	TestAmerica	**SDG:**	JP0174	**Collection Date:**	4/27/2011 8:40:00 AM
Lot-Sample No.:	J1D280508-11	**Report No. :**	46478	**Received Date:**	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK52	**COC No. :**	RC-107-070	**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: 1118334	7196_CR6			**Work Order:** MHMA11AA			**Report DB ID:** 9MHMA110					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/5/11 08:00 a		2.5	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.14 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: 05-May-11

Lab Name:	TestAmerica	SDG:	JP0174	Collection Date:	4/27/2011 8:25:00 AM
Lot-Sample No.:	J1D280508-12	Report No. :	46478	Received Date:	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK53	COC No. :	RC-107-070	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: 1118334	7196_CR6			Work Order: MHMA71AA			Report DB ID: 9MHMA710					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/5/11 08:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.14 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: 05-May-11

Lab Name:	TestAmerica	**SDG:**	JP0174	**Collection Date:**	4/27/2011 9:20:00 AM
Lot-Sample No.:	J1D280508-13	**Report No. :**	46478	**Received Date:**	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK54	**COC No. :**	RC-107-070	**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: 1118334	7196_CR6			**Work Order:** MHMA91AA			**Report DB ID:** 9MHMA910					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/5/11 08:00 a		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: 05-May-11

Lab Name:	TestAmerica	**SDG:**	JP0174	**Collection Date:**	4/27/2011 9:20:00 AM
Lot-Sample No.:	J1D280508-13	**Report No. :**	46478	**Received Date:**	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK54	**COC No. :**	RC-107-070	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

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

TestAmerica
rptSTLRchSample
V5.2.14 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: 05-May-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0174	**Collection Date:**	4/27/2011 10:45:00 AM
Lot-Sample No.:	J1D280508-1	**Report No. :**	46478	**Received Date:**	4/28/2011 11:00:00 AM
Client Sample ID:	J1HK42	**COC No. :**	RC-107-070	**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: 1118334	7196_CR6			**Work Order:** MHL9M1AD		**Report DB ID:** MHL9M1ER			**Orig Sa DB ID:** 9MHL9M10			
HEXCHROME	1.54E-01	U		0.0E+00	1.54E-01	mg/kg	N/A	(1.)	5/5/11 08:00 a		2.5	
	1.55E-01	U	**RPD 0.6**			3.50E-01		N/A			g	

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

TestAmerica
rptSTLRchDupV5.2
.14 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: 05-May-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0174

Report No. : 46478

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: 1118334	7196_CR6			**Work Order:**	MHM001AA		**Report DB ID:**	MHM001AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	5/5/11 08:00 a		2.5	
						1.55E-01		N/A			g	

No. of Results: 1 Comments:

TestAmerica Laboratories, Inc.

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TestAmerica

rptSTLRchBlank
V5.2.14 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: 05-May-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0174

Report No. : 46478

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: 1118334	7196_CR6			Work Order:	MHM001AC		Report DB ID:	MHM001AS					
HEXCHROME	1.76E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		88%	5/5/11 08:00 a	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
V5.2.14 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 05-May-11

Lab Name: TestAmerica SDG: JP0174

Lot-Sample No.: J1D280508-1, J1HK42 Report No. : 46478 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: 1118334	Work Order: MHL9M1AC			Report DB ID: MHL9M1CW			Orig Sa DB ID: 9MHL9M10					
HEXCHROME	5.45E+00			0.0E+00	1.54E-01	mg/kg	N/A	51.99%	1.05E+01	5/5/11 08:00 a	2.5	7196_CR6
	1.55E-01										g	

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.14 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): 1118334

Lab Sample Numbers or SDG: **JP0174**

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?				✓
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?			✓	✓
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	✓
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	✓

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" response: The MS recovered low at 52%. The insoluble MS recovered within limits at 96.4%. PDMS recovered at 85.4%.

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

Analyst: H.Rahavi Date: 5/5/2011

Second-Level Review: Date: 5/5/2011

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-18315**
NCM Initiated By: Hooshang Rahavi
Date Opened: 05/05/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Classical Chemistry
Tests: 7196A
Lot #'s (Sample #'s): J1D280000 (334), J1D280508 (1,10,11,12,13,2,3,4,5,6,7,8,9),
QC Batches: 1118334,

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

Problem Description / Root Cause

Name	Date	Description
Hooshang Rahavi	05/05/2011	The MS recovered low at 85.4%. The insoluble MS recovered within limits at 96.4%. PDMS recovered at 85.4%. Suspect reducing capacity in the sample, but not enough to exhaust the more copious insoluble MS.
Diana Petty	05/05/2011	MS recovery is 52% instead of the reported 85.4%

Corrective Action

Name	Date	Corrective Action
Hooshang Rahavi	05/05/2011	Report data
Diana Petty	05/05/2011	

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: 5/5/2011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-070	Page 1 of 4

Collector: M. Blankenship / K Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L, 8B	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling		SAF No.: RC-107
Ice Chest No.: NA	Field Logbook No.: EL 1627-05	COA: 0601512000	Method of Shipment: Government Vehicle/FedEx Hand-Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Lot# J10280508
SDG# JP0174
Due 5.5.11

Special Handling and/or Storage

Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG			
No. of Container(s)	1	1	1	5	1	1	1			
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
~~J1HK38~~	~~SOIL~~											
~~J1HK39~~	~~SOIL~~											
~~J1HK40~~	~~SOIL~~											
~~J1HK41~~	~~SOIL~~											
J1HK42	SOIL	4/27/11	1045		X		MHL9M					

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kevin Lucas	4-27-11 1500	JV Fullmer	4/27/11 1500
JV Fullmer	4/27/11 1630	J.E. Beckel	1630 4-27-11
J.E. Beckel WCH	4-28-11 1100	TALL Cameron Krupa	1100 4-28-11

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)

REVIEWED BY AJ
DATE 4-28-11

JP0174

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

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-070	Page 2 of 4

Collector M Blankenship / K Lucas	**Company Contact** Joan Kessner	**Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH
Price Code 8L BB	**Data Turnaround** 21 Days		
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	**Sampling Location** 600-151 Verification Sampling		**SAF No.** RC-107
Ice Chest No. NA	**Field Logbook No.** EL 1627-05	**COA** 0601512000	**Method of Shipment** Government Vehicle/FedEx Hand-Delivered
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.** NA		**Bill of Lading/Air Bill No.** NA

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Lot#JID280508
SDG# JP0174
Due 5-5-11

Special Handling and/or Storage

Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C				
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG				
No. of Container(s)	1	1	1	5	1	1	1				
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL				
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081				
Sample No. / Matrix * / Sample Date / Sample Time											
J1HK43 / SOIL / 4/27/11 / 1040		X			MHL9X						
J1HK44 / SOIL / 4/27/11 / 1035		X			MHL92						
J1HK45 / SOIL / 4/27/11 / 1030		X			MHL95						
J1HK46 / SOIL / 4/27/11 / 1005		X			MHL98						
J1HK47 / SOIL / 4/27/11 / 0920		X			MHMAC						

CHAIN OF POSSESSION

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K Lucas Kenneth Lucas	4-27-11 1500	JV Fuller	1500 4/27/11
JV Fuller	4/27/11 1630	J. E. Bechel	1630 4-27-11
J. E. Bechel	4-28-11 1100	(Camen) TALL Cameron Krouse	1100 4-28-11

Sign/Print Names

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)

REVIEWED BY AJ DATE 4-28-11

JP0174

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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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-070	Page 3 of 4

Collector: M Blankingship / K Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L, 8B	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling		SAF No.: RC-107
Ice Chest No.: N/A	Field Logbook No.: EL 1627-05	COA: 0601512000	Method of Shipment: Government Vehicle/FedEx Hand-Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Lot#J1D280508
SDG#JP0174
Due 5-5-11

Special Handling and/or Storage

Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C				
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG				
No. of Container(s)	1	1	1	5	1	1	1				
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL				
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081				
Sample No. / Matrix * / Sample Date / Sample Time											
J1HK48 / SOIL / 4/27/11 / 0945		X			MHMAH						
J1HK49 / SOIL / 4/27/11 / 0950		X			MHMAL						
J1HK50 / SOIL / 4/27/11 / 0910		X			MHMAR						
J1HK51 / SOIL / 4/27/11 / 0850		X			MHMAW						
J1HK52 / SOIL / 4/27/11 / 0840		X			MHMA1						

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K Lucas Kevin Lucas	4-27-11 1500	JV Fullmer	1500 4/27/11
JV Fullmer	4/27/11 1630	J. E. Bahl	1630 4-27-11
J. E. Bahl LCH	1100 4-28-11	TAR (Ann) Cameron Kroupa	1100 4-28-11

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)

REVIEWED BY
DATE 4-28-11

JP0174

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-107-070	Page 4 of 4

Collector: M Blantingship / K Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 81 / 88	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling		SAF No.: RC-107
Ice Chest No.: NA	Field Logbook No.: EL 1627-05	COA: 0601512000	Method of Shipment: Government Vehicle/FedEx Hand-Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Lot# JID280508
SDG#JP0174
Due 5.5.11

Special Handling and/or Storage

Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG			
No. of Container(s)	1	1	1	5	1	1	1			
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
J1HK53	SOIL	4/27/11	0825		X			MHMA7				
J1HK54	SOIL	4/27/11	0920		X			MHMA9				
~~J1HK55~~	~~SOIL~~											
~~J1HK56~~	~~SOIL~~											
J1HK57	SOIL											

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K Lucas Kenneth Lucas	4-27-11 1500	JV Fullmer	1500 4/27/11
JV Fullmer	4/27/11 1630	J.E. Beahl	1630 4-27-11
J.E. Beahl	4-28-11 1100	TALR Cameron Krank	1100 4-28-11

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)

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

REVIEWED BY AF DATE 4-28-11

JP0174

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: 4.28.11 1100 GM Screen Result (out) .2 (in) .5 Initials CK

Client: WCH SDG #: JP0174 NA [ ] SAF #: RC-107 NA [ ]

Work Order Number: JID280508 Chain of Custody # RC-107-070

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

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

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

Item 6 through 10 for samples. Initial appropriate response.

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

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

See other side for additional comments

Sample Custodian: [signature] Date: 4.28.11 1100

Client Informed on ___ by ___ Person contacted ___

[✓] No action necessary, process as is

Project Manager [signature] Date 4/28/11

LS-023, Rev. 12, 10/10

4/28/2011 3:29:54 PM

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 #:

AnalyDueDate: 05/05/2011

Sep1 DT/Tm Tech:

Batch: 1118334 SOIL mg/kg **PM, Quote: RW2, 27038**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 1118334 DWEA,

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:
1 MHL9M-1-AA J1D280508-1-SAMP 04/27/2011 10:45		2.5008 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
2 MHL9M-1-AC-S J1D280508-1-MS 04/27/2011 10:45		2.5063 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
3 MHL9M-1-AD-X J1D280508-1-DUP 04/27/2011 10:45		2.5079 Pbcr= 2.5063 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
4 MHL9X-1-AA J1D280508-2-SAMP 04/27/2011 10:40		2.5084 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
5 MHL92-1-AA J1D280508-3-SAMP 04/27/2011 10:35		2.5091 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
6 MHL95-1-AA J1D280508-4-SAMP 04/27/2011 10:30		2.5102 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
7 MHL98-1-AA J1D280508-5-SAMP 04/27/2011 10:05		2.5112 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

04/28/2011 3:29:54 PM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

Pipet #:

AnalyDueDate: 05/05/2011

Sep1 DT/Tm Tech:

Batch: 1118334 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 MHMAC-1-AA										
J1D280508-6-SAMP		2.5251								
04/27/2011 09:20		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
9 MHMAH-1-AA										
J1D280508-7-SAMP		2.5078								
04/27/2011 09:45		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
10 MHMAL-1-AA										
J1D280508-8-SAMP		2.5036								
04/27/2011 09:50		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
11 MHMAR-1-AA										
J1D280508-9-SAMP		2.5074								
04/27/2011 09:10		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
12 MHMAW-1-AA										
J1D280508-10-SAMP		2.5012								
04/27/2011 08:50		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
13 MHMA1-1-AA										
J1D280508-11-SAMP		2.5108								
04/27/2011 08:40		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
14 MHMA7-1-AA										
J1D280508-12-SAMP		2.5107								
04/27/2011 08:25		AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:

Testamerica Laboratories, Inc.

04/28/2011 3:29:54 PM

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: 05/05/2011

Batch: 1118334 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 MHMA9-1-AA J1D280508-13-SAMP 04/27/2011 09:20		2.5 l 12 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
16 MHM00-1-AA-B J1D280000-334-BLK 04/28/2011 15:29 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
17 MHM00-1-AC-C J1D280000-334-LCS 04/28/2011 15:29 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments:

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

MHL9M1AA-SAMP Constituent List:

MHL9M1AC-MS Constituent List:

MHM001AA-BLK:

MHM001AC-LCS:

MHL9M1AA-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MHL9M1AC-MS Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MHM001AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Sample Preparation/Analysis

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: 05/05/2011

Batch: 1118334 mg/kg
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 (24hr) On | Off Circle	CR Analyst, Init/Date	Comments:

HM001AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica

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ANALYTICAL REPORT

Job Number: 280-15202-1

SDG Number: JP0174

Job Description: SAF# RC-107

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

Attention: Joan H Kessner

RECEIVED
MAY 2011

Approved for release.
Kae E Yoder
Project Manager II
5/6/2011 1:22 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
05/06/2011

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.

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-15202-1

SDG #: JP0174
SAF#: RC-107

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

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1HK42	280-15202-1	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK43	280-15202-2	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK44	280-15202-3	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK45	280-15202-4	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK46	280-15202-5	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK47	280-15202-6	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK48	280-15202-7	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK49	280-15202-8	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK50	280-15202-9	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK51	280-15202-10	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK52	280-15202-11	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK53	280-15202-12	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK54	280-15202-13	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HKF6	280-15202-14	8260	8260B

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

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

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

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

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

RECEIPT
The samples were received on 4/29/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 4.7 C, 2.7 C, 3.6 C and 4.8 C.

Samples J1HK53 and J1HKF6, requesting 5035/8260 VOA analysis, were received at the laboratory after the recommended 48 hour sample holding time had expired. The client was notified on 5/2/2011.

GC/MS VOLATILES - SW846 8260B
The 5035 prep for samples J1HK47, J1HK50, J1HK51, J1HK52, J1HK53, J1HK54 and J1HKF6 were performed after the recommended 48 hour sample holding times had expired. The samples were received at the laboratory with insufficient time remaining for the laboratory to perform the prep within the holding times. The client instructed the laboratory to proceed with the requested analyses.

Surrogate 4-Bromofluorobenzene was recovered outside the control limits, biased high, in samples J1HK46 and J1HK50. This is an indicator that data may be biased high. As no detectable concentrations are present in the samples, corrective action is deemed unnecessary.

The MSD aliquot of the MS/MSD performed on sample J1HK50 exhibited percent recoveries outside the control limits, and the associated sample results have been flagged "T". The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8081A - PESTICIDEs

The LCS associated with batch 280-64896 exhibited the percent recovery outside the control limits for 4,4'-DDE at 57% (lower limit 61%), and associated sample results have been flagged "N". Although 4,4'-DDE was recovered outside current historical control limits, the recovery was within the allowed Marginal Exceedance control limits. This marginal exceedance has been determined to be sporadic, not systematic, and all other quality control acceptance criteria have been met; therefore, corrective action is deemed unnecessary.

The MS/MSD performed on sample J1HK43 exhibited percent recoveries outside the control limits for Endrin aldehyde, and the associated sample result has been flagged "N". The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The RPD between the primary and confirmation columns exceeded 40% for 4,4'-DDE in sample J1HK43. The lower of the two values has been reported, as matrix interference is evident. The result has been flagged with an "X".

A Continuing Calibration Verification (CCV) standard exhibited %Difference (%D) values >15%, biased low, for 4,4'-DDT (-24.5%) and Methoxychlor (-21.7%). The overall mean %D is ≤15%; therefore, method criteria have been met and corrective action is deemed unnecessary.

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8082 - PCBs

No anomalies were encountered.

GC SEMIVOLATILES - NWTPH-Dx - DRO

No anomalies were encountered.

HPLC - SW846 8310 - PAHs

In some cases, the RPD between the primary and confirmation columns exceeded 40%. The lower of the two values have been reported, as matrix interference is evident. Associated results have been flagged with an "X".

A Continuing Calibration Verification (CCV) standard exhibited the %Difference (%D) value >15%, biased low, for Benzo(a)pyrene (-15.7%). The overall mean %D is ≤15%; therefore, method criteria have been met and corrective action is deemed unnecessary.

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A

Serial dilution of a digestate in batch 280-64845 indicates that physical and chemical interferences are present for Cobalt and Lead. Results have been flagged with an "X".

Low levels of Barium, Calcium, Iron and Zinc are present in the method blank associated with batch 280-64845. Because the concentrations in the method blank are not present at levels greater than the reporting limits, corrective action is deemed unnecessary.

It can be noted that the sample amount was greater than four times the spike amount for Aluminum, Iron and Manganese in the Matrix Spike performed on sample J1HK42; therefore, control limits are not applicable.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	J	Indicates an Estimated Value for TICs
	T	MS, MSD: Recovery exceeds upper or lower control limits.
	N	Presumptive evidence of material.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	Surrogate exceeds the control limit
GC Semi VOA		
	U	Analyzed for but not detected.
	N	LCS, LCSD: Recovery exceeds upper or lower control limits.
	X	More than 40% difference between columns, lower result reported.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Lab Section	Qualifier	Description
General Chemistry		
	U	Analyzed for but not detected.
	M	Sample duplicate precision not met.
HPLC/IC		
	U	Analyzed for but not detected.
	X	More than 40% difference between columns, lower result reported.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Closed System Purge and Trap	TAL DEN		SW846 5035
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
PAHs (HPLC)	TAL DEN	SW846 8310	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
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: 280-15202-1
Sdg Number: JP0174

Method	Analyst	Analyst ID
SW846 8260B	Reinhardt, Jason	JR
SW846 8081A	Ream, Brian E	BER
SW846 8082	Jackson, Todd D	TDJ
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Bowen, Heidi E	HEB
SW846 7471A	Niman, Katie M	KMN
ASTM D-2216	Berry III, Paul B	PBB
SW846 8310	Hall, Koley J	KJH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-15202-1	J1HK42	Solid	04/27/2011 1045	04/29/2011 0930
280-15202-2	J1HK43	Solid	04/27/2011 1040	04/29/2011 0930
280-15202-3	J1HK44	Solid	04/27/2011 1035	04/29/2011 0930
280-15202-4	J1HK45	Solid	04/27/2011 1030	04/29/2011 0930
280-15202-5	J1HK46	Solid	04/27/2011 1005	04/29/2011 0930
280-15202-6	J1HK47	Solid	04/27/2011 0920	04/29/2011 0930
280-15202-7	J1HK48	Solid	04/27/2011 0945	04/29/2011 0930
280-15202-8	J1HK49	Solid	04/27/2011 0950	04/29/2011 0930
280-15202-9	J1HK50	Solid	04/27/2011 0910	04/29/2011 0930
280-15202-10	J1HK51	Solid	04/27/2011 0850	04/29/2011 0930
280-15202-11	J1HK52	Solid	04/27/2011 0840	04/29/2011 0930
280-15202-12	J1HK53	Solid	04/27/2011 0825	04/29/2011 0930
280-15202-13	J1HK54	Solid	04/27/2011 0920	04/29/2011 0930
280-15202-14	J1HKF6	Solid	04/27/2011 0815	04/29/2011 0930

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK42**

Lab Sample ID: 280-15202-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1045
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6269.D
Dilution:	1.0			Initial Weight/Volume:	3.361 g
Analysis Date:	04/30/2011 0042			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		8.3	U	8.3	31
Benzene		0.73	U	0.73	7.7
Bromodichloromethane		0.34	U	0.34	7.7
Bromoform		0.36	U	0.36	7.7
Bromomethane		0.77	U	0.77	15
2-Butanone (MEK)		2.8	U	2.8	15
Carbon disulfide		0.65	U	0.65	7.7
Carbon tetrachloride		0.98	U	0.98	7.7
Chlorobenzene		0.84	U	0.84	7.7
Dibromochloromethane		0.88	U	0.88	7.7
Chloroethane		1.4	U	1.4	15
Chloroform		0.45	U	0.45	7.7
Chloromethane		1.2	U	1.2	15
1,1-Dichloroethane		0.33	U	0.33	7.7
1,2-Dichloroethane		1.1	U	1.1	7.7
1,1-Dichloroethene		0.91	U	0.91	7.7
1,2-Dichloroethene, Total		0.60	U	0.60	7.7
1,2-Dichloropropane		0.85	U	0.85	7.7
cis-1,3-Dichloropropene		2.0	U	2.0	7.7
trans-1,3-Dichloropropene		1.0	U	1.0	7.7
Ethylbenzene		1.0	U	1.0	7.7
2-Hexanone		7.6	U	7.6	31
Methylene Chloride		1.2	U	1.2	7.7
4-Methyl-2-pentanone (MIBK)		6.7	U	6.7	15
Styrene		0.98	U	0.98	7.7
1,1,2,2-Tetrachloroethane		0.94	U	0.94	7.7
Tetrachloroethene		0.91	U	0.91	7.7
Toluene		1.1	U	1.1	7.7
1,1,1-Trichloroethane		0.80	U	0.80	7.7
1,1,2-Trichloroethane		1.4	U	1.4	7.7
Trichloroethene		0.36	U	0.36	7.7
Vinyl chloride		2.1	U	2.1	7.7
Xylenes, Total		0.94	U	0.94	7.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		58 - 140
Toluene-d8 (Surr)	110		80 - 126
4-Bromofluorobenzene (Surr)	113		76 - 127
Dibromofluoromethane (Surr)	102		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK42**

Lab Sample ID: 280-15202-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1045
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6269.D
Dilution:	1.0			Initial Weight/Volume:	3.361 g
Analysis Date:	04/30/2011 0042			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK43**

Lab Sample ID: 280-15202-2
Client Matrix: Solid
% Moisture: 2.6

Date Sampled: 04/27/2011 1040
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6272.D
Dilution:	1.0			Initial Weight/Volume:	4.518 g
Analysis Date:	04/30/2011 0151			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.1	U	6.1	23
Benzene		0.53	U	0.53	5.7
Bromodichloromethane		0.25	U	0.25	5.7
Bromoform		0.26	U	0.26	5.7
Bromomethane		0.57	U	0.57	11
2-Butanone (MEK)		2.1	U	2.1	11
Carbon disulfide		0.48	U	0.48	5.7
Carbon tetrachloride		0.72	U	0.72	5.7
Chlorobenzene		0.61	U	0.61	5.7
Dibromochloromethane		0.65	U	0.65	5.7
Chloroethane		1.0	U	1.0	11
Chloroform		0.33	U	0.33	5.7
Chloromethane		0.88	U	0.88	11
1,1-Dichloroethane		0.24	U	0.24	5.7
1,2-Dichloroethane		0.80	U	0.80	5.7
1,1-Dichloroethene		0.67	U	0.67	5.7
1,2-Dichloroethene, Total		0.44	U	0.44	5.7
1,2-Dichloropropane		0.63	U	0.63	5.7
cis-1,3-Dichloropropene		1.5	U	1.5	5.7
trans-1,3-Dichloropropene		0.76	U	0.76	5.7
Ethylbenzene		0.76	U	0.76	5.7
2-Hexanone		5.6	U	5.6	23
Methylene Chloride		0.85	U	0.85	5.7
4-Methyl-2-pentanone (MIBK)		5.0	U	5.0	11
Styrene		0.72	U	0.72	5.7
1,1,2,2-Tetrachloroethane		0.69	U	0.69	5.7
Tetrachloroethene		0.67	U	0.67	5.7
Toluene		0.78	U	0.78	5.7
1,1,1-Trichloroethane		0.59	U	0.59	5.7
1,1,2-Trichloroethane		1.0	U	1.0	5.7
Trichloroethene		0.26	U	0.26	5.7
Vinyl chloride		1.5	U	1.5	5.7
Xylenes, Total		0.69	U	0.69	5.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		58 - 140
Toluene-d8 (Surr)	115		80 - 126
4-Bromofluorobenzene (Surr)	112		76 - 127
Dibromofluoromethane (Surr)	99		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK43**

Lab Sample ID: 280-15202-2
Client Matrix: Solid
% Moisture: 2.6

Date Sampled: 04/27/2011 1040
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6272.D
Dilution:	1.0			Initial Weight/Volume:	4.518 g
Analysis Date:	04/30/2011 0151			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK44**

Lab Sample ID: 280-15202-3
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 04/27/2011 1035
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6273.D
Dilution:	1.0			Initial Weight/Volume:	5.02 g
Analysis Date:	04/30/2011 0214			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.5	U	5.5	20
Benzene		0.48	U	0.48	5.1
Bromodichloromethane		0.23	U	0.23	5.1
Bromoform		0.24	U	0.24	5.1
Bromomethane		0.51	U	0.51	10
2-Butanone (MEK)		1.9	U	1.9	10
Carbon disulfide		0.43	U	0.43	5.1
Carbon tetrachloride		0.65	U	0.65	5.1
Chlorobenzene		0.55	U	0.55	5.1
Dibromochloromethane		0.58	U	0.58	5.1
Chloroethane		0.91	U	0.91	10
Chloroform		0.30	U	0.30	5.1
Chloromethane		0.79	U	0.79	10
1,1-Dichloroethane		0.22	U	0.22	5.1
1,2-Dichloroethane		0.72	U	0.72	5.1
1,1-Dichloroethene		0.60	U	0.60	5.1
1,2-Dichloroethene, Total		0.40	U	0.40	5.1
1,2-Dichloropropane		0.56	U	0.56	5.1
cis-1,3-Dichloropropene		1.3	U	1.3	5.1
trans-1,3-Dichloropropene		0.69	U	0.69	5.1
Ethylbenzene		0.69	U	0.69	5.1
2-Hexanone		5.0	U	5.0	20
Methylene Chloride		0.77	U	0.77	5.1
4-Methyl-2-pentanone (MIBK)		4.5	U	4.5	10
Styrene		0.65	U	0.65	5.1
1,1,2,2-Tetrachloroethane		0.62	U	0.62	5.1
Tetrachloroethene		0.60	U	0.60	5.1
Toluene		0.71	U	0.71	5.1
1,1,1-Trichloroethane		0.53	U	0.53	5.1
1,1,2-Trichloroethane		0.90	U	0.90	5.1
Trichloroethene		0.24	U	0.24	5.1
Vinyl chloride		1.4	U	1.4	5.1
Xylenes, Total		0.62	U	0.62	5.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		58 - 140
Toluene-d8 (Surr)	109		80 - 126
4-Bromofluorobenzene (Surr)	108		76 - 127
Dibromofluoromethane (Surr)	100		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK44**

Lab Sample ID: 280-15202-3
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 04/27/2011 1035
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6273.D
Dilution:	1.0			Initial Weight/Volume:	5.02 g
Analysis Date:	04/30/2011 0214			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK45**

Lab Sample ID: 280-15202-4
Client Matrix: Solid
% Moisture: 2.3

Date Sampled: 04/27/2011 1030
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6274.D
Dilution:	1.0			Initial Weight/Volume:	4.357 g
Analysis Date:	04/30/2011 0237			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.3	U	6.3	23
Benzene		0.55	U	0.55	5.9
Bromodichloromethane		0.26	U	0.26	5.9
Bromoform		0.27	U	0.27	5.9
Bromomethane		0.59	U	0.59	12
2-Butanone (MEK)		2.1	U	2.1	12
Carbon disulfide		0.49	U	0.49	5.9
Carbon tetrachloride		0.74	U	0.74	5.9
Chlorobenzene		0.63	U	0.63	5.9
Dibromochloromethane		0.67	U	0.67	5.9
Chloroethane		1.0	U	1.0	12
Chloroform		0.34	U	0.34	5.9
Chloromethane		0.90	U	0.90	12
1,1-Dichloroethane		0.25	U	0.25	5.9
1,2-Dichloroethane		0.82	U	0.82	5.9
1,1-Dichloroethene		0.69	U	0.69	5.9
1,2-Dichloroethene, Total		0.46	U	0.46	5.9
1,2-Dichloropropane		0.65	U	0.65	5.9
cis-1,3-Dichloropropene		1.5	U	1.5	5.9
trans-1,3-Dichloropropene		0.79	U	0.79	5.9
Ethylbenzene		0.79	U	0.79	5.9
2-Hexanone		5.7	U	5.7	23
Methylene Chloride		0.88	U	0.88	5.9
4-Methyl-2-pentanone (MIBK)		5.1	U	5.1	12
Styrene		0.74	U	0.74	5.9
1,1,2,2-Tetrachloroethane		0.72	U	0.72	5.9
Tetrachloroethene		0.69	U	0.69	5.9
Toluene		0.81	U	0.81	5.9
1,1,1-Trichloroethane		0.61	U	0.61	5.9
1,1,2-Trichloroethane		1.0	U	1.0	5.9
Trichloroethene		0.27	U	0.27	5.9
Vinyl chloride		1.6	U	1.6	5.9
Xylenes, Total		0.72	U	0.72	5.9

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		58 - 140
Toluene-d8 (Surr)	113		80 - 126
4-Bromofluorobenzene (Surr)	118		76 - 127
Dibromofluoromethane (Surr)	101		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK45**

Lab Sample ID: 280-15202-4
Client Matrix: Solid
% Moisture: 2.3

Date Sampled: 04/27/2011 1030
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6274.D
Dilution:	1.0			Initial Weight/Volume:	4.357 g
Analysis Date:	04/30/2011 0237			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK46**

Lab Sample ID: 280-15202-5
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1005
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65169	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6310.D
Dilution:	1.0			Initial Weight/Volume:	3.925 g
Analysis Date:	04/30/2011 2051			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		7.1	U	7.1	26
Benzene		0.62	U	0.62	6.6
Bromodichloromethane		0.29	U	0.29	6.6
Bromoform		0.30	U	0.30	6.6
Bromomethane		0.66	U	0.66	13
2-Butanone (MEK)		2.4	U	2.4	13
Carbon disulfide		0.56	U	0.56	6.6
Carbon tetrachloride		0.83	U	0.83	6.6
Chlorobenzene		0.72	U	0.72	6.6
Dibromochloromethane		0.76	U	0.76	6.6
Chloroethane		1.2	U	1.2	13
Chloroform		0.38	U	0.38	6.6
Chloromethane		1.0	U	1.0	13
1,1-Dichloroethane		0.28	U	0.28	6.6
1,2-Dichloroethane		0.93	U	0.93	6.6
1,1-Dichloroethene		0.78	U	0.78	6.6
1,2-Dichloroethene, Total		0.52	U	0.52	6.6
1,2-Dichloropropane		0.73	U	0.73	6.6
cis-1,3-Dichloropropene		1.7	U	1.7	6.6
trans-1,3-Dichloropropene		0.89	U	0.89	6.6
Ethylbenzene		0.89	U	0.89	6.6
2-Hexanone		6.5	U	6.5	26
Methylene Chloride		0.99	U	0.99	6.6
4-Methyl-2-pentanone (MIBK)		5.8	U	5.8	13
Styrene		0.83	U	0.83	6.6
1,1,2,2-Tetrachloroethane		0.81	U	0.81	6.6
Tetrachloroethene		0.78	U	0.78	6.6
Toluene		0.91	U	0.91	6.6
1,1,1-Trichloroethane		0.69	U	0.69	6.6
1,1,2-Trichloroethane		1.2	U	1.2	6.6
Trichloroethene		0.30	U	0.30	6.6
Vinyl chloride		1.8	U	1.8	6.6
Xylenes, Total		0.81	U	0.81	6.6

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		58 - 140
Toluene-d8 (Surr)	119		80 - 126
4-Bromofluorobenzene (Surr)	129	*	76 - 127
Dibromofluoromethane (Surr)	96		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK46**

Lab Sample ID: 280-15202-5
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1005
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65169	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6310.D
Dilution:	1.0			Initial Weight/Volume:	3.925 g
Analysis Date:	04/30/2011 2051			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK47**

Lab Sample ID: 280-15202-6
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65169	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6311.D
Dilution:	1.0			Initial Weight/Volume:	4.716 g
Analysis Date:	04/30/2011 2114			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		11	J	6.0	22
Benzene		0.52	U	0.52	5.5
Bromodichloromethane		0.24	U	0.24	5.5
Bromoform		0.25	U	0.25	5.5
Bromomethane		0.55	U	0.55	11
2-Butanone (MEK)		2.0	U	2.0	11
Carbon disulfide		0.46	U	0.46	5.5
Carbon tetrachloride		0.70	U	0.70	5.5
Chlorobenzene		0.60	U	0.60	5.5
Dibromochloromethane		0.63	U	0.63	5.5
Chloroethane		0.98	U	0.98	11
Chloroform		0.32	U	0.32	5.5
Chloromethane		0.85	U	0.85	11
1,1-Dichloroethane		0.23	U	0.23	5.5
1,2-Dichloroethane		0.77	U	0.77	5.5
1,1-Dichloroethene		0.65	U	0.65	5.5
1,2-Dichloroethene, Total		0.43	U	0.43	5.5
1,2-Dichloropropane		0.61	U	0.61	5.5
cis-1,3-Dichloropropene		1.4	U	1.4	5.5
trans-1,3-Dichloropropene		0.74	U	0.74	5.5
Ethylbenzene		0.74	U	0.74	5.5
2-Hexanone		5.4	U	5.4	22
Methylene Chloride		0.83	U	0.83	5.5
4-Methyl-2-pentanone (MIBK)		4.8	U	4.8	11
Styrene		0.70	U	0.70	5.5
1,1,2,2-Tetrachloroethane		0.67	U	0.67	5.5
Tetrachloroethene		0.65	U	0.65	5.5
Toluene		0.76	U	0.76	5.5
1,1,1-Trichloroethane		0.58	U	0.58	5.5
1,1,2-Trichloroethane		0.97	U	0.97	5.5
Trichloroethene		0.25	U	0.25	5.5
Vinyl chloride		1.5	U	1.5	5.5
Xylenes, Total		0.67	U	0.67	5.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	83		58 - 140
Toluene-d8 (Surr)	108		80 - 126
4-Bromofluorobenzene (Surr)	117		76 - 127
Dibromofluoromethane (Surr)	92		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK47**

Lab Sample ID: 280-15202-6
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65169	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6311.D
Dilution:	1.0			Initial Weight/Volume:	4.716 g
Analysis Date:	04/30/2011 2114			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK48**

Lab Sample ID: 280-15202-7
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 04/27/2011 0945
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6277.D
Dilution:	1.0			Initial Weight/Volume:	4.78 g
Analysis Date:	04/30/2011 0346			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.9	U	5.9	22
Benzene		0.51	U	0.51	5.5
Bromodichloromethane		0.24	U	0.24	5.5
Bromoform		0.25	U	0.25	5.5
Bromomethane		0.55	U	0.55	11
2-Butanone (MEK)		2.0	U	2.0	11
Carbon disulfide		0.46	U	0.46	5.5
Carbon tetrachloride		0.69	U	0.69	5.5
Chlorobenzene		0.59	U	0.59	5.5
Dibromochloromethane		0.62	U	0.62	5.5
Chloroethane		0.97	U	0.97	11
Chloroform		0.32	U	0.32	5.5
Chloromethane		0.84	U	0.84	11
1,1-Dichloroethane		0.23	U	0.23	5.5
1,2-Dichloroethane		0.76	U	0.76	5.5
1,1-Dichloroethene		0.64	U	0.64	5.5
1,2-Dichloroethene, Total		0.43	U	0.43	5.5
1,2-Dichloropropane		0.60	U	0.60	5.5
cis-1,3-Dichloropropene		1.4	U	1.4	5.5
trans-1,3-Dichloropropene		0.73	U	0.73	5.5
Ethylbenzene		0.73	U	0.73	5.5
2-Hexanone		5.3	U	5.3	22
Methylene Chloride		0.82	U	0.82	5.5
4-Methyl-2-pentanone (MIBK)		4.8	U	4.8	11
Styrene		0.69	U	0.69	5.5
1,1,2,2-Tetrachloroethane		0.67	U	0.67	5.5
Tetrachloroethene		0.64	U	0.64	5.5
Toluene		0.75	U	0.75	5.5
1,1,1-Trichloroethane		0.57	U	0.57	5.5
1,1,2-Trichloroethane		0.96	U	0.96	5.5
Trichloroethene		0.25	U	0.25	5.5
Vinyl chloride		1.5	U	1.5	5.5
Xylenes, Total		0.67	U	0.67	5.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		58 - 140
Toluene-d8 (Surr)	111		80 - 126
4-Bromofluorobenzene (Surr)	114		76 - 127
Dibromofluoromethane (Surr)	101		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK48**

Lab Sample ID: 280-15202-7
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 04/27/2011 0945
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6277.D
Dilution:	1.0			Initial Weight/Volume:	4.78 g
Analysis Date:	04/30/2011 0346			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK49**

Lab Sample ID: 280-15202-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 04/27/2011 0950
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6278.D
Dilution:	1.0			Initial Weight/Volume:	4.676 g
Analysis Date:	04/30/2011 0409			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.0	U	6.0	22
Benzene		0.52	U	0.52	5.6
Bromodichloromethane		0.24	U	0.24	5.6
Bromoform		0.26	U	0.26	5.6
Bromomethane		0.56	U	0.56	11
2-Butanone (MEK)		2.0	U	2.0	11
Carbon disulfide		0.47	U	0.47	5.6
Carbon tetrachloride		0.70	U	0.70	5.6
Chlorobenzene		0.60	U	0.60	5.6
Dibromochloromethane		0.63	U	0.63	5.6
Chloroethane		0.99	U	0.99	11
Chloroform		0.32	U	0.32	5.6
Chloromethane		0.86	U	0.86	11
1,1-Dichloroethane		0.23	U	0.23	5.6
1,2-Dichloroethane		0.78	U	0.78	5.6
1,1-Dichloroethene		0.66	U	0.66	5.6
1,2-Dichloroethene, Total		0.43	U	0.43	5.6
1,2-Dichloropropane		0.61	U	0.61	5.6
cis-1,3-Dichloropropene		1.4	U	1.4	5.6
trans-1,3-Dichloropropene		0.74	U	0.74	5.6
Ethylbenzene		0.74	U	0.74	5.6
2-Hexanone		5.4	U	5.4	22
Methylene Chloride		0.83	U	0.83	5.6
4-Methyl-2-pentanone (MIBK)		4.8	U	4.8	11
Styrene		0.70	U	0.70	5.6
1,1,2,2-Tetrachloroethane		0.68	U	0.68	5.6
Tetrachloroethene		0.66	U	0.66	5.6
Toluene		0.77	U	0.77	5.6
1,1,1-Trichloroethane		0.58	U	0.58	5.6
1,1,2-Trichloroethane		0.98	U	0.98	5.6
Trichloroethene		0.26	U	0.26	5.6
Vinyl chloride		1.5	U	1.5	5.6
Xylenes, Total		0.68	U	0.68	5.6

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		58 - 140
Toluene-d8 (Surr)	110		80 - 126
4-Bromofluorobenzene (Surr)	110		76 - 127
Dibromofluoromethane (Surr)	105		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK49**

Lab Sample ID: 280-15202-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 04/27/2011 0950
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6278.D
Dilution:	1.0			Initial Weight/Volume:	4.676 g
Analysis Date:	04/30/2011 0409			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK50**

Lab Sample ID: 280-15202-9
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 04/27/2011 0910
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65169	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6312.D
Dilution:	1.0			Initial Weight/Volume:	4.385 g
Analysis Date:	04/30/2011 2137			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.4	U	6.4	24
Benzene		0.56	U	0.56	6.0
Bromodichloromethane		0.26	U	0.26	6.0
Bromoform		0.27	U	0.27	6.0
Bromomethane		0.60	U	0.60	12
2-Butanone (MEK)		2.2	U	2.2	12
Carbon disulfide		0.50	U	0.50	6.0
Carbon tetrachloride		0.75	U	0.75	6.0
Chlorobenzene		0.64	U	0.64	6.0
Dibromochloromethane		0.68	U	0.68	6.0
Chloroethane		1.1	U	1.1	12
Chloroform		0.35	U	0.35	6.0
Chloromethane		0.92	U	0.92	12
1,1-Dichloroethane		0.25	U	0.25	6.0
1,2-Dichloroethane		0.83	U	0.83	6.0
1,1-Dichloroethene		0.70	U	0.70	6.0
1,2-Dichloroethene, Total		0.46	U	0.46	6.0
1,2-Dichloropropane		0.66	U	0.66	6.0
cis-1,3-Dichloropropene		1.5	U	1.5	6.0
trans-1,3-Dichloropropene		0.80	U	0.80	6.0
Ethylbenzene		0.80	U T	0.80	6.0
2-Hexanone		5.8	U	5.8	24
Methylene Chloride		0.89	U	0.89	6.0
4-Methyl-2-pentanone (MIBK)		5.2	U	5.2	12
Styrene		0.75	U	0.75	6.0
1,1,2,2-Tetrachloroethane		0.73	U	0.73	6.0
Tetrachloroethene		0.70	U	0.70	6.0
Toluene		0.82	U	0.82	6.0
1,1,1-Trichloroethane		0.62	U	0.62	6.0
1,1,2-Trichloroethane		1.0	U	1.0	6.0
Trichloroethene		0.27	U T	0.27	6.0
Vinyl chloride		1.6	U	1.6	6.0
Xylenes, Total		0.73	U	0.73	6.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		58 - 140
Toluene-d8 (Surr)	126		80 - 126
4-Bromofluorobenzene (Surr)	131	*	76 - 127
Dibromofluoromethane (Surr)	107		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK50**

Lab Sample ID: 280-15202-9
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 04/27/2011 0910
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65169	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6312.D
Dilution:	1.0			Initial Weight/Volume:	4.385 g
Analysis Date:	04/30/2011 2137			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK51**

Lab Sample ID: 280-15202-10
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/27/2011 0850
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6280.D
Dilution:	1.0			Initial Weight/Volume:	4.505 g
Analysis Date:	04/30/2011 0456			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.2	U	6.2	23
Benzene		0.54	U	0.54	5.7
Bromodichloromethane		0.25	U	0.25	5.7
Bromoform		0.26	U	0.26	5.7
Bromomethane		0.57	U	0.57	11
2-Butanone (MEK)		2.1	U	2.1	11
Carbon disulfide		0.48	U	0.48	5.7
Carbon tetrachloride		0.72	U	0.72	5.7
Chlorobenzene		0.62	U	0.62	5.7
Dibromochloromethane		0.65	U	0.65	5.7
Chloroethane		1.0	U	1.0	11
Chloroform		0.33	U	0.33	5.7
Chloromethane		0.88	U	0.88	11
1,1-Dichloroethane		0.24	U	0.24	5.7
1,2-Dichloroethane		0.80	U	0.80	5.7
1,1-Dichloroethene		0.67	U	0.67	5.7
1,2-Dichloroethene, Total		0.45	U	0.45	5.7
1,2-Dichloropropane		0.63	U	0.63	5.7
cis-1,3-Dichloropropene		1.5	U	1.5	5.7
trans-1,3-Dichloropropene		0.77	U	0.77	5.7
Ethylbenzene		0.77	U	0.77	5.7
2-Hexanone		5.6	U	5.6	23
Methylene Chloride		0.86	U	0.86	5.7
4-Methyl-2-pentanone (MIBK)		5.0	U	5.0	11
Styrene		0.72	U	0.72	5.7
1,1,2,2-Tetrachloroethane		0.70	U	0.70	5.7
Tetrachloroethene		0.67	U	0.67	5.7
Toluene		0.79	U	0.79	5.7
1,1,1-Trichloroethane		0.59	U	0.59	5.7
1,1,2-Trichloroethane		1.0	U	1.0	5.7
Trichloroethene		0.26	U	0.26	5.7
Vinyl chloride		1.5	U	1.5	5.7
Xylenes, Total		0.70	U	0.70	5.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		58 - 140
Toluene-d8 (Surr)	112		80 - 126
4-Bromofluorobenzene (Surr)	122		76 - 127
Dibromofluoromethane (Surr)	107		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK51**

Lab Sample ID: 280-15202-10
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/27/2011 0850
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6280.D
Dilution:	1.0			Initial Weight/Volume:	4.505 g
Analysis Date:	04/30/2011 0456			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK52**

Lab Sample ID: 280-15202-11
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 04/27/2011 0840
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6281.D
Dilution:	1.0			Initial Weight/Volume:	5.046 g
Analysis Date:	04/30/2011 0519			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.7	U	5.7	21
Benzene		0.50	U	0.50	5.3
Bromodichloromethane		0.23	U	0.23	5.3
Bromoform		0.24	U	0.24	5.3
Bromomethane		0.53	U	0.53	11
2-Butanone (MEK)		1.9	U	1.9	11
Carbon disulfide		0.45	U	0.45	5.3
Carbon tetrachloride		0.67	U	0.67	5.3
Chlorobenzene		0.57	U	0.57	5.3
Dibromochloromethane		0.61	U	0.61	5.3
Chloroethane		0.95	U	0.95	11
Chloroform		0.31	U	0.31	5.3
Chloromethane		0.82	U	0.82	11
1,1-Dichloroethane		0.22	U	0.22	5.3
1,2-Dichloroethane		0.74	U	0.74	5.3
1,1-Dichloroethene		0.63	U	0.63	5.3
1,2-Dichloroethene, Total		0.41	U	0.41	5.3
1,2-Dichloropropane		0.58	U	0.58	5.3
cis-1,3-Dichloropropene		1.4	U	1.4	5.3
trans-1,3-Dichloropropene		0.71	U	0.71	5.3
Ethylbenzene		0.71	U	0.71	5.3
2-Hexanone		5.2	U	5.2	21
Methylene Chloride		0.80	U	0.80	5.3
4-Methyl-2-pentanone (MIBK)		4.6	U	4.6	11
Styrene		0.67	U	0.67	5.3
1,1,2,2-Tetrachloroethane		0.65	U	0.65	5.3
Tetrachloroethene		0.63	U	0.63	5.3
Toluene		0.73	U	0.73	5.3
1,1,1-Trichloroethane		0.55	U	0.55	5.3
1,1,2-Trichloroethane		0.94	U	0.94	5.3
Trichloroethene		0.24	U	0.24	5.3
Vinyl chloride		1.4	U	1.4	5.3
Xylenes, Total		0.65	U	0.65	5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		58 - 140
Toluene-d8 (Surr)	110		80 - 126
4-Bromofluorobenzene (Surr)	109		76 - 127
Dibromofluoromethane (Surr)	104		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK52**

Lab Sample ID: 280-15202-11
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 04/27/2011 0840
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6281.D
Dilution:	1.0			Initial Weight/Volume:	5.046 g
Analysis Date:	04/30/2011 0519			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK53**

Lab Sample ID: 280-15202-12
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/27/2011 0825
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6282.D
Dilution:	1.0			Initial Weight/Volume:	4.962 g
Analysis Date:	04/30/2011 0542			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.7	U	5.7	21
Benzene		0.50	U	0.50	5.3
Bromodichloromethane		0.23	U	0.23	5.3
Bromoform		0.24	U	0.24	5.3
Bromomethane		0.53	U	0.53	11
2-Butanone (MEK)		1.9	U	1.9	11
Carbon disulfide		0.44	U	0.44	5.3
Carbon tetrachloride		0.66	U	0.66	5.3
Chlorobenzene		0.57	U	0.57	5.3
Dibromochloromethane		0.60	U	0.60	5.3
Chloroethane		0.94	U	0.94	11
Chloroform		0.31	U	0.31	5.3
Chloromethane		0.81	U	0.81	11
1,1-Dichloroethane		0.22	U	0.22	5.3
1,2-Dichloroethane		0.74	U	0.74	5.3
1,1-Dichloroethene		0.62	U	0.62	5.3
1,2-Dichloroethene, Total		0.41	U	0.41	5.3
1,2-Dichloropropane		0.58	U	0.58	5.3
cis-1,3-Dichloropropene		1.4	U	1.4	5.3
trans-1,3-Dichloropropene		0.71	U	0.71	5.3
Ethylbenzene		0.71	U	0.71	5.3
2-Hexanone		5.2	U	5.2	21
Methylene Chloride		0.79	U	0.79	5.3
4-Methyl-2-pentanone (MIBK)		4.6	U	4.6	11
Styrene		0.66	U	0.66	5.3
1,1,2,2-Tetrachloroethane		0.64	U	0.64	5.3
Tetrachloroethene		0.62	U	0.62	5.3
Toluene		0.73	U	0.73	5.3
1,1,1-Trichloroethane		0.55	U	0.55	5.3
1,1,2-Trichloroethane		0.93	U	0.93	5.3
Trichloroethene		0.24	U	0.24	5.3
Vinyl chloride		1.4	U	1.4	5.3
Xylenes, Total		0.64	U	0.64	5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		58 - 140
Toluene-d8 (Surr)	116		80 - 126
4-Bromofluorobenzene (Surr)	127		76 - 127
Dibromofluoromethane (Surr)	105		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK53**

Lab Sample ID: 280-15202-12
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/27/2011 0825
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6282.D
Dilution:	1.0			Initial Weight/Volume:	4.962 g
Analysis Date:	04/30/2011 0542			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK54**

Lab Sample ID: 280-15202-13
Client Matrix: Solid
% Moisture: 8.5

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6283.D
Dilution:	1.0			Initial Weight/Volume:	4.584 g
Analysis Date:	04/30/2011 0605			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		30		6.4	24
Benzene		0.56	U	0.56	6.0
Bromodichloromethane		0.26	U	0.26	6.0
Bromoform		0.27	U	0.27	6.0
Bromomethane		0.60	U	0.60	12
2-Butanone (MEK)		6.9	J	2.2	12
Carbon disulfide		0.50	U	0.50	6.0
Carbon tetrachloride		0.75	U	0.75	6.0
Chlorobenzene		0.64	U	0.64	6.0
Dibromochloromethane		0.68	U	0.68	6.0
Chloroethane		1.1	U	1.1	12
Chloroform		0.35	U	0.35	6.0
Chloromethane		0.92	U	0.92	12
1,1-Dichloroethane		0.25	U	0.25	6.0
1,2-Dichloroethane		0.83	U	0.83	6.0
1,1-Dichloroethene		0.70	U	0.70	6.0
1,2-Dichloroethene, Total		0.47	U	0.47	6.0
1,2-Dichloropropane		0.66	U	0.66	6.0
cis-1,3-Dichloropropene		1.5	U	1.5	6.0
trans-1,3-Dichloropropene		0.80	U	0.80	6.0
Ethylbenzene		0.80	U	0.80	6.0
2-Hexanone		5.8	U	5.8	24
Methylene Chloride		0.89	U	0.89	6.0
4-Methyl-2-pentanone (MIBK)		5.2	U	5.2	12
Styrene		0.75	U	0.75	6.0
1,1,2,2-Tetrachloroethane		0.73	U	0.73	6.0
Tetrachloroethene		0.70	U	0.70	6.0
Toluene		0.82	U	0.82	6.0
1,1,1-Trichloroethane		0.62	U	0.62	6.0
1,1,2-Trichloroethane		1.0	U	1.0	6.0
Trichloroethene		0.27	U	0.27	6.0
Vinyl chloride		1.6	U	1.6	6.0
Xylenes, Total		0.73	U	0.73	6.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		58 - 140
Toluene-d8 (Surr)	106		80 - 126
4-Bromofluorobenzene (Surr)	109		76 - 127
Dibromofluoromethane (Surr)	105		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK54**

Lab Sample ID: 280-15202-13
Client Matrix: Solid
% Moisture: 8.5

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6283.D
Dilution:	1.0			Initial Weight/Volume:	4.584 g
Analysis Date:	04/30/2011 0605			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HKF6**

Lab Sample ID: 280-15202-14
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 04/27/2011 0815
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65169	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6315.D
Dilution:	1.0			Initial Weight/Volume:	4.073 g
Analysis Date:	04/30/2011 2246			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		28		6.6	25
Benzene		0.58	U	0.58	6.1
Bromodichloromethane		0.27	U	0.27	6.1
Bromoform		0.28	U	0.28	6.1
Bromomethane		0.61	U	0.61	12
2-Butanone (MEK)		8.2	J	2.2	12
Carbon disulfide		0.52	U	0.52	6.1
Carbon tetrachloride		0.77	U	0.77	6.1
Chlorobenzene		0.66	U	0.66	6.1
Dibromochloromethane		0.70	U	0.70	6.1
Chloroethane		1.1	U	1.1	12
Chloroform		0.36	U	0.36	6.1
Chloromethane		0.95	U	0.95	12
1,1-Dichloroethane		0.26	U	0.26	6.1
1,2-Dichloroethane		0.86	U	0.86	6.1
1,1-Dichloroethene		0.72	U	0.72	6.1
1,2-Dichloroethene, Total		0.48	U	0.48	6.1
1,2-Dichloropropane		0.68	U	0.68	6.1
cis-1,3-Dichloropropene		1.6	U	1.6	6.1
trans-1,3-Dichloropropene		0.82	U	0.82	6.1
Ethylbenzene		0.82	U	0.82	6.1
2-Hexanone		6.0	U	6.0	25
Methylene Chloride		0.92	U	0.92	6.1
4-Methyl-2-pentanone (MIBK)		5.4	U	5.4	12
Styrene		0.77	U	0.77	6.1
1,1,2,2-Tetrachloroethane		0.75	U	0.75	6.1
Tetrachloroethene		0.72	U	0.72	6.1
Toluene		0.85	U	0.85	6.1
1,1,1-Trichloroethane		0.64	U	0.64	6.1
1,1,2-Trichloroethane		1.1	U	1.1	6.1
Trichloroethene		0.28	U	0.28	6.1
Vinyl chloride		1.6	U	1.6	6.1
Xylenes, Total		0.75	U	0.75	6.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		58 - 140
Toluene-d8 (Surr)	113		80 - 126
4-Bromofluorobenzene (Surr)	106		76 - 127
Dibromofluoromethane (Surr)	95		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HKF6**

Lab Sample ID: 280-15202-14
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 04/27/2011 0815
Date Received: 04/29/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65169	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64829	Lab File ID:	J6315.D
Dilution:	1.0			Initial Weight/Volume:	4.073 g
Analysis Date:	04/30/2011 2246			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.21	110	J N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK42**

Lab Sample ID: 280-15202-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1045
Date Received: 04/29/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-64896	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1621			Injection Volume:	1 uL
Prep Date:	04/29/2011 1732			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		0.47	J N	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	69		59 - 115
Decachlorobiphenyl	82		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK43**

Lab Sample ID: 280-15202-2
Client Matrix: Solid
% Moisture: 2.6

Date Sampled: 04/27/2011 1040
Date Received: 04/29/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-64896	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1637			Injection Volume:	1 uL
Prep Date:	04/29/2011 1732			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 N	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 N	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	93		59 - 115
Decachlorobiphenyl	99		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK44**

Lab Sample ID: 280-15202-3
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 04/27/2011 1035
Date Received: 04/29/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-64896	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1727			Injection Volume:	1 uL
Prep Date:	04/29/2011 1732			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 N	0.24	1.7
4,4'-DDT		0.60	U	0.60	1.7
Aldrin		0.25	U	0.25	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.67	U	0.67	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	3.3
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	98		59 - 115
Decachlorobiphenyl	100		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK45**

Lab Sample ID: 280-15202-4
Client Matrix: Solid
% Moisture: 2.3

Date Sampled: 04/27/2011 1030
Date Received: 04/29/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-64896	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1743			Injection Volume:	1 uL
Prep Date:	04/29/2011 1732			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.54	U	0.54	1.7
4,4'-DDE		0.23	U N	0.23	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		0.65	U	0.65	1.6
delta-BHC		0.39	U	0.39	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		0.44	U	0.44	3.2
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	68		59 - 115
Decachlorobiphenyl	84		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK46**

Lab Sample ID: 280-15202-5
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1005
Date Received: 04/29/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-64896	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1906			Injection Volume:	1 uL
Prep Date:	04/29/2011 1732			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 N	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		0.41	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		0.29	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		0.27	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	90		59 - 115
Decachlorobiphenyl	109		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK47**

Lab Sample ID: 280-15202-6
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-64896	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1922			Injection Volume:	1 uL
Prep Date:	04/29/2011 1732			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 N	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	94		59 - 115
Decachlorobiphenyl	111		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK48**

Lab Sample ID: 280-15202-7
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 04/27/2011 0945
Date Received: 04/29/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-64896	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1939			Injection Volume:	1 uL
Prep Date:	04/29/2011 1732			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 N	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	93		59 - 115
Decachlorobiphenyl	92		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK49**

Lab Sample ID: 280-15202-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 04/27/2011 0950
Date Received: 04/29/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-64896	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1955			Injection Volume:	1 uL
Prep Date:	04/29/2011 1732			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 N	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	93		59 - 115
Decachlorobiphenyl	98		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK50**

Lab Sample ID: 280-15202-9
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 04/27/2011 0910
Date Received: 04/29/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-64896	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 2012			Injection Volume:	1 uL
Prep Date:	04/29/2011 1732			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 N	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	94		59 - 115
Decachlorobiphenyl	119		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK51**

Lab Sample ID: 280-15202-10
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/27/2011 0850
Date Received: 04/29/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-64896	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 2028			Injection Volume:	1 uL
Prep Date:	04/29/2011 1732			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 N	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	80		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK52**

Lab Sample ID: 280-15202-11
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 04/27/2011 0840
Date Received: 04/29/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-64896	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 2045			Injection Volume:	1 uL
Prep Date:	04/29/2011 1732			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 N	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	66		59 - 115
Decachlorobiphenyl	89		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK53**

Lab Sample ID: 280-15202-12
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/27/2011 0825
Date Received: 04/29/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-64896	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 2101			Injection Volume:	1 uL
Prep Date:	04/29/2011 1732			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 N	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	90		59 - 115
Decachlorobiphenyl	105		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK54**

Lab Sample ID: 280-15202-13
Client Matrix: Solid
% Moisture: 8.5

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-64896	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 2118			Injection Volume:	1 uL
Prep Date:	04/29/2011 1732			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.59	U	0.59	1.8
4,4'-DDE		0.33	J X N	0.26	1.8
4,4'-DDT		0.64	U	0.64	1.8
Aldrin		0.27	U	0.27	1.8
alpha-BHC		0.23	U	0.23	1.8
beta-BHC		0.72	U	0.72	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		0.19	U	0.19	1.8
Endrin ketone		0.53	U	0.53	1.8
gamma-Chlordane		0.29	U	0.29	1.8
Methoxychlor		0.49	U	0.49	3.6
alpha-Chlordane		0.35	U	0.35	1.8
Dieldrin		0.23	U	0.23	1.8
Toxaphene		17	U	17	180

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	94		59 - 115
Decachlorobiphenyl	108		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK42**

Lab Sample ID: 280-15202-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1045
Date Received: 04/29/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64844	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 1540			Injection Volume:	1 uL
Prep Date:	04/29/2011 1347			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	84		59 - 130
Tetrachloro-m-xylene	98		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK43**

Lab Sample ID: 280-15202-2
Client Matrix: Solid
% Moisture: 2.6

Date Sampled: 04/27/2011 1040
Date Received: 04/29/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64844	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 1716			Injection Volume:	1 uL
Prep Date:	04/29/2011 1347			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	88		59 - 130
Tetrachloro-m-xylene	99		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK44**

Lab Sample ID: 280-15202-3
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 04/27/2011 1035
Date Received: 04/29/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64844	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 1748			Injection Volume:	1 uL
Prep Date:	04/29/2011 1347			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	82		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK45**

Lab Sample ID: 280-15202-4
Client Matrix: Solid
% Moisture: 2.3

Date Sampled: 04/27/2011 1030
Date Received: 04/29/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64844	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 1819			Injection Volume:	1 uL
Prep Date:	04/29/2011 1347			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.2	U	8.2	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.7	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	81		59 - 130
Tetrachloro-m-xylene	97		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK46**

Lab Sample ID: 280-15202-5
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1005
Date Received: 04/29/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64844	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 1923			Injection Volume:	1 uL
Prep Date:	04/29/2011 1347			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	85		59 - 130
Tetrachloro-m-xylene	97		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK47**

Lab Sample ID: 280-15202-6
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64844	Initial Weight/Volume:	32.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 1955			Injection Volume:	1 uL
Prep Date:	04/29/2011 1347			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	66		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK48**

Lab Sample ID: 280-15202-7
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 04/27/2011 0945
Date Received: 04/29/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64844	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 2027			Injection Volume:	1 uL
Prep Date:	04/29/2011 1347			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.0	U	8.0	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.7	U	4.7	10
Aroclor 1248		4.7	U	4.7	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	90		59 - 130
Tetrachloro-m-xylene	65		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK49**

Lab Sample ID: 280-15202-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 04/27/2011 0950
Date Received: 04/29/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64844	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 2059			Injection Volume:	1 uL
Prep Date:	04/29/2011 1347			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	83		59 - 130
Tetrachloro-m-xylene	100		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK50**

Lab Sample ID: 280-15202-9
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 04/27/2011 0910
Date Received: 04/29/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64844	Initial Weight/Volume:	31.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 2131			Injection Volume:	1 uL
Prep Date:	04/29/2011 1347			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	85		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK51**

Lab Sample ID: 280-15202-10
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/27/2011 0850
Date Received: 04/29/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64844	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 2202			Injection Volume:	1 uL
Prep Date:	04/29/2011 1347			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	83		59 - 130
Tetrachloro-m-xylene	96		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK52**

Lab Sample ID: 280-15202-11
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 04/27/2011 0840
Date Received: 04/29/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64844	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 2234			Injection Volume:	1 uL
Prep Date:	04/29/2011 1347			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	73		59 - 130
Tetrachloro-m-xylene	98		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK53**

Lab Sample ID: 280-15202-12
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/27/2011 0825
Date Received: 04/29/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64844	Initial Weight/Volume:	31.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 2306			Injection Volume:	1 uL
Prep Date:	04/29/2011 1347			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	78		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK54**

Lab Sample ID: 280-15202-13
Client Matrix: Solid
% Moisture: 8.5

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64844	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 2338			Injection Volume:	1 uL
Prep Date:	04/29/2011 1347			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.0	U	3.0	11
Aroclor 1221		8.8	U	8.8	18
Aroclor 1232		2.2	U	2.2	11
Aroclor 1242		5.1	U	5.1	11
Aroclor 1248		5.1	U	5.1	11
Aroclor 1254		2.8	U	2.8	11
Aroclor 1260		2.8	U	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	77		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK42**

Lab Sample ID: 280-15202-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1045
Date Received: 04/29/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-64927	Lab File ID:	007F0701.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	05/02/2011 1324			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		12000		1000	4200
C10-C28		1500	J	710	4200

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK43**

Lab Sample ID: 280-15202-2
Client Matrix: Solid
% Moisture: 2.6

Date Sampled: 04/27/2011 1040
Date Received: 04/29/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-64927	Lab File ID:	008F0801.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	05/02/2011 1358			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1400	J	1000	4100
C10-C28		700	U	700	4100

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK44**

Lab Sample ID: 280-15202-3
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 04/27/2011 1035
Date Received: 04/29/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-64927	Lab File ID:	011F1101.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	05/02/2011 1538			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2400	J	1000	4000
C10-C28		680	U	680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	86		49 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK45**

Lab Sample ID: 280-15202-4
Client Matrix: Solid
% Moisture: 2.3

Date Sampled: 04/27/2011 1030
Date Received: 04/29/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-64927	Lab File ID:	012F1201.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	05/02/2011 1612			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		6200		990	4000
C10-C28		2300	J	670	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	86		49 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK46**

Lab Sample ID: 280-15202-5
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1005
Date Received: 04/29/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-64927	Lab File ID:	013F1301.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	05/02/2011 1645			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		5500		1000	4100
C10-C28		940	J	690	4100

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK47**

Lab Sample ID: 280-15202-6
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-64927	Lab File ID:	014F1401.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	05/02/2011 1718			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		8700		1000	4100
C10-C28		1400	J	700	4100

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK48**

Lab Sample ID: 280-15202-7
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 04/27/2011 0945
Date Received: 04/29/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-64927	Lab File ID:	016F1601.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	05/02/2011 1825			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		3200	J	1000	4100
C10-C28		690	U	690	4100

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK49**

Lab Sample ID: 280-15202-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 04/27/2011 0950
Date Received: 04/29/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-64927	Lab File ID:	017F1701.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	05/02/2011 1857			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		3200	J	980	3900
C10-C28		670	U	670	3900

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK50**

Lab Sample ID: 280-15202-9
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 04/27/2011 0910
Date Received: 04/29/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-64927	Lab File ID:	018F1801.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	05/02/2011 1930			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		4500		1000	4100
C10-C28		720	J	700	4100

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK51**

Lab Sample ID: 280-15202-10
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/27/2011 0850
Date Received: 04/29/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-64927	Lab File ID:	019F1901.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	05/02/2011 2003			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		3900	J	1000	4000
C10-C28		900	J	680	4000

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK52**

Lab Sample ID: 280-15202-11
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 04/27/2011 0840
Date Received: 04/29/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-64927	Lab File ID:	020F2001.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	05/02/2011 2037			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		12000		1000	4200
C10-C28		5900		710	4200

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK53**

Lab Sample ID: 280-15202-12
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/27/2011 0825
Date Received: 04/29/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-64927	Lab File ID:	021F2101.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	05/02/2011 2110			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		7000		1000	4000
C10-C28		3100	J	680	4000

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK54**

Lab Sample ID: 280-15202-13
Client Matrix: Solid
% Moisture: 8.5

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-64927	Lab File ID:	022F2201.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	05/02/2011 2144			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		8900		1100	4300
C10-C28		1300	J	730	4300

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK42**

Lab Sample ID: 280-15202-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1045
Date Received: 04/29/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64921	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/03/2011 1925			Injection Volume:	20 uL
Prep Date:	04/29/2011 1907			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.1	U	9.1	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		8.2	J	3.2	15
Benzo[a]pyrene		12	J	6.5	15
Benzo[b]fluoranthene		11	J	4.2	15
Benzo[g,h,i]perylene		7.3	U	7.3	30
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		13	J	4.9	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		18	J	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	40
Pyrene		21	J	12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	92		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK43**

Lab Sample ID: 280-15202-2
Client Matrix: Solid
% Moisture: 2.6

Date Sampled: 04/27/2011 1040
Date Received: 04/29/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64921	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/03/2011 1956			Injection Volume:	20 uL
Prep Date:	04/29/2011 1907			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.2	U	9.2	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		6.5	U	6.5	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.3	U	7.3	31
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		4.9	U	4.9	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	95		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK44**

Lab Sample ID: 280-15202-3
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 04/27/2011 1035
Date Received: 04/29/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64921	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/03/2011 2026			Injection Volume:	20 uL
Prep Date:	04/29/2011 1907			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.1	U	9.1	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.5	U	6.5	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.3	U	7.3	30
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		4.9	U	4.9	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	40
Pyrene		12	U	12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	91		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK45**

Lab Sample ID: 280-15202-4
Client Matrix: Solid
% Moisture: 2.3

Date Sampled: 04/27/2011 1030
Date Received: 04/29/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64921	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/03/2011 2158			Injection Volume:	20 uL
Prep Date:	04/29/2011 1907			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.7	U	9.7	97
Acenaphthylene		8.7	U	8.7	97
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		37		3.1	14
Benzo[a]pyrene		6.2	U	6.2	14
Benzo[b]fluoranthene		38		4.1	14
Benzo[g,h,i]perylene		7.0	U	7.0	29
Benzo[k]fluoranthene		21		3.8	14
Chrysene		49		4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		93		13	39
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	97
Phenanthrene		46		12	39
Pyrene		100		12	39

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK46**

Lab Sample ID: 280-15202-5
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1005
Date Received: 04/29/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64921	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/03/2011 2228			Injection Volume:	20 uL
Prep Date:	04/29/2011 1907			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		6.6	U	6.6	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.1	U	4.1	15
Chrysene		5.0	U	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	94		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK47**

Lab Sample ID: 280-15202-6
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64921	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/03/2011 2259			Injection Volume:	20 uL
Prep Date:	04/29/2011 1907			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.4	U	9.4	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		17		3.3	16
Benzo[a]pyrene		15	J X	6.7	16
Benzo[b]fluoranthene		12	J	4.4	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		5.6	J	4.1	16
Chrysene		19	J	5.0	42
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		24	J	14	42
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	42
Pyrene		25	J X	12	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	93		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK48**

Lab Sample ID: 280-15202-7
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 04/27/2011 0945
Date Received: 04/29/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64921	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/04/2011 0000			Injection Volume:	20 uL
Prep Date:	04/29/2011 1907			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.0	U	9.0	100
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		4.4	J X	3.2	15
Benzo[a]pyrene		9.6	J	6.4	15
Benzo[b]fluoranthene		4.8	J	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		4.2	J	3.9	15
Chrysene		7.3	J	4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	40
Pyrene		12	U	12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	91		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK49**

Lab Sample ID: 280-15202-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 04/27/2011 0950
Date Received: 04/29/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64921	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/04/2011 0031			Injection Volume:	20 uL
Prep Date:	04/29/2011 1907			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		6.6	U	6.6	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.1	U	4.1	15
Chrysene		5.0	U	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	95		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK50**

Lab Sample ID: 280-15202-9
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 04/27/2011 0910
Date Received: 04/29/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64921	Initial Weight/Volume:	32.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/04/2011 0101			Injection Volume:	20 uL
Prep Date:	04/29/2011 1907			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.5	U	9.5	95
Acenaphthylene		8.6	U	8.6	95
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.0	U	3.0	14
Benzo[a]pyrene		6.1	U	6.1	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.9	U	6.9	29
Benzo[k]fluoranthene		3.8	U	3.8	14
Chrysene		4.6	U	4.6	38
Dibenzo(a,h)anthracene		10	U	10	29
Fluoranthene		12	U	12	38
Fluorene		5.0	U	5.0	29
Indeno[1,2,3-cd]pyrene		11	U	11	29
Naphthalene		11	U	11	95
Phenanthrene		11	U	11	38
Pyrene		11	U	11	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	94		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK51**

Lab Sample ID: 280-15202-10
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/27/2011 0850
Date Received: 04/29/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64921	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/04/2011 0132			Injection Volume:	20 uL
Prep Date:	04/29/2011 1907			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.1	U	3.1	21
Benzo[a]anthracene		28		3.3	15
Benzo[a]pyrene		32		6.6	15
Benzo[b]fluoranthene		29		4.3	15
Benzo[g,h,i]perylene		22	J	7.4	31
Benzo[k]fluoranthene		14	J	4.1	15
Chrysene		33	J	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		50		13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		16	J	12	41
Pyrene		63		12	41

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK52**

Lab Sample ID: 280-15202-11
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 04/27/2011 0840
Date Received: 04/29/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64921	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/04/2011 0202			Injection Volume:	20 uL
Prep Date:	04/29/2011 1907			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		43	X	3.2	21
Benzo[a]anthracene		410		3.3	16
Benzo[a]pyrene		460		6.7	16
Benzo[b]fluoranthene		360		4.4	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		190		4.1	16
Chrysene		460		5.0	42
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		930		13	42
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		470		12	42
Pyrene		1100		12	42

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK53**

Lab Sample ID: 280-15202-12
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/27/2011 0825
Date Received: 04/29/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64921	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/04/2011 0233			Injection Volume:	20 uL
Prep Date:	04/29/2011 1907			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.1	U	3.1	21
Benzo[a]anthracene		38		3.3	15
Benzo[a]pyrene		45		6.6	15
Benzo[b]fluoranthene		40		4.3	15
Benzo[g,h,i]perylene		35		7.4	31
Benzo[k]fluoranthene		19		4.1	15
Chrysene		49		5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		87		13	41
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		46		12	41
Pyrene		100		12	41

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK54**

Lab Sample ID: 280-15202-13
Client Matrix: Solid
% Moisture: 8.5

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64921	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/04/2011 0303			Injection Volume:	20 uL
Prep Date:	04/29/2011 1907			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.6	U	9.6	110
Anthracene		3.3	U	3.3	21
Benzo[a]anthracene		5.2	J X	3.4	16
Benzo[a]pyrene		16		6.8	16
Benzo[b]fluoranthene		11	J	4.5	16
Benzo[g,h,i]perylene		7.7	U	7.7	32
Benzo[k]fluoranthene		4.6	J X	4.2	16
Chrysene		9.8	J X	5.2	43
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		19	J	14	43
Fluorene		5.6	U	5.6	32
Indeno[1,2,3-cd]pyrene		13	U	13	32
Naphthalene		13	U	13	110
Phenanthrene		13	U	13	43
Pyrene		25	J	13	43

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK42**

Lab Sample ID: 280-15202-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1045
Date Received: 04/29/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65273	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	05/02/2011 2041			Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8390		1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		22.4		0.59	0.90
Barium		82.8		0.068	0.45
Beryllium		0.12	B	0.030	0.18
Boron		2.4		0.88	1.8
Cadmium		0.34		0.037	0.18
Calcium		3550		12.6	44.8
Chromium		10.9		0.052	0.18
Cobalt		6.3	X	0.090	0.90
Copper		12.0		0.19	0.90
Iron		16100		3.4	4.5
Lead		122	X	0.24	0.45
Magnesium		3670		3.3	17.9
Manganese		297		0.090	0.90
Molybdenum		0.33	B	0.23	1.8
Nickel		10.1		0.11	3.6
Potassium		2120		36.8	269
Selenium		0.77	U	0.77	0.90
Silicon		241		5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		204		52.9	108
Vanadium		32.3		0.084	1.8
Zinc		44.3		0.36	0.90

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	05/02/2011 1821			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.011	B	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK43**

Lab Sample ID: 280-15202-2
Client Matrix: Solid
% Moisture: 2.6

Date Sampled: 04/27/2011 1040
Date Received: 04/29/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65273	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	05/02/2011 2050			Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8910		1.4	4.5
Antimony		0.35	U	0.35	0.55
Arsenic		23.5		0.60	0.91
Barium		77.6		0.069	0.45
Beryllium		0.12	B	0.030	0.18
Boron		1.8		0.89	1.8
Cadmium		0.28		0.037	0.18
Calcium		3370		12.8	45.4
Chromium		10.9		0.053	0.18
Cobalt		6.5	X	0.091	0.91
Copper		11.8		0.20	0.91
Iron		16600		3.5	4.5
Lead		53.4	X	0.25	0.45
Magnesium		3740		3.4	18.2
Manganese		304		0.091	0.91
Molybdenum		0.24	U	0.24	1.8
Nickel		10.6		0.11	3.6
Potassium		1860		37.3	273
Selenium		0.78	U	0.78	0.91
Silicon		303		5.1	9.1
Silver		0.15	U	0.15	0.18
Sodium		188		53.6	109
Vanadium		32.1		0.085	1.8
Zinc		39.6		0.36	0.91

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	05/02/2011 1823			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0082	B	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK44**

Lab Sample ID: 280-15202-3
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 04/27/2011 1035
Date Received: 04/29/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65273	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	05/02/2011 2052			Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9230		1.5	4.9
Antimony		0.38	U	0.38	0.59
Arsenic		55.9		0.65	0.99
Barium		83.8		0.075	0.49
Beryllium		0.13	B	0.033	0.20
Boron		1.7	B	0.97	2.0
Cadmium		0.52		0.041	0.20
Calcium		3720		13.9	49.5
Chromium		11.4		0.057	0.20
Cobalt		6.9	X	0.099	0.99
Copper		12.6		0.21	0.99
Iron		17400		3.8	4.9
Lead		198	X	0.27	0.49
Magnesium		3870		3.7	19.8
Manganese		337		0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		10.5		0.12	4.0
Potassium		1820		40.6	297
Selenium		0.85	U	0.85	0.99
Silicon		299		5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		195		58.4	119
Vanadium		34.1		0.093	2.0
Zinc		41.8		0.39	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	05/02/2011 1826			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0089	B	0.0049	0.015

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK45**

Lab Sample ID: 280-15202-4
Client Matrix: Solid
% Moisture: 2.3

Date Sampled: 04/27/2011 1030
Date Received: 04/29/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65273	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	05/02/2011 2055			Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7850		1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		15.9		0.60	0.91
Barium		72.3		0.069	0.46
Beryllium		0.082	B	0.030	0.18
Boron		2.5		0.90	1.8
Cadmium		0.29		0.037	0.18
Calcium		3530		12.9	45.7
Chromium		10.5		0.053	0.18
Cobalt		6.2	X	0.091	0.91
Copper		13.9		0.20	0.91
Iron		15700		3.5	4.6
Lead		182	X	0.25	0.46
Magnesium		3790		3.4	18.3
Manganese		294		0.091	0.91
Molybdenum		0.24	U	0.24	1.8
Nickel		9.9		0.11	3.7
Potassium		1770		37.5	274
Selenium		0.79	U	0.79	0.91
Silicon		262		5.2	9.1
Silver		0.15	U	0.15	0.18
Sodium		204		53.9	110
Vanadium		34.0		0.086	1.8
Zinc		44.9		0.36	0.91

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	05/02/2011 1828			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK46**

Lab Sample ID: 280-15202-5
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/27/2011 1005
Date Received: 04/29/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65273	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	05/02/2011 2057			Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9700		1.4	4.4
Antimony		0.34	U	0.34	0.53
Arsenic		7.0		0.59	0.89
Barium		88.6		0.068	0.44
Beryllium		0.14	B	0.029	0.18
Boron		2.4		0.87	1.8
Cadmium		0.15	B	0.036	0.18
Calcium		3890		12.5	44.4
Chromium		11.6		0.052	0.18
Cobalt		7.1	X	0.089	0.89
Copper		14.7		0.19	0.89
Iron		18500		3.4	4.4
Lead		20.4	X	0.24	0.44
Magnesium		4140		3.3	17.8
Manganese		331		0.089	0.89
Molybdenum		0.23	U	0.23	1.8
Nickel		10.8		0.11	3.6
Potassium		2190		36.4	267
Selenium		0.76	U	0.76	0.89
Silicon		274		5.0	8.9
Silver		0.14	U	0.14	0.18
Sodium		202		52.4	107
Vanadium		36.6		0.084	1.8
Zinc		44.9		0.35	0.89

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	05/02/2011 1830			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.014	B	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK47**

Lab Sample ID: 280-15202-6
Client Matrix: Solid
% Moisture: 4 2

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65273	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	05/02/2011 2108			Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9280		1.4	4.7
Antimony		0.35	U	0.35	0.56
Arsenic		41.0		0.61	0.93
Barium		85.3		0.071	0.47
Beryllium		0.13	B	0.031	0.19
Boron		2.2		0.91	1.9
Cadmium		0.45		0.038	0.19
Calcium		3780		13.1	46.6
Chromium		11.1		0.054	0.19
Cobalt		6.7	X	0.093	0.93
Copper		12.9		0.20	0.93
Iron		17200		3.5	4.7
Lead		181	X	0.25	0.47
Magnesium		3930		3.4	18.6
Manganese		318		0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		10.4		0.11	3.7
Potassium		2090		38.2	280
Selenium		0.80	U	0.80	0.93
Silicon		214		5.3	9.3
Silver		0.15	U	0.15	0.19
Sodium		192		55.0	112
Vanadium		33.3		0.088	1.9
Zinc		43.2		0.37	0.93

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	05/02/2011 1833			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.012	B	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK48**

Lab Sample ID: 280-15202-7
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 04/27/2011 0945
Date Received: 04/29/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65273	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	05/02/2011 2111			Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10200		1.6	5.2
Antimony		0.39	U	0.39	0.62
Arsenic		32.0		0.68	1.0
Barium		95.3		0.078	0.52
Beryllium		0.13	B	0.034	0.21
Boron		2.1		1.0	2.1
Cadmium		0.39		0.042	0.21
Calcium		3910		14.6	51.6
Chromium		12.2		0.060	0.21
Cobalt		7.7	X	0.10	1.0
Copper		14.0		0.22	1.0
Iron		19400		3.9	5.2
Lead		131	X	0.28	0.52
Magnesium		4340		3.8	20.7
Manganese		357		0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		11.6		0.13	4.1
Potassium		2300		42.3	310
Selenium		0.89	U	0.89	1.0
Silicon		343		5.8	10.3
Silver		0.17	U	0.17	0.21
Sodium		214		60.9	124
Vanadium		37.6		0.097	2.1
Zinc		45.6		0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	05/02/2011 1840			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.011	B	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK49**

Lab Sample ID: 280-15202-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 04/27/2011 0950
Date Received: 04/29/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65273	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	05/02/2011 2113			Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10100		1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		32.4		0.60	0.90
Barium		86.0		0.069	0.45
Beryllium		0.11	B	0.030	0.18
Boron		1.8		0.89	1.8
Cadmium		0.35		0.037	0.18
Calcium		4020		12.7	45.2
Chromium		12.1		0.052	0.18
Cobalt		7.5	X	0.090	0.90
Copper		14.1		0.20	0.90
Iron		19000		3.4	4.5
Lead		87.0	X	0.24	0.45
Magnesium		4360		3.3	18.1
Manganese		334		0.090	0.90
Molybdenum		0.24	U	0.24	1.8
Nickel		11.8		0.11	3.6
Potassium		1990		37.1	271
Selenium		0.78	U	0.78	0.90
Silicon		331		5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		225		53.3	108
Vanadium		38.8		0.085	1.8
Zinc		42.1		0.36	0.90

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	05/02/2011 1842			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0099	B	0.0057	0.017

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK50**

Lab Sample ID: 280-15202-9
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 04/27/2011 0910
Date Received: 04/29/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65273	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	05/02/2011 2115			Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10400		1.4	4.7
Antimony		0.35	U	0.35	0.56
Arsenic		85.0		0.62	0.93
Barium		94.1		0.071	0.47
Beryllium		0.12	B	0.031	0.19
Boron		2.3		0.91	1.9
Cadmium		0.82		0.038	0.19
Calcium		3970		13.2	46.6
Chromium		12.8		0.054	0.19
Cobalt		7.8	X	0.093	0.93
Copper		14.4		0.20	0.93
Iron		19600		3.5	4.7
Lead		518	X	0.25	0.47
Magnesium		4420		3.5	18.7
Manganese		394		0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		12.0		0.11	3.7
Potassium		2460		38.2	280
Selenium		0.80	U	0.80	0.93
Silicon		365		5.3	9.3
Silver		0.15	U	0.15	0.19
Sodium		213		55.0	112
Vanadium		40.0		0.088	1.9
Zinc		48.1		0.37	0.93

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	05/02/2011 1844			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.014	B	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK51**

Lab Sample ID: 280-15202-10
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/27/2011 0850
Date Received: 04/29/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65273	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	05/02/2011 2117			Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10200		1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		77.5		0.63	0.95
Barium		94.5		0.072	0.48
Beryllium		0.12	B	0.031	0.19
Boron		2.2		0.93	1.9
Cadmium		0.75		0.039	0.19
Calcium		4140		13.4	47.7
Chromium		12.9		0.055	0.19
Cobalt		7.7	X	0.095	0.95
Copper		14.8		0.21	0.95
Iron		19700		3.6	4.8
Lead		286	X	0.26	0.48
Magnesium		4430		3.5	19.1
Manganese		382		0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		12.1		0.12	3.8
Potassium		2320		39.1	286
Selenium		0.82	U	0.82	0.95
Silicon		384		5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		217		56.3	114
Vanadium		39.2		0.090	1.9
Zinc		50.8		0.38	0.95

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	05/02/2011 1847			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.012	B	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK52**

Lab Sample ID: 280-15202-11
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 04/27/2011 0840
Date Received: 04/29/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65273	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	05/02/2011 2120			Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10400		1.5	4.7
Antimony		0.36	U	0.36	0.57
Arsenic		72.9		0.63	0.95
Barium		93.3		0.072	0.47
Beryllium		0.11	B	0.031	0.19
Boron		1.9		0.93	1.9
Cadmium		0.73		0.039	0.19
Calcium		4070		13.4	47.5
Chromium		12.8		0.055	0.19
Cobalt		8.1	X	0.095	0.95
Copper		15.4		0.21	0.95
Iron		20200		3.6	4.7
Lead		245	X	0.26	0.47
Magnesium		4620		3.5	19.0
Manganese		366		0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		12.1		0.12	3.8
Potassium		2220		38.9	285
Selenium		0.82	U	0.82	0.95
Silicon		324		5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		230		56.0	114
Vanadium		40.6		0.089	1.9
Zinc		52.2		0.38	0.95

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	05/02/2011 1853			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.011	B	0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK53**

Lab Sample ID: 280-15202-12
Client Matrix: Solid
% Moisture: 4 4

Date Sampled: 04/27/2011 0825
Date Received: 04/29/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65273	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	05/02/2011 2122			Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10000		1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		104		0.60	0.90
Barium		88.8		0.069	0.45
Beryllium		0.13	B	0.030	0.18
Boron		1.8		0.88	1.8
Cadmium		0.95		0.037	0.18
Calcium		3840		12.7	45.1
Chromium		12.3		0.052	0.18
Cobalt		7.8	X	0.090	0.90
Copper		14.1		0.20	0.90
Iron		19500		3.4	4.5
Lead		410	X	0.24	0.45
Magnesium		4310		3.3	18.0
Manganese		384		0.090	0.90
Molybdenum		0.23	U	0.23	1.8
Nickel		11.7		0.11	3.6
Potassium		2310		37.0	271
Selenium		0.78	U	0.78	0.90
Silicon		322		5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		201		53.2	108
Vanadium		38.7		0.085	1.8
Zinc		47.9		0.36	0.90

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	05/02/2011 1856			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.019		0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Client Sample ID: **J1HK54**

Lab Sample ID: 280-15202-13
Client Matrix: Solid
% Moisture: 8.5

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65273	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	05/02/2011 2124			Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10700		1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		47.9		0.67	1.0
Barium		100		0.078	0.51
Beryllium		0.14	B	0.034	0.20
Boron		2.5		1.0	2.0
Cadmium		0.55		0.042	0.20
Calcium		4230		14.4	51.1
Chromium		12.9		0.059	0.20
Cobalt		8.0	X	0.10	1.0
Copper		15.4		0.22	1.0
Iron		20300		3.9	5.1
Lead		218	X	0.28	0.51
Magnesium		4540		3.8	20.4
Manganese		372		0.10	1.0
Molybdenum		0.27	U	0.27	2.0
Nickel		12.0		0.13	4.1
Potassium		2430		41.9	306
Selenium		0.88	U	0.88	1.0
Silicon		366		5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		232		60.3	123
Vanadium		40.8		0.096	2.0
Zinc		50.9		0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	05/02/2011 1858			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.013	B	0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HK42**

Lab Sample ID: 280-15202-1
Client Matrix: Solid

Date Sampled: 04/27/2011 1045
Date Received: 04/29/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.9	M	%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HK43**

Lab Sample ID: 280-15202-2
Client Matrix: Solid

Date Sampled: 04/27/2011 1040
Date Received: 04/29/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HK44**

Lab Sample ID: 280-15202-3
Client Matrix: Solid

Date Sampled: 04/27/2011 1035
Date Received: 04/29/2011 0930

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

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HK45**

Lab Sample ID: 280-15202-4
Client Matrix: Solid

Date Sampled: 04/27/2011 1030
Date Received: 04/29/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HK46**

Lab Sample ID: 280-15202-5
Client Matrix: Solid

Date Sampled: 04/27/2011 1005
Date Received: 04/29/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.9		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HK47**

Lab Sample ID: 280-15202-6
Client Matrix: Solid

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

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

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HK48**

Lab Sample ID: 280-15202-7
Client Matrix: Solid

Date Sampled: 04/27/2011 0945
Date Received: 04/29/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HK49**

Lab Sample ID: 280-15202-8
Client Matrix: Solid

Date Sampled: 04/27/2011 0950
Date Received: 04/29/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HK50**

Lab Sample ID: 280-15202-9
Client Matrix: Solid

Date Sampled: 04/27/2011 0910
Date Received: 04/29/2011 0930

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

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HK51**

Lab Sample ID: 280-15202-10
Client Matrix: Solid

Date Sampled: 04/27/2011 0850
Date Received: 04/29/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.9		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HK52**

Lab Sample ID: 280-15202-11
Client Matrix: Solid

Date Sampled: 04/27/2011 0840
Date Received: 04/29/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HK53**

Lab Sample ID: 280-15202-12
Client Matrix: Solid

Date Sampled: 04/27/2011 0825
Date Received: 04/29/2011 0930

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

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HK54**

Lab Sample ID: 280-15202-13
Client Matrix: Solid

Date Sampled: 04/27/2011 0920
Date Received: 04/29/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

General Chemistry

Client Sample ID: **J1HKF6**

Lab Sample ID: 280-15202-14
Client Matrix: Solid

Date Sampled: 04/27/2011 0815
Date Received: 04/29/2011 0930

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

Analysis Batch: 280-64859 Analysis Date: 04/29/2011 1319 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 280-64829					
LCS 280-64829/3-A	Lab Control Sample	T	Solid	5035	
MB 280-64829/2-A	Method Blank	T	Solid	5035	
280-15202-1	J1HK42	T	Solid	5035	
280-15202-1MS	Matrix Spike	T	Solid	5035	
280-15202-1MSD	Matrix Spike Duplicate	T	Solid	5035	
280-15202-2	J1HK43	T	Solid	5035	
280-15202-3	J1HK44	T	Solid	5035	
280-15202-4	J1HK45	T	Solid	5035	
280-15202-5	J1HK46	T	Solid	5035	
280-15202-6	J1HK47	T	Solid	5035	
280-15202-7	J1HK48	T	Solid	5035	
280-15202-8	J1HK49	T	Solid	5035	
280-15202-9	J1HK50	T	Solid	5035	
280-15202-9MS	Matrix Spike	T	Solid	5035	
280-15202-9MSD	Matrix Spike Duplicate	T	Solid	5035	
280-15202-10	J1HK51	T	Solid	5035	
280-15202-11	J1HK52	T	Solid	5035	
280-15202-12	J1HK53	T	Solid	5035	
280-15202-13	J1HK54	T	Solid	5035	
280-15202-14	J1HKF6	T	Solid	5035	
Analysis Batch:280-65169					
LCS 280-64829/3-A	Lab Control Sample	T	Solid	8260B	280-64829
280-15202-5	J1HK46	T	Solid	8260B	280-64829
280-15202-6	J1HK47	T	Solid	8260B	280-64829
280-15202-9	J1HK50	T	Solid	8260B	280-64829
280-15202-9MS	Matrix Spike	T	Solid	8260B	280-64829
280-15202-9MSD	Matrix Spike Duplicate	T	Solid	8260B	280-64829
280-15202-14	J1HKF6	T	Solid	8260B	280-64829
Analysis Batch:280-65481					
LCS 280-64829/3-A	Lab Control Sample	T	Solid	8260B	280-64829
MB 280-64829/2-A	Method Blank	T	Solid	8260B	280-64829
280-15202-1	J1HK42	T	Solid	8260B	280-64829
280-15202-1MS	Matrix Spike	T	Solid	8260B	280-64829
280-15202-1MSD	Matrix Spike Duplicate	T	Solid	8260B	280-64829
280-15202-2	J1HK43	T	Solid	8260B	280-64829
280-15202-3	J1HK44	T	Solid	8260B	280-64829
280-15202-4	J1HK45	T	Solid	8260B	280-64829
280-15202-7	J1HK48	T	Solid	8260B	280-64829
280-15202-8	J1HK49	T	Solid	8260B	280-64829
280-15202-10	J1HK51	T	Solid	8260B	280-64829
280-15202-11	J1HK52	T	Solid	8260B	280-64829
280-15202-12	J1HK53	T	Solid	8260B	280-64829
280-15202-13	J1HK54	T	Solid	8260B	280-64829

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-64844					
LCS 280-64844/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-64844/1-A	Method Blank	T	Solid	3550C	
280-15202-1	J1HK42	T	Solid	3550C	
280-15202-1MS	Matrix Spike	T	Solid	3550C	
280-15202-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-15202-2	J1HK43	T	Solid	3550C	
280-15202-3	J1HK44	T	Solid	3550C	
280-15202-4	J1HK45	T	Solid	3550C	
280-15202-5	J1HK46	T	Solid	3550C	
280-15202-6	J1HK47	T	Solid	3550C	
280-15202-7	J1HK48	T	Solid	3550C	
280-15202-8	J1HK49	T	Solid	3550C	
280-15202-9	J1HK50	T	Solid	3550C	
280-15202-10	J1HK51	T	Solid	3550C	
280-15202-11	J1HK52	T	Solid	3550C	
280-15202-12	J1HK53	T	Solid	3550C	
280-15202-13	J1HK54	T	Solid	3550C	
Prep Batch: 280-64896					
LCS 280-64896/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-64896/1-A	Method Blank	T	Solid	3550C	
280-15202-1	J1HK42	T	Solid	3550C	
280-15202-2	J1HK43	T	Solid	3550C	
280-15202-2MS	Matrix Spike	T	Solid	3550C	
280-15202-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-15202-3	J1HK44	T	Solid	3550C	
280-15202-4	J1HK45	T	Solid	3550C	
280-15202-5	J1HK46	T	Solid	3550C	
280-15202-6	J1HK47	T	Solid	3550C	
280-15202-7	J1HK48	T	Solid	3550C	
280-15202-8	J1HK49	T	Solid	3550C	
280-15202-9	J1HK50	T	Solid	3550C	
280-15202-10	J1HK51	T	Solid	3550C	
280-15202-11	J1HK52	T	Solid	3550C	
280-15202-12	J1HK53	T	Solid	3550C	
280-15202-13	J1HK54	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-64927					
LCS 280-64927/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-64927/18-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-64927/1-A	Method Blank	T	Solid	3550C	
280-15202-1	J1HK42	T	Solid	3550C	
280-15202-2	J1HK43	T	Solid	3550C	
280-15202-2MS	Matrix Spike	T	Solid	3550C	
280-15202-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-15202-3	J1HK44	T	Solid	3550C	
280-15202-4	J1HK45	T	Solid	3550C	
280-15202-5	J1HK46	T	Solid	3550C	
280-15202-6	J1HK47	T	Solid	3550C	
280-15202-7	J1HK48	T	Solid	3550C	
280-15202-8	J1HK49	T	Solid	3550C	
280-15202-9	J1HK50	T	Solid	3550C	
280-15202-10	J1HK51	T	Solid	3550C	
280-15202-11	J1HK52	T	Solid	3550C	
280-15202-12	J1HK53	T	Solid	3550C	
280-15202-13	J1HK54	T	Solid	3550C	
Analysis Batch:280-65278					
LCS 280-64896/2-A	Lab Control Sample	T	Solid	8081A	280-64896
MB 280-64896/1-A	Method Blank	T	Solid	8081A	280-64896
280-15202-1	J1HK42	T	Solid	8081A	280-64896
280-15202-2	J1HK43	T	Solid	8081A	280-64896
280-15202-2MS	Matrix Spike	T	Solid	8081A	280-64896
280-15202-2MSD	Matrix Spike Duplicate	T	Solid	8081A	280-64896
280-15202-3	J1HK44	T	Solid	8081A	280-64896
280-15202-4	J1HK45	T	Solid	8081A	280-64896
280-15202-5	J1HK46	T	Solid	8081A	280-64896
280-15202-6	J1HK47	T	Solid	8081A	280-64896
280-15202-7	J1HK48	T	Solid	8081A	280-64896
280-15202-8	J1HK49	T	Solid	8081A	280-64896
280-15202-9	J1HK50	T	Solid	8081A	280-64896
280-15202-10	J1HK51	T	Solid	8081A	280-64896
280-15202-11	J1HK52	T	Solid	8081A	280-64896
280-15202-12	J1HK53	T	Solid	8081A	280-64896
280-15202-13	J1HK54	T	Solid	8081A	280-64896

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-65329					
LCS 280-64927/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-64927
LCSD 280-64927/18-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-64927
MB 280-64927/1-A	Method Blank	T	Solid	NWTPH-Dx	280-64927
280-15202-1	J1HK42	T	Solid	NWTPH-Dx	280-64927
280-15202-2	J1HK43	T	Solid	NWTPH-Dx	280-64927
280-15202-2MS	Matrix Spike	T	Solid	NWTPH-Dx	280-64927
280-15202-2MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-64927
280-15202-3	J1HK44	T	Solid	NWTPH-Dx	280-64927
280-15202-4	J1HK45	T	Solid	NWTPH-Dx	280-64927
280-15202-5	J1HK46	T	Solid	NWTPH-Dx	280-64927
280-15202-6	J1HK47	T	Solid	NWTPH-Dx	280-64927
280-15202-7	J1HK48	T	Solid	NWTPH-Dx	280-64927
280-15202-8	J1HK49	T	Solid	NWTPH-Dx	280-64927
280-15202-9	J1HK50	T	Solid	NWTPH-Dx	280-64927
280-15202-10	J1HK51	T	Solid	NWTPH-Dx	280-64927
280-15202-11	J1HK52	T	Solid	NWTPH-Dx	280-64927
280-15202-12	J1HK53	T	Solid	NWTPH-Dx	280-64927
280-15202-13	J1HK54	T	Solid	NWTPH-Dx	280-64927
Analysis Batch:280-65502					
LCS 280-64844/2-A	Lab Control Sample	T	Solid	8082	280-64844
MB 280-64844/1-A	Method Blank	T	Solid	8082	280-64844
280-15202-1	J1HK42	T	Solid	8082	280-64844
280-15202-1MS	Matrix Spike	T	Solid	8082	280-64844
280-15202-1MSD	Matrix Spike Duplicate	T	Solid	8082	280-64844
280-15202-2	J1HK43	T	Solid	8082	280-64844
280-15202-3	J1HK44	T	Solid	8082	280-64844
280-15202-4	J1HK45	T	Solid	8082	280-64844
280-15202-5	J1HK46	T	Solid	8082	280-64844
280-15202-6	J1HK47	T	Solid	8082	280-64844
280-15202-7	J1HK48	T	Solid	8082	280-64844
280-15202-8	J1HK49	T	Solid	8082	280-64844
280-15202-9	J1HK50	T	Solid	8082	280-64844
280-15202-10	J1HK51	T	Solid	8082	280-64844
280-15202-11	J1HK52	T	Solid	8082	280-64844
280-15202-12	J1HK53	T	Solid	8082	280-64844
280-15202-13	J1HK54	T	Solid	8082	280-64844

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-64845					
LCS 280-64845/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-64845/1-A	Method Blank	T	Solid	3050B	
280-15202-1	J1HK42	T	Solid	3050B	
280-15202-1DU	Duplicate	T	Solid	3050B	
280-15202-1MS	Matrix Spike	T	Solid	3050B	
280-15202-2	J1HK43	T	Solid	3050B	
280-15202-3	J1HK44	T	Solid	3050B	
280-15202-4	J1HK45	T	Solid	3050B	
280-15202-5	J1HK46	T	Solid	3050B	
280-15202-6	J1HK47	T	Solid	3050B	
280-15202-7	J1HK48	T	Solid	3050B	
280-15202-8	J1HK49	T	Solid	3050B	
280-15202-9	J1HK50	T	Solid	3050B	
280-15202-10	J1HK51	T	Solid	3050B	
280-15202-11	J1HK52	T	Solid	3050B	
280-15202-12	J1HK53	T	Solid	3050B	
280-15202-13	J1HK54	T	Solid	3050B	
Prep Batch: 280-64910					
LCS 280-64910/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-64910/1-A	Method Blank	T	Solid	7471A	
280-15202-1	J1HK42	T	Solid	7471A	
280-15202-2	J1HK43	T	Solid	7471A	
280-15202-3	J1HK44	T	Solid	7471A	
280-15202-4	J1HK45	T	Solid	7471A	
280-15202-5	J1HK46	T	Solid	7471A	
280-15202-6	J1HK47	T	Solid	7471A	
280-15202-7	J1HK48	T	Solid	7471A	
280-15202-8	J1HK49	T	Solid	7471A	
280-15202-9	J1HK50	T	Solid	7471A	
280-15202-10	J1HK51	T	Solid	7471A	
280-15202-10DU	Duplicate	T	Solid	7471A	
280-15202-10MS	Matrix Spike	T	Solid	7471A	
280-15202-11	J1HK52	T	Solid	7471A	
280-15202-12	J1HK53	T	Solid	7471A	
280-15202-13	J1HK54	T	Solid	7471A	

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-65273					
LCS 280-64845/2-A	Lab Control Sample	T	Solid	6010B	280-64845
MB 280-64845/1-A	Method Blank	T	Solid	6010B	280-64845
280-15202-1	J1HK42	T	Solid	6010B	280-64845
280-15202-1DU	Duplicate	T	Solid	6010B	280-64845
280-15202-1MS	Matrix Spike	T	Solid	6010B	280-64845
280-15202-2	J1HK43	T	Solid	6010B	280-64845
280-15202-3	J1HK44	T	Solid	6010B	280-64845
280-15202-4	J1HK45	T	Solid	6010B	280-64845
280-15202-5	J1HK46	T	Solid	6010B	280-64845
280-15202-6	J1HK47	T	Solid	6010B	280-64845
280-15202-7	J1HK48	T	Solid	6010B	280-64845
280-15202-8	J1HK49	T	Solid	6010B	280-64845
280-15202-9	J1HK50	T	Solid	6010B	280-64845
280-15202-10	J1HK51	T	Solid	6010B	280-64845
280-15202-11	J1HK52	T	Solid	6010B	280-64845
280-15202-12	J1HK53	T	Solid	6010B	280-64845
280-15202-13	J1HK54	T	Solid	6010B	280-64845
Analysis Batch:280-65432					
LCS 280-64910/2-A	Lab Control Sample	T	Solid	7471A	280-64910
MB 280-64910/1-A	Method Blank	T	Solid	7471A	280-64910
280-15202-1	J1HK42	T	Solid	7471A	280-64910
280-15202-2	J1HK43	T	Solid	7471A	280-64910
280-15202-3	J1HK44	T	Solid	7471A	280-64910
280-15202-4	J1HK45	T	Solid	7471A	280-64910
280-15202-5	J1HK46	T	Solid	7471A	280-64910
280-15202-6	J1HK47	T	Solid	7471A	280-64910
280-15202-7	J1HK48	T	Solid	7471A	280-64910
280-15202-8	J1HK49	T	Solid	7471A	280-64910
280-15202-9	J1HK50	T	Solid	7471A	280-64910
280-15202-10	J1HK51	T	Solid	7471A	280-64910
280-15202-10DU	Duplicate	T	Solid	7471A	280-64910
280-15202-10MS	Matrix Spike	T	Solid	7471A	280-64910
280-15202-11	J1HK52	T	Solid	7471A	280-64910
280-15202-12	J1HK53	T	Solid	7471A	280-64910
280-15202-13	J1HK54	T	Solid	7471A	280-64910

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-64859					
280-15202-1	J1HK42	T	Solid	D-2216	
280-15202-1DU	Duplicate	T	Solid	D-2216	
280-15202-2	J1HK43	T	Solid	D-2216	
280-15202-3	J1HK44	T	Solid	D-2216	
280-15202-4	J1HK45	T	Solid	D-2216	
280-15202-5	J1HK46	T	Solid	D-2216	
280-15202-6	J1HK47	T	Solid	D-2216	
280-15202-7	J1HK48	T	Solid	D-2216	
280-15202-8	J1HK49	T	Solid	D-2216	
280-15202-9	J1HK50	T	Solid	D-2216	
280-15202-10	J1HK51	T	Solid	D-2216	
280-15202-11	J1HK52	T	Solid	D-2216	
280-15202-12	J1HK53	T	Solid	D-2216	
280-15202-13	J1HK54	T	Solid	D-2216	
280-15202-14	J1HKF6	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-64921					
LCS 280-64921/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-64921/1-A	Method Blank	T	Solid	3550C	
280-15202-1	J1HK42	T	Solid	3550C	
280-15202-2	J1HK43	T	Solid	3550C	
280-15202-3	J1HK44	T	Solid	3550C	
280-15202-3MS	Matrix Spike	T	Solid	3550C	
280-15202-3MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-15202-4	J1HK45	T	Solid	3550C	
280-15202-5	J1HK46	T	Solid	3550C	
280-15202-6	J1HK47	T	Solid	3550C	
280-15202-7	J1HK48	T	Solid	3550C	
280-15202-8	J1HK49	T	Solid	3550C	
280-15202-9	J1HK50	T	Solid	3550C	
280-15202-10	J1HK51	T	Solid	3550C	
280-15202-11	J1HK52	T	Solid	3550C	
280-15202-12	J1HK53	T	Solid	3550C	
280-15202-13	J1HK54	T	Solid	3550C	
Analysis Batch:280-65271					
LCS 280-64921/2-A	Lab Control Sample	T	Solid	8310	280-64921
MB 280-64921/1-A	Method Blank	T	Solid	8310	280-64921
280-15202-1	J1HK42	T	Solid	8310	280-64921
280-15202-2	J1HK43	T	Solid	8310	280-64921
280-15202-3	J1HK44	T	Solid	8310	280-64921
280-15202-3MS	Matrix Spike	T	Solid	8310	280-64921
280-15202-3MSD	Matrix Spike Duplicate	T	Solid	8310	280-64921
280-15202-4	J1HK45	T	Solid	8310	280-64921
280-15202-5	J1HK46	T	Solid	8310	280-64921
280-15202-6	J1HK47	T	Solid	8310	280-64921
280-15202-7	J1HK48	T	Solid	8310	280-64921
280-15202-8	J1HK49	T	Solid	8310	280-64921
280-15202-9	J1HK50	T	Solid	8310	280-64921
280-15202-10	J1HK51	T	Solid	8310	280-64921
280-15202-11	J1HK52	T	Solid	8310	280-64921
280-15202-12	J1HK53	T	Solid	8310	280-64921
280-15202-13	J1HK54	T	Solid	8310	280-64921

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Method Blank - Batch: 280-64829

Method: 8260B
Preparation: 5035

Lab Sample ID:	MB 280-64829/2-A	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64829	Lab File ID:	J6286.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.011 g
Analysis Date:	04/30/2011 0808	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	5.4	U	5.4	20
Benzene	0.47	U	0.47	5.0
Bromodichloromethane	0.22	U	0.22	5.0
Bromoform	0.23	U	0.23	5.0
Bromomethane	0.50	U	0.50	10
2-Butanone (MEK)	1.8	U	1.8	10
Carbon disulfide	0.42	U	0.42	5.0
Carbon tetrachloride	0.63	U	0.63	5.0
Chlorobenzene	0.54	U	0.54	5.0
Dibromochloromethane	0.57	U	0.57	5.0
Chloroethane	0.89	U	0.89	10
Chloroform	0.29	U	0.29	5.0
Chloromethane	0.77	U	0.77	10
1,3-Dichlorobenzene	0.48	U	0.48	5.0
1,1-Dichloroethane	0.21	U	0.21	5.0
1,2-Dichloroethane	0.70	U	0.70	5.0
trans-1,2-Dichloroethene	0.39	U	0.39	2.5
1,1-Dichloroethene	0.59	U	0.59	5.0
1,2-Dichloroethene, Total	0.39	U	0.39	5.0
1,2-Dichloropropane	0.55	U	0.55	5.0
cis-1,3-Dichloropropene	1.3	U	1.3	5.0
trans-1,3-Dichloropropene	0.67	U	0.67	5.0
Ethylbenzene	0.67	U	0.67	5.0
2-Hexanone	4.9	U	4.9	20
Methylene Chloride	0.75	U	0.75	5.0
4-Methyl-2-pentanone (MIBK)	4.4	U	4.4	10
Styrene	0.63	U	0.63	5.0
1,1,2,2-Tetrachloroethane	0.61	U	0.61	5.0
Tetrachloroethene	0.59	U	0.59	5.0
Toluene	0.69	U	0.69	5.0
1,1,1-Trichloroethane	0.52	U	0.52	5.0
1,1,2-Trichloroethane	0.88	U	0.88	5.0
Trichloroethene	0.23	U	0.23	5.0
Vinyl chloride	1.3	U	1.3	5.0
Xylenes, Total	0.61	U	0.61	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111	58 - 140
Toluene-d8 (Surr)	106	80 - 126
4-Bromofluorobenzene (Surr)	107	76 - 127
Dibromofluoromethane (Surr)	106	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Method Blank TICs- Batch: 280-64829

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	16.05	5.28	N J
	Unknown	14.02	7.03	N J

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Lab Control Sample - Batch: 280-64829

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-64829/3-A	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64829	Lab File ID:	J6261.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/29/2011 2138	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	53.6	107	76 - 120	
Bromodichloromethane	50.0	52.2	104	74 - 125	
Carbon tetrachloride	50.0	57.5	115	69 - 147	
Chlorobenzene	50.0	54.5	109	74 - 120	
Chloroform	50.0	52.2	104	77 - 125	
1,3-Dichlorobenzene	50.0	55.8	112	74 - 120	
1,1-Dichloroethane	50.0	51.4	103	74 - 120	
trans-1,2-Dichloroethene	50.0	52.8	106	80 - 127	
1,1-Dichloroethene	50.0	61.9	124	77 - 143	
1,2-Dichloropropane	50.0	51.1	102	74 - 120	
Ethylbenzene	50.0	54.7	109	78 - 120	
Methylene Chloride	50.0	55.9	112	76 - 137	
Tetrachloroethene	50.0	56.3	113	71 - 120	
Toluene	50.0	53.8	108	72 - 120	
1,1,1-Trichloroethane	50.0	54.2	108	67 - 143	
Trichloroethene	50.0	56.4	113	78 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	58 - 140
Toluene-d8 (Surr)	119	80 - 126
4-Bromofluorobenzene (Surr)	103	76 - 127
Dibromofluoromethane (Surr)	94	75 - 121

Lab Control Sample - Batch: 280-64829

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-64829/3-A	Analysis Batch:	280-65169	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64829	Lab File ID:	J6292.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/30/2011 1321	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	51.7	103	76 - 120	
Bromodichloromethane	50.0	49.6	99	74 - 125	
Carbon tetrachloride	50.0	50.7	101	69 - 147	
Chlorobenzene	50.0	49.7	99	74 - 120	
Chloroform	50.0	50.2	100	77 - 125	
1,3-Dichlorobenzene	50.0	50.2	100	74 - 120	

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Lab Control Sample - Batch: 280-64829

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-64829/3-A	Analysis Batch:	280-65169	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64829	Lab File ID:	J6292.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/30/2011 1321	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	50.0	48.0	96	74 - 120	
trans-1,2-Dichloroethene	50.0	50.6	101	80 - 127	
1,1-Dichloroethene	50.0	53.4	107	77 - 143	
1,2-Dichloropropane	50.0	48.2	96	74 - 120	
Ethylbenzene	50.0	50.8	102	78 - 120	
Methylene Chloride	50.0	54.6	109	76 - 137	
Tetrachloroethene	50.0	50.9	102	71 - 120	
Toluene	50.0	50.3	101	72 - 120	
1,1,1-Trichloroethane	50.0	48.4	97	67 - 143	
Trichloroethene	50.0	50.1	100	78 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	58 - 140
Toluene-d8 (Surr)	120	80 - 126
4-Bromofluorobenzene (Surr)	99	76 - 127
Dibromofluoromethane (Surr)	96	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64829

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	280-15202-1	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64829	Lab File ID:	J6270.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.029 g
Analysis Date:	04/30/2011 0105			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				
Leach Date:	N/A				

MSD Lab Sample ID:	280-15202-1	Analysis Batch:	280-65481	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64829	Lab File ID:	J6271.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.601 g
Analysis Date:	04/30/2011 0128			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	90	90	76 - 120	9	20		
Bromodichloromethane	97	99	74 - 125	11	20		
Carbon tetrachloride	93	90	69 - 147	6	20		
Chlorobenzene	89	93	74 - 120	13	20		
Chloroform	94	94	77 - 125	9	20		
1,3-Dichlorobenzene	87	91	74 - 120	13	20		
1,1-Dichloroethane	92	89	74 - 120	5	20		
trans-1,2-Dichloroethene	88	84	80 - 127	3	20		
1,1-Dichloroethene	98	96	77 - 143	7	20		
1,2-Dichloropropane	95	95	74 - 120	9	20		
Ethylbenzene	89	91	78 - 120	11	20		
Methylene Chloride	101	103	76 - 137	11	21		
Tetrachloroethene	85	86	71 - 120	10	20		
Toluene	92	93	72 - 120	10	20		
1,1,1-Trichloroethane	91	90	67 - 143	8	20		
Trichloroethene	91	91	78 - 120	9	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	99	58 - 140
Toluene-d8 (Surr)	118	115	80 - 126
4-Bromofluorobenzene (Surr)	110	110	76 - 127
Dibromofluoromethane (Surr)	98	96	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64829

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	280-15202-9	Analysis Batch:	280-65169	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64829	Lab File ID:	J6313.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.652 g
Analysis Date:	04/30/2011 2200			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				
Leach Date:	N/A				

MSD Lab Sample ID:	280-15202-9	Analysis Batch:	280-65169	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64829	Lab File ID:	J6314.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.337 g
Analysis Date:	04/30/2011 2223			Final Weight/Volume:	5 mL
Prep Date:	04/29/2011 1041				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	90	99	76 - 120	17	20		
Bromodichloromethane	90	87	74 - 125	4	20		
Carbon tetrachloride	84	79	69 - 147	1	20		
Chlorobenzene	85	76	74 - 120	4	20		
Chloroform	89	87	77 - 125	5	20		
1,3-Dichlorobenzene	78	68	74 - 120	8	20		T
1,1-Dichloroethane	86	82	74 - 120	3	20		
trans-1,2-Dichloroethene	83	80	80 - 127	3	20		
1,1-Dichloroethene	90	88	77 - 143	5	20		
1,2-Dichloropropane	90	87	74 - 120	4	20		
Ethylbenzene	84	74	78 - 120	5	20		T
Methylene Chloride	100	104	76 - 137	11	21		
Tetrachloroethene	79	71	71 - 120	3	20		
Toluene	85	79	72 - 120	1	20		
1,1,1-Trichloroethane	88	81	67 - 143	1	20		
Trichloroethene	85	77	78 - 120	2	20		T

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88	94	58 - 140
Toluene-d8 (Surr)	116	122	80 - 126
4-Bromofluorobenzene (Surr)	105	117	76 - 127
Dibromofluoromethane (Surr)	90	95	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Method Blank - Batch: 280-64896

Method: 8081A
Preparation: 3550C

Lab Sample ID:	MB 280-64896/1-A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Client Matrix:	Solid	Prep Batch:	280-64896	Lab File ID:	05020022.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	05/02/2011 1800	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/29/2011 1732			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	0.59	U	0.59	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	0.18	U	0.18	1.6
Endosulfan II	0.29	U	0.29	1.7
Endosulfan sulfate	0.28	U	0.28	1.7
Endrin	0.30	U	0.30	1.7
Endrin aldehyde	0.17	U	0.17	1.7
Endrin ketone	0.49	U	0.49	1.7
gamma-Chlordane	0.27	U	0.27	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	71	59 - 115
Decachlorobiphenyl	94	63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Lab Control Sample - Batch: 280-64896

Method: 8081A
Preparation: 3550C

Lab Sample ID:	LCS 280-64896/2-A	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Client Matrix:	Solid	Prep Batch:	280-64896	Lab File ID:	05020015.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	05/02/2011 1604	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/29/2011 1732			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	16.6	10.2	62	57 - 118	
4,4'-DDE	16.6	9.50	57	61 - 115	N
4,4'-DDT	16.6	10.2	62	53 - 125	
Aldrin	16.6	13.0	79	60 - 115	
alpha-BHC	16.6	13.0	79	54 - 115	
beta-BHC	16.6	13.5	82	58 - 115	
delta-BHC	16.6	14.7	89	62 - 115	
gamma-BHC (Lindane)	16.6	13.5	82	59 - 115	
Heptachlor	16.6	13.9	84	61 - 115	
Heptachlor epoxide	16.6	14.2	86	62 - 112	
Endosulfan I	16.6	13.5	82	55 - 115	
Endosulfan II	16.6	15.2	92	60 - 115	
Endosulfan sulfate	16.6	15.1	91	58 - 118	
Endrin	16.6	16.0	96	61 - 121	
Endrin aldehyde	16.6	11.1	67	54 - 115	
Endrin ketone	16.6	14.2	85	61 - 118	
gamma-Chlordane	16.6	13.4	81	60 - 115	
Methoxychlor	16.6	13.8	83	52 - 123	
alpha-Chlordane	16.6	12.8	77	60 - 115	
Dieldrin	16.6	14.5	88	63 - 117	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	70	59 - 115
Decachlorobiphenyl	92	63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64896

Method: 8081A
Preparation: 3550C

MS Lab Sample ID:	280-15202-2	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Client Matrix:	Solid	Prep Batch:	280-64896	Lab File ID:	05020018.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	05/02/2011 1654			Final Weight/Volume:	10000 uL
Prep Date:	04/29/2011 1732			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-15202-2	Analysis Batch:	280-65278	Instrument ID:	GCS_P2
Client Matrix:	Solid	Prep Batch:	280-64896	Lab File ID:	05020019.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	05/02/2011 1710			Final Weight/Volume:	10000 uL
Prep Date:	04/29/2011 1732			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,4'-DDD	80	82	57 - 118	3	20		
4,4'-DDE	85	79	61 - 115	6	15		
4,4'-DDT	85	82	53 - 125	3	29		
Aldrin	88	87	60 - 115	0	50		
alpha-BHC	92	91	54 - 115	1	17		
beta-BHC	87	85	58 - 115	2	17		
delta-BHC	90	88	62 - 115	1	19		
gamma-BHC (Lindane)	90	89	59 - 115	1	24		
Heptachlor	90	88	61 - 115	1	18		
Heptachlor epoxide	92	90	62 - 112	1	18		
Endosulfan I	86	85	55 - 115	1	26		
Endosulfan II	89	88	60 - 115	1	20		
Endosulfan sulfate	88	86	58 - 118	2	22		
Endrin	100	99	61 - 121	0	30		
Endrin aldehyde	33	0	54 - 115	NC	29	N	U N
Endrin ketone	82	81	61 - 118	1	20		
gamma-Chlordane	88	85	60 - 115	2	21		
Methoxychlor	85	80	52 - 123	5	23		
alpha-Chlordane	85	85	60 - 115	0	18		
Dieldrin	89	88	63 - 117	1	25		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	95	91	59 - 115
Decachlorobiphenyl	102	94	63 - 124

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Method Blank - Batch: 280-64844

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-64844/1-A	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-64844	Lab File ID:	056F5601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.6 g
Analysis Date:	05/03/2011 1436	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	04/29/2011 1347			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.6	U	2.6	9.5
Aroclor 1221	7.6	U	7.6	16
Aroclor 1232	1.9	U	1.9	9.5
Aroclor 1242	4.4	U	4.4	9.5
Aroclor 1248	4.4	U	4.4	9.5
Aroclor 1254	2.5	U	2.5	9.5
Aroclor 1260	2.5	U	2.5	9.5

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	88	59 - 130
Tetrachloro-m-xylene	100	53 - 128

Lab Control Sample - Batch: 280-64844

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-64844/2-A	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-64844	Lab File ID:	057F5701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	05/03/2011 1508	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	04/29/2011 1347			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	32.1	33.3	104	54 - 132	
Aroclor 1260	32.1	33.0	103	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	94	59 - 130
Tetrachloro-m-xylene	101	53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64844

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-15202-1	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-64844	Lab File ID:	059F5901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	05/03/2011 1612			Final Weight/Volume:	5000 uL
Prep Date:	04/29/2011 1347			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-15202-1	Analysis Batch:	280-65502	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-64844	Lab File ID:	060F6001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	05/03/2011 1644			Final Weight/Volume:	5000 uL
Prep Date:	04/29/2011 1347			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	101	118	54 - 132	16	26		
Aroclor 1260	90	83	62 - 129	7	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	90	73	59 - 130
Tetrachloro-m-xylene	101	96	53 - 128

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Method Blank - Batch: 280-64927

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-64927/1-A	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-64927	Lab File ID:	005F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	05/02/2011 1216	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	980	U	980	3900
C10-C28	670	U	670	3900

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	86	49 - 115

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-64927

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-64927/2-A	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-64927	Lab File ID:	006F0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	05/02/2011 1250	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-64927/18-A	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-64927	Lab File ID:	023F2301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	05/02/2011 2217	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	85	87	57 - 115	4	23		
C10-C28	85	87	53 - 115	4	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	81	90	49 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64927

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-15202-2	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-64927	Lab File ID:	009F0901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	05/02/2011 1432			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-15202-2	Analysis Batch:	280-65329	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-64927	Lab File ID:	010F1001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	05/02/2011 1505			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 2028			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	83	86	57 - 115	3	23		
C10-C28	84	86	56 - 115	3	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	83	85	49 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Method Blank - Batch: 280-64921

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-64921/1-A	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-64921	Lab File ID:	G0502016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	05/03/2011 1824	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	04/29/2011 1907			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Lab Control Sample - Batch: 280-64921

Method: 8310
Preparation: 3550C

Lab Sample ID:	LCS 280-64921/2-A	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-64921	Lab File ID:	G0502017.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.3 g
Analysis Date:	05/03/2011 1855	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	04/29/2011 1907			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1920	1930	101	72 - 115	
Acenaphthylene	1920	1770	92	60 - 115	
Anthracene	1920	1590	83	61 - 115	
Benzo[a]anthracene	1920	2010	105	76 - 115	
Benzo[a]pyrene	1920	1600	83	69 - 115	
Benzo[b]fluoranthene	1920	1960	102	81 - 115	
Benzo[g,h,i]perylene	1920	1870	97	71 - 115	
Benzo[k]fluoranthene	1920	1810	95	85 - 115	
Chrysene	1920	1880	98	70 - 115	
Dibenzo(a,h)anthracene	1920	1880	98	79 - 115	
Fluoranthene	1920	1820	95	67 - 115	
Fluorene	1920	1770	92	72 - 115	
Indeno[1,2,3-cd]pyrene	1920	2020	106	76 - 115	
Naphthalene	1920	1800	94	77 - 115	
Phenanthrene	1920	1810	94	79 - 115	
Pyrene	1920	1810	94	77 - 115	

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	94	72 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64921

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-15202-3	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-64921	Lab File ID:	G0502021.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	05/03/2011 2057			Final Weight/Volume:	4000 uL
Prep Date:	04/29/2011 1907			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-15202-3	Analysis Batch:	280-65271	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-64921	Lab File ID:	G0502022.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.5 g
Analysis Date:	05/03/2011 2127			Final Weight/Volume:	4000 uL
Prep Date:	04/29/2011 1907			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	101	103	72 - 115	1	20		
Acenaphthylene	93	93	60 - 115	3	21		
Anthracene	84	85	61 - 115	3	20		
Benzo[a]anthracene	103	103	76 - 115	2	20		
Benzo[a]pyrene	86	86	69 - 115	3	20		
Benzo[b]fluoranthene	98	100	81 - 115	1	20		
Benzo[g,h,i]perylene	97	98	71 - 115	2	20		
Benzo[k]fluoranthene	95	96	85 - 115	2	20		
Chrysene	95	96	70 - 115	2	20		
Dibenzo(a,h)anthracene	98	99	79 - 115	2	20		
Fluoranthene	95	96	67 - 115	2	20		
Fluorene	93	93	72 - 115	2	20		
Indeno[1,2,3-cd]pyrene	105	105	76 - 115	3	20		
Naphthalene	95	95	77 - 115	2	20		
Phenanthrene	95	95	79 - 115	2	20		
Pyrene	94	95	77 - 115	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	92	93	72 - 115

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Method Blank - Batch: 280-64845

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-64845/1-A	Analysis Batch:	280-65273	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	05/02/2011 2037	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				
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	0.213	B	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	24.04	B	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	4.93	B	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.431	B	0.40	1.0

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Lab Control Sample - Batch: 280-64845

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-64845/2-A	Analysis Batch:	280-65273	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	05/02/2011 2039	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	173.6	87	82 - 116	
Antimony	50.0	45.79	92	82 - 110	
Arsenic	100	92.29	92	85 - 110	
Barium	200	200.3	100	87 - 112	
Beryllium	5.00	4.62	92	84 - 114	
Boron	100	93.18	93	81 - 110	
Cadmium	10.0	10.02	100	87 - 110	
Calcium	5000	4860	97	82 - 114	
Chromium	20.0	17.87	89	84 - 114	
Cobalt	50.0	46.76	94	87 - 110	
Copper	25.0	23.08	92	88 - 110	
Iron	100	97.49	97	87 - 120	
Lead	50.0	46.51	93	86 - 110	
Magnesium	5000	4585	92	90 - 110	
Manganese	50.0	46.23	92	88 - 110	
Molybdenum	100	94.86	95	86 - 110	
Nickel	50.0	44.94	90	87 - 110	
Potassium	5000	4784	96	89 - 110	
Selenium	200	182.0	91	83 - 110	
Silicon	1000	181.7	18	10 - 70	
Silver	5.00	4.56	91	87 - 114	
Sodium	5000	4946	99	90 - 112	
Vanadium	50.0	46.32	93	88 - 110	
Zinc	50.0	46.16	92	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Matrix Spike - Batch: 280-64845

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-15202-1	Analysis Batch:	280-65273	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.14 g
Analysis Date:	05/02/2011 2046	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	8390		183	11040	1451	50 - 200	4
Antimony	0.34	U	45.6	19.59	43	20 - 200	
Arsenic	22.4		91.3	103.6	89	76 - 111	
Barium	82.8		183	264.1	99	52 - 159	
Beryllium	0.12	B	4.56	4.09	87	72 - 105	
Boron	2.4		91.3	79.88	85	75 - 107	
Cadmium	0.34		9.13	9.17	97	40 - 130	
Calcium	3550		4560	8658	112	43 - 165	
Chromium	10.9		18.3	28.50	97	70 - 200	
Cobalt	6.3		45.6	47.03	89	72 - 106	
Copper	12.0		22.8	33.19	93	37 - 187	
Iron	16100		91.3	17500	1505	70 - 200	4
Lead	122		45.6	160.4	85	70 - 200	
Magnesium	3670		4560	8226	100	64 - 145	
Manganese	297		45.6	357.0	132	40 - 200	4
Molybdenum	0.33	B	91.3	78.88	86	75 - 103	
Nickel	10.1		45.6	49.87	87	61 - 126	
Potassium	2120		4560	6659	100	56 - 172	
Selenium	0.77	U	183	158.6	87	76 - 104	
Silicon	241		913	424.4	20	20 - 200	
Silver	0.14	U	4.56	4.11	90	75 - 141	
Sodium	204		4560	4717	99	78 - 111	
Vanadium	32.3		45.6	78.44	101	50 - 169	
Zinc	44.3		45.6	87.52	95	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Duplicate - Batch: 280-64845

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-15202-1	Analysis Batch:	280-65273	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-64845	Lab File ID:	26b050211.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.12 g
Analysis Date:	05/02/2011 2048	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/02/2011 0730				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	8390		8776	4	40	
Antimony	0.34	U	0.35	NC	40	U
Arsenic	22.4		24.26	8	30	
Barium	82.8		83.08	0.3	30	
Beryllium	0.12	B	0.118	1	30	B
Boron	2.4		2.59	8	30	
Cadmium	0.34		0.375	9	30	
Calcium	3550		3752	6	30	
Chromium	10.9		11.31	4	40	
Cobalt	6.3		6.44	2	30	
Copper	12.0		12.65	5	30	
Iron	16100		16550	3	40	
Lead	122		125.7	3	40	
Magnesium	3670		3800	3	30	
Manganese	297		307.7	4	40	
Molybdenum	0.33	B	0.400	20	30	B
Nickel	10.1		10.05	0.7	30	
Potassium	2120		2201	4	40	
Selenium	0.77	U	0.80	NC	30	U
Silicon	241		285.3	17	40	
Silver	0.14	U	0.15	NC	30	U
Sodium	204		211.0	3	30	
Vanadium	32.3		33.49	4	30	
Zinc	44.3		47.75	8	40	

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Method Blank - Batch: 280-64910

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-64910/1-A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/02/2011 1816	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-64910

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-64910/2-A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/03/2011 0817	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.429	103	87 - 111	

Matrix Spike - Batch: 280-64910

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-15202-10	Analysis Batch:	280-65432	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.65 g
Analysis Date:	05/02/2011 1851	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.012	B	0.396	0.381	93	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Duplicate - Batch: 280-64910

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-15202-10	Analysis Batch:	280-65432	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-64910	Lab File ID:	110502AB.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.64 g
Analysis Date:	05/02/2011 1849	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.012	B	0.0140	12	20	B

Client: Washington Closure Hanford

Job Number: 280-15202-1
Sdg Number: JP0174

Duplicate - Batch: 280-64859

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-15202-1	Analysis Batch:	280-64859	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/29/2011 1319	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	3.9	5.2	28	20	M

4.7°; 2.7°; 3.6°; 4.8

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-070	Page 1 of 10

Collector: M. Blankenship / K. Lucas	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8B; Data Turnaround: 21 Days
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling	SAF No.: RC-107	
Ice Chest No.: SML-358	Field Logbook No.: EL 1627-05; COA: 0601512000	Method of Shipment: Government Vehicle/FedEx	
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7970 3902 5110	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG			
No. of Container(s)	1	1	1	5	1	1	1			
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL) + +x	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
~~J1HK38~~	~~SOIL~~	~~4/27/11~~										
~~J1HK39~~	~~SOIL~~	~~4/27/11~~										
~~J1HK40~~	~~SOIL~~	~~4/27/11~~										
~~J1HK41~~	~~SOIL~~	~~4/27/11~~										
J1HK42	SOIL	4/27/11	1045	x	~~x~~ 4-28-11	x	x	x	x	x		

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kevin Lucas	4-27-11 1500	JU Fullmer JU Fullmer	1500 4/27/11
JU Fullmer JU Fullmer	4/27/11 1630	J. E. Ball	1630 4-27-11
J. E. Ball	4-28-11 0835	Fed Ex	
			4-28-11 0930

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)

x 20 mL vial - 2a moisture

xx freeze upon receipt

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

JP0174

REVIEWED BY AJ DATE 4-28-11

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-107-070	Page 1 of 4

Collector: M Blankingship / K Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L 8B	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling		SAF No.: RC-107
Ice Chest No.: SML-358	Field Logbook No.: EL 1627-05	COA: 0601512000	Method of Shipment: Government Vehicle / FedEx
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7970 3902 5110

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG			
No. of Container(s)	1	1	1	5	1	1	1			
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL			

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			
							x x x						
J1HK43	SOIL	4/27/11	1040	x		x	x	x	x	x			
J1HK44	SOIL	4/27/11	1035	x		x	x	x	x	x			
J1HK45	SOIL	4/27/11	1030	x		x	x	x	x	x			
J1HK46	SOIL	4/27/11	1005	x		x	x	x	x	x			
J1HK47	SOIL	4/27/11	0920	x		x	x	x	x	x			

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Klucas Kevin Lucas	4-27-11 1500	JV Fullmer	1500 4/27/11
JV Fullmer	4/27/11 1630	J.E. Bell	1630 4-27-11
J.E. Bell (with)	4-28-11 0835	Fed Ex	
			4/28/11 0830

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)

x 20 mL vial - % moisture

x x freeze upon receipt

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

JP0174

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

REVIEWED BY AJ DATE 4-28-11

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-070	Page 3 of 4

Collector: M. Blankenship / K Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8B	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling		SAF No.: RC-107
Ice Chest No.: SML-358	Field Logbook No.: EL 1627-05	COA: 0601512000	Method of Shipment: Government Vehicle / FedEx
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7970 3902 5110

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C				
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG				
No. of Container(s)	1	1	1	5	1	1	1				
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL				
SAMPLE ANALYSIS	See item (1) in Special Instructions	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081				
				x x							
Sample No. / Matrix * / Sample Date / Sample Time											
J1HK48 / SOIL / 4/27/11 / 0945	x		x	x	x	x	x				
J1HK49 / SOIL / 4/27/11 / 0950	x		x	x	x	x	x				
J1HK50 / SOIL / 4/27/11 / 0910	x		x	x	x	x	x				
J1HK51 / SOIL / 4/27/11 / 0850	x		x	x	x	x	x				
J1HK52 / SOIL / 4/27/11 / 0840	x		x	x	x	x	x				

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: K Lucas Karen Lucas	4-27-11 1500	JV Fullmer	1500 4/27/11
Relinquished By/Removed From: JV Fullmer	1630 4/27/11	Received By/Stored In: J. E. Bahl	1630 4-27-11
Relinquished By/Removed From: J. E. Bahl	0835 4-28-11	Received By/Stored In: Fed Ex	
Relinquished By/Removed From		Received By/Stored In	4/29/11 0830
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)

x 20 mL vial - % moisture

x x freeze upon receipt

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

JP0174

REVIEWED BY AJ DATE 4-28-11

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-107-070	Page 4 of 4

Collector: M. Blankinship / K. Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L 8B	Data Turnaround: 21 Days 7		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling		SAF No.: RC-107
Ice Chest No.: SML-358	Field Logbook No.: EL 1627-05	COA: 0601512000	Method of Shipment: Government Vehicle/FedEx
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7970 3902 5110

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG			
No. of Container(s)	1	1	1	5	1	1	1			
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
J1HK53	SOIL	4/27/11	0825	X		X	X	X	X	X		
J1HK54	SOIL	4/27/11	0920	X		X	X	X	X	X		
~~J1HK55~~	~~SOIL~~											
~~J1HK56~~	~~SOIL~~											
~~J1HK57~~	~~SOIL~~											

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: Lucas Kevin Lucas	4-27-11 1500	Received By/Stored In: JV Fullmer	1500 4/27/11
Relinquished By/Removed From: JV Fullmer	1630 4/27/11	Received By/Stored In: J.E. Berk	1630 4-27-11
Relinquished By/Removed From: J.E. Berk	0835 4-28-11	Received By/Stored In: Fed Ex	
Relinquished By/Removed From		Received By/Stored In	4/28/11 0830
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)

X 20 mL vial - % moisture

XX freeze upon receipt

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

JP0174

REVIEWED BY AJ DATE 4-28-11

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-107-071	Page 1 of 1
Collector: M Blackingship / K Lucas	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: 8L 8B (on 4/27/11)
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling	SAF No.: RC-107	Data Turnaround: 21 Days 7 (on 4/27/11)
Ice Chest No.: SML-358	Field Logbook No.: EL 1627-05; COA: 0601512000	Method of Shipment: Government Vehicle, FedEx	
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver (on 4/27/11)	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7970 3902 5110	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Freeze

Preservation	Freeze										
Type of Container	Gs*										
No. of Container(s)	5										
Volume	40mL										
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL)										
	X										
	X X										

Sample No.	Matrix *	Sample Date	Sample Time										
~~J1HKF5~~	~~SOIL~~						(on 4/27/11)						
J1HKF6	SOIL	4/27/11	0815	X									
~~J1HKF7~~	~~SOIL~~						(on 4/27/11)						
~~J1HKF8~~	~~SOIL~~						(on 4/27/11)						

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: Kenneth Lucas	4-27-11 1500	Received By/Stored In: JV Fullmer	1500 4/27/11
Relinquished By/Removed From: JV Fullmer	1630 4/27/11	Received By/Stored In: J. E. Beck	1630 4-27-11
Relinquished By/Removed From: J. E. Beck	0835 4-28-11	Received By/Stored In: Fed Ex	
Relinquished By/Removed From	Date/Time	Received By/Stored In:	4/29/11 0830
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

x 20 mL vial → % moisture
xx freeze upon receipt
(on 4/27/11)

REVIEWED BY AJ
DATE 4-28-11

JP0174

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

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

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1-13) 4K, 5, 5V, 0
116

Project 28002142 - 60WTR - 3.1.d

Analytical Due:

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

Sample Check-in List

Date/Time Received: 4/29/11 0930 GM Screen Result 13 microR/hr

Client: Washington Closure Hanford SDG #: JP0174 NA[ ] SAF #: RC-107 NA [ ]

Job Number: 15202 Chain of Custody # RC-107-070, 071
AFS-06-003 WCH-11-033 7947004 83076 7970390 25110

Shipping Container ID: SML-358 WCH-11-020 Air Bill # 7947004 83313 7970390 25164

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature °C: 4.7, 2.7, 3.0, 4.8 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: ~~13~~ 14 1157 5/2/11
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): Samples J1HK53 + J1HKF6 received with exceeded hold time for 8260/5035.

Sample Custodian: [signature] Date: 4/29/11

Client Sample ID	Analysis Requested	Condition	Comments/Action
J1HK53	8260	Expired in transit	will proceed with analysis
J1HKF6	8260	Expired in transit	will proceed with analysis

Client Informed on 4/29/11 by MEJ Person Contacted Joan Kessler

[ ] No action necessary; process as is.

Project Manager [signature] Date 5/2/11

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

RICHLAND, WA 99354

FedEx. Express

J1151102250225

Ship Date: 28APR11
ActWgt: 42.0 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 2

FRI - 29 APR A1
PRIORITY OVERNIGHT

TRK# 7947 0048 3076
0201

MASTER

XH WHHA

80002
CO-US
DEN

50DG3/26A8/7EFB

After printing this label:
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2. Fold the printed page along the horizontal line.
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From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 28APR11
ActWgt: 27.0 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

2 of 2

FRI - 29 APR A1
PRIORITY OVERNIGHT

MPS# 7947 0048 3113
0263
Mstr# 7947 0048 3076 0201

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WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 28APR11
ActWgt: 64.0 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

2 of 2

FRI - 29 APR A1
PRIORITY OVERNIGHT

MPS# 7970 3902 5164
0263
Mstr# 7970 3902 5110 0201

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