0097268

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 6/13/11
NITIAL/DATE

COMMENTS:

SDG JP0190 SAF-RC-107

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 128-H-1 Reverification Sampling

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JUN 23 2011
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
JUN 2011

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 35 ***Pages***

Report No.: 46850

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.
JP0190	RC-107	J1JCR9	J1E310462-1	MJWW81AA	9MJWW810	1152066
		J1JCT0	J1E310462-2	MJWW91AA	9MJWW910	1152066
		J1JCT1	J1E310462-3	MJWXA1AA	9MJWXA10	1152066
		J1JCT2	J1E310462-4	MJWXC1AA	9MJWXC10	1152066
		J1JCT3	J1E310462-5	MJWXD1AA	9MJWXD10	1152066
		J1JCT4	J1E310462-6	MJWXE1AA	9MJWXE10	1152066
		J1JCT5	J1E310462-7	MJWXF1AA	9MJWXF10	1152066
		J1JCT6	J1E310462-8	MJWXG1AA	9MJWXG10	1152066
		J1JCT7	J1E310462-9	MJWXH1AA	9MJWXH10	1152066
		J1JCT8	J1E310462-10	MJWXJ1AA	9MJWXJ10	1152066
	RC-107	J1JCT9	J1E310462-11	MJWXK1AA	9MJWXK10	1152066
		J1JCV0	J1E310462-12	MJWXL1AA	9MJWXL10	1152066
		J1JCV1	J1E310462-13	MJWXM1AA	9MJWXM10	1152066

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

June 3, 2011

Attention: Joan Kessner

SAF Number	:	RC-107
Date SDG Closed	:	May 31, 2011
Number of Samples	:	Thirteen (13)
Sample Type	:	Soil
SDG Number	:	JP0190
Data Deliverable	:	7 Day Summary

CASE NARRATIVE

I. Introduction

On May 31, 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
J1JCR9	MJWW8	SOIL	05/31/11
J1JCT0	MJWW9	SOIL	05/31/11
J1JCT1	MJWXA	SOIL	05/31/11
J1JCT2	MJWXC	SOIL	05/31/11
J1JCT3	MJWXD	SOIL	05/31/11
J1JCT4	MJWXE	SOIL	05/31/11
J1JCT5	MJWXF	SOIL	05/31/11
J1JCT6	MJWXG	SOIL	05/31/11
J1JCT7	MJWXH	SOIL	05/31/11
J1JCT8	MJWXJ	SOIL	05/31/11
J1JCT9	MJWXK	SOIL	05/31/11
J1JCV0	MJWXL	SOIL	05/31/11
J1JCV1	MJWXM	SOIL	05/31/11

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 LCS, batch blank, sample, sample duplicate (J1JCR9) and the sample matrix spike (J1JCR9) 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:

for Rhonda Wagar
Project Manager

Drinking Water Method Cross References

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

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

Uncertainty Estimation

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

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

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

Report Definitions

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

Sample Results Summary

Date: 03-Jun-11

TestAmerica TARL

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

Report No. : 46850

SDG No: JP0190

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1152066	7196_CR6								
	J1JCR9								
	MJWW81AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	MJWW81AD	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	3.50E-01	0.0
	J1JCT0								
	MJWW91AA	HEXCHROME	9.17E-01 +- 0.0E+00		mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCT1								
	MJWXA1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCT2								
	MJWXC1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1JCT3								
	MJWXD1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCT4								
	MJWXE1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCT5								
	MJWXF1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCT6								
	MJWXG1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCT7								
	MJWXH1AA	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01	1.55E-01	
	J1JCT8								
	MJWXJ1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1JCT9								
	MJWXK1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCV0								
	MJWXL1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCV1								
	MJWXM1AA	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

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Date: 03-Jun-11

Report No. : 46850

SDG No.: JP0190

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
7196_CR6								
1152066 MATRIX SPIKE, J1JCR9								
MJWW81AC	HEXCHROME	8.59E+00 +- 0.0E+00		mg/kg	N/A	86%	-0.1	1.55E-01
1152066 LCS,								
MJW7C1AC	HEXCHROME	1.86E+01 +- 0.0E+00		mg/kg	N/A	93%	-0.1	1.55E-01
1152066 BLANK QC,								
MJW7C1AA	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: 03-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0190	**Collection Date:**	5/31/2011 8:20:00 AM
Lot-Sample No.:	J1E310462-1	**Report No. :**	46850	**Received Date:**	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCR9	**COC No. :**	RC-107-073	**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: 1152066	7196_CR6			**Work Order:** MJWW81AA			**Report DB ID:** 9MJWW810					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	6/1/11 10:00 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: 03-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0190	**Collection Date:**	5/31/2011 8:30:00 AM
Lot-Sample No.:	J1E310462-2	**Report No. :**	46850	**Received Date:**	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCT0	**COC No. :**	RC-107-073	**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: 1152066	7196_CR6			**Work Order:** MJWW91AA			**Report DB ID:** 9MJWW910					
HEXCHROME	***9.17E-01***			0.0E+00	1.54E-01	mg/kg	N/A	*(6.)*	6/1/11 10:00 a		2.5	
							1.55E-01	*N/A*			9	

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: 03-Jun-11

Lab Name:	TestAmerica	SDG:	JP0190	Collection Date:	5/31/2011 8:40:00 AM
Lot-Sample No.:	J1E310462-3	Report No. :	46850	Received Date:	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCT1	COC No. :	RC-107-073	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: 1152066	7196_CR6			Work Order:	MJWXA1AA		Report DB ID:	9MJWXA10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	6/1/11 10:00 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: 03-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0190	**Collection Date:**	5/31/2011 10:15:00 AM
Lot-Sample No.:	J1E310462-4	**Report No. :**	46850	**Received Date:**	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCT2	**COC No. :**	RC-107-073	**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: 1152066	7196_CR6			**Work Order:** MJWXC1AA			**Report DB ID:** 9MJWXC10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	6/1/11 10:00 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: 03-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0190	**Collection Date:**	5/31/2011 10:00:00 AM
Lot-Sample No.:	J1E310462-5	**Report No. :**	46850	**Received Date:**	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCT3	**COC No. :**	RC-107-073	**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: 1152066	7196_CR6			**Work Order:** MJWXD1AA			**Report DB ID:** 9MJWXD10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	6/1/11 10:00 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: 03-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0190	**Collection Date:**	5/31/2011 9:00:00 AM
Lot-Sample No.:	J1E310462-6	**Report No. :**	46850	**Received Date:**	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCT4	**COC No. :**	RC-107-073	**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: 1152066	7196_CR6			**Work Order:** MJWXE1AA			**Report DB ID:** 9MJWXE10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	6/1/11 10:00 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: 03-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0190	**Collection Date:**	5/31/2011 9:55:00 AM
Lot-Sample No.:	J1E310462-7	**Report No. :**	46850	**Received Date:**	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCT5	**COC No. :**	RC-107-073	**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: 1152066	7196_CR6			**Work Order:** MJWXF1AA			**Report DB ID:** 9MJWXF10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	6/1/11 10:00 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: 03-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0190	**Collection Date:**	5/31/2011 9:05:00 AM
Lot-Sample No.:	J1E310462-8	**Report No. :**	46850	**Received Date:**	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCT6	**COC No. :**	RC-107-073	**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: 1152066	7196_CR6			**Work Order:** MJWXG1AA			**Report DB ID:** 9MJWXG10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	6/1/11 10:00 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: 03-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0190	**Collection Date:**	5/31/2011 9:45:00 AM
Lot-Sample No.:	J1E310462-9	**Report No. :**	46850	**Received Date:**	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCT7	**COC No. :**	RC-107-073	**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: 1152066	7196_CR6			**Work Order:** MJWXH1AA			**Report DB ID:** 9MJWXH10					
HEXCHROME	***1.53E-01***	U		0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	6/1/11 10:00 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: 03-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0190	**Collection Date:**	5/31/2011 9:15:00 AM
Lot-Sample No.:	J1E310462-10	**Report No. :**	46850	**Received Date:**	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCT8	**COC No. :**	RC-107-073	**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: 1152066	7196_CR6			**Work Order:** MJWXJ1AA			**Report DB ID:** 9MJWXJ10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	6/1/11 10:00 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: 03-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0190	**Collection Date:**	5/31/2011 9:25:00 AM
Lot-Sample No.:	J1E310462-11	**Report No. :**	46850	**Received Date:**	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCT9	**COC No. :**	RC-107-073	**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: 1152066	7196_CR6			**Work Order:** MJWXK1AA			**Report DB ID:** 9MJWXK10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	6/1/11 10:00 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: 03-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0190	**Collection Date:**	5/31/2011 9:35:00 AM
Lot-Sample No.:	J1E310462-12	**Report No. :**	46850	**Received Date:**	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCV0	**COC No. :**	RC-107-073	**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: 1152066	7196_CR6			**Work Order:** MJWXL1AA			**Report DB ID:** 9MJWXL10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	6/1/11 10:00 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.

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 03-Jun-11

Lab Name:	TestAmerica	SDG:	JP0190	Collection Date:	5/31/2011 9:00:00 AM
Lot-Sample No.:	J1E310462-13	Report No. :	46850	Received Date:	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCV1	COC No. :	RC-107-073	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: 1152066	7196_CR6			Work Order:	MJWXM1AA		Report DB ID:	9MJWXM10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	6/1/11 10:00 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: 03-Jun-11

Lab Name:	TestAmerica	SDG:	JP0190	Collection Date:	5/31/2011 9:00:00 AM
Lot-Sample No.:	J1E310462-13	Report No. :	46850	Received Date:	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCV1	COC No. :	RC-107-073	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.

TestAmerica Laboratories, Inc.

FORM II

Date: 03-Jun-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0190	**Collection Date:**	5/31/2011 8:20:00 AM
Lot-Sample No.:	J1E310462-1	**Report No. :**	46850	**Received Date:**	5/31/2011 4:15:00 PM
Client Sample ID:	J1JCR9	**COC No. :**	RC-107-073	**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: 1152066	7196_CR6			Work Order: MJWW81AD		Report DB ID: MJWW81ER			Orig Sa DB ID: 9MJWW810			
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	6/1/11 10:00 a		2.5	
	1.55E-01	U	RPD 0.0			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: 03-Jun-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0190

Report No. : 46850

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: 1152066	7196_CR6			Work Order:	MJW7C1AA		Report DB ID:	MJW7C1AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	6/1/11 10:00 a		2.5	
						1.55E-01		N/A			g	

No. of Results: 1 Comments:

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: 03-Jun-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0190

Report No. : 46850

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: 1152066	7196_CR6			Work Order: MJW7C1AC			Report DB ID: MJW7C1AS						
HEXCHROME	1.86E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		93%	6/1/11 10:00 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

TestAmerica Laboratories, Inc.

FORM II

MATRIX SPIKE RESULTS

Date: 03-Jun-11

Lab Name: TestAmerica **SDG:** JP0190

Lot-Sample No.: J1E310462-1, J1JCR9 **Report No. :** 46850 **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: 1152066	Work Order: MJWW81AC			Report DB ID: MJWW81CW			Orig Sa DB ID: 9MJWW810					
HEXCHROME	8.59E+00			0.0E+00	1.55E-01	mg/kg	N/A	85.67%	1.00E+01	6/1/11 10:00 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 BQA.
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): 1152066

Lab Sample Numbers or SDG: **JP0190**

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

Analyst: _____ Date: 6/02/2011

Second-Level Review: _____ Date: 6/02/2011

TestAmerica Laboratories, Inc.

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-073	Page 1 of 3

Collector 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** 128 H-1 Reverification sampling		**SAF No.** RC-107
Ice Chest No. N/A	**Field Logbook No.** EL 1627-05	**COA** 0128H12000	**Method of Shipment** Government Vehicle/FedEx
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.** N/A		**Bill of Lading/Air Bill No.** N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Lot#JIE316462

Special Handling and/or Storage

Cool to 4 deg C

SDG# JP0190
Due 6.7.11

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8083	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
J1JCR9 MJWW8	SOIL	5/31/11	0820		X							
J1JCT0 MJWW9	SOIL	5/31/11	0830		X							
J1JCT1 MJWXA	SOIL	5/31/11	0840		X							
J1JCT2 MJWXC	SOIL	5/31/11	1015		X							
J1JCT3 MJWXD	SOIL	5/31/11	1000		X							

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kareem Lucas	5-31-11 1100	JV Fulton	5/31/11 1100
JV Fulton	5/31/10 1550	A. Freier	5-31-11 1550
A. Freier	5-31-11 1615	TALR Camy Kropa	5-31-11 1615

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 AP DATE 5/31/11

JP0190

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-107-073	Page ~~2 of 6~~ 2 of 3
Collector: 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: 128 H-1 Reverification sampling	SAF No.: RC-107	
Ice Chest No.: N/A	Field Logbook No.: EL 1627-05; COA: 0128H12000	Method of Shipment: Government Vehicle/FedEx	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A	Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Lot#J1E310462
SDG#JP0190
Due 6.7.11

Special Handling and/or Storage

Cool to 4 deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
J1JCT4 MJWXE	SOIL	5/31/11	0900		X							
J1JCT5 MJWXF	SOIL	5/31/11	0955		X							
J1JCT6 MJWXG	SOIL	5/31/11	0905		X							
J1JCT7 MJWXH	SOIL	5/31/11	0945		X							
J1JCT8 MJWXJ	SOIL	5/31/11	0915		X							

CHAIN OF POSSESSION

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K Lucas Kevin Lucas	5-31-11 1100	JV Fullmer	1100 5/31/11
JV Fullmer	5/31/11 1550	A. Freier A. Freier	1550 5-31-11
A. Freier A. Freier	LOCH 5-31-11 1615	TAL Cameron Knapp	1615 5-31-11

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 5/31/11

JP0190

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-107-073	Page 3 of 6

Collector K. Lucas	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH
Price Code 8L	Data Turnaround 21 Days		
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location 128 H-1 Reverification sampling		SAF No. RC-107
Ice Chest No. n/a	Field Logbook No. EL 1627-05	COA 0128H12000	Method of Shipment Government Vehicle/FedEx
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. n/a		Bill of Lading/Air Bill No. n/a

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Lot#J1E310462
SDG#JP0190
Due 6-9-11

Special Handling and/or Storage

Cool to 4 deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
J1JCT9 MJWXK	SOIL	5/31/11	0925		X							
J1JCV0 MJWXL	SOIL	5/31/11	0935		X							
J1JCV1 MJWXM	SOIL	5/31/11	0900		X							
~~J1JCV2~~	~~SOIL~~											
~~J1JCV3~~	~~SOIL~~											

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas	5-31-11 1100	JV Fuller	1100 5/31/11
JV Fuller	5/31/11 1550	A. Freier	1550 5-31-11
A. Freier	5-31-11 1615	Ann Kemmerer-Kruger	1615 5-31-11

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 5/31/11

JP0190

Matrix *

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

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

WCH-EE-011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5.31.11 1615 GM Screen Result (out) .4 (in) .8 Initials [CK]

Client: WCH SDG #: JP0190 NA [ ] SAF #: RC-107 NA [ ]

Work Order Number: JIE310462 Chain of Custody # RC-107-073

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 [ ] No [ ] No Custody Seal [CK]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [CK]
3. Chain of Custody record present? Yes [CK] No [ ]
4. Cooler temperature: _____ 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 @ 1XJAR 60 MLS per
7. Sample holding times exceeded? NA [ ] Yes [ ] No [CK]
8. Samples have:
   CK tape custody seals (soil) — CK hazard labels; CK appropriate sample labels
9. Samples:
   CK are in good condition — Hex Chromes; ____ 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: 5.31.11 1615

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager [signature] Date 6/1/11

LS-023, Rev. 12, 10/10

01/2011 10:39:25 AM

Sample Preparation/Analysis

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

27642, Washington Closure Hanford LLC , DW Alkaline Digestion by method 3060A
Bechtel Hanford, Inc. EA Chromium, Hexavalent (7196A)

AnalyDueDate: 06/07/2011 5I CLIENT: HANFORD

Batch: 1152066 SOIL mg/kg PM, Quote: RW2, 27038

REQ Batch, Test: None All Tests: 1152066 DWEA,

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 MJWW8-1-AA J1E310462-1-SAMP 05/31/2011 08:20		2.5045 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
2 MJWW8-1-AC-S J1E310462-1-MS 05/31/2011 08:20		2.5029 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
3 MJWW8-1-AD-X J1E310462-1-DUP 05/31/2011 08:20		2.5035 pher: 2.5049 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
4 MJWW9-1-AA J1E310462-2-SAMP 05/31/2011 08:30		2.5125 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
5 MJWXA-1-AA J1E310462-3-SAMP 05/31/2011 08:40		2.5148 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
6 MJWXC-1-AA J1E310462-4-SAMP 05/31/2011 10:15		2.5022 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
7 MJWXD-1-AA J1E310462-5-SAMP 05/31/2011 10:00		2.5072 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

TestAmerica Laboratories, Inc.

31/2011 10:39:26 AM

Sample Preparation/Analysis

Balance Id:

27642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

Pipet #:

AnalyDueDate: 06/07/2011

Sep1 DT/Tm Tech:

Batch: 1152066 SOIL mg/kg PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

EQ 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 MJWXE-1-AA J1E310462-6-SAMP 05/31/2011 09:00		2.5133 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
9 MJWXF-1-AA J1E310462-7-SAMP 05/31/2011 09:55		2.5126 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
10 MJWXG-1-AA J1E310462-8-SAMP 05/31/2011 09:05		2.5136 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
11 MJWXH-1-AA J1E310462-9-SAMP 05/31/2011 09:45		2.5224 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
12 MJWXJ-1-AA J1E310462-10-SAMP 05/31/2011 09:15		2.5032 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
13 MJWXK-1-AA J1E310462-11-SAMP 05/31/2011 09:25		2.5195 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
14 MJWXL-1-AA J1E310462-12-SAMP 05/31/2011 09:35		2.5083 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

1/1/2011 10:39:26 AM

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: 06/07/2011

Sep1 DT/Tm Tech:

Batch: 1152066 SOIL mg/kg PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

EQ 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:
15 MJWXM-1-AA J1E310462-13-SAMP 05/31/2011 09:00		2.5087 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
16 MJW7C-1-AA-B J1F010000-66-BLK 06/01/2011 10:39 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
17 MJW7C-1-AC-C J1F010000-66-LCS 06/01/2011 10:39 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments:

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

MJWW81AA-SAMP Constituent List:
  HEXCHROME   RDL:0.1548      mg/kg     LCL:80      UCL:120     RPD:20
MJWW81AC-MS Constituent List:

MJW7C1AA-BLK:

MJW7C1AC-LCS:

MJWW81AA-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MJWW81AC-MS Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MJW7C1AA-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: 06/07/2011

Batch: 1152066 mg/kg
EQ 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:

HW7C1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-16470-1

SDG Number: JP0190

Job Description: SAF# RC-107

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

Attention: Joan H Kessner

RECEIVED
JUN 2011

Approved for release.
Kae E Yoder
Project Manager II
6/10/2011 3:21 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
06/10/2011

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

The Lab Certification ID# is E87667.

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

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

ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-16470-1

SDG #: JP0190
SAF#: RC-107

Date SDG Closed: June 2, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1JCR9	280-16470-1	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCT0	280-16470-2	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCT1	280-16470-3	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCT2	280-16470-4	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCT3	280-16470-5	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCT4	280-16470-6	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCT5	280-16470-7	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCT6	280-16470-8	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCT7	280-16470-9	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCT8	280-16470-10	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCT9	280-16470-11	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCV0	280-16470-12	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCV1	280-16470-13	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A

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 6/2/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 4.2 C and 5.0 C.

GC/MS SEMIVOLATILES - SW846 8270C
Low levels of Bis(2-ethylhexyl) phthalate, a common laboratory contaminant, are present in the method blanks associated with batches 280-70163 and 280-70997. Because the concentrations in the method blanks are not present at levels greater than the reporting limits, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

The MSD aliquot of the MS/MSD performed on sample J1JCR9 in batch 280-70163 exhibited surrogate recoveries outside the control limits. 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
No 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
No anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-70111 indicates that physical and chemical interferences are present for Copper and Zinc. Results have been flagged with an "X".

Low levels of Chromium and Copper are present in the method blank associated with batch 280-70111. 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 J1JCR9; therefore, control limits are not applicable.

Silicon was recovered outside the control limits in the Matrix Spike performed on sample J1JCR9, and the associated sample result has been flagged "N". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

The duplicate analysis of sample J1JCR9 exhibited RPD data outside the control limits for Arsenic and Nickel, and the associated sample results have been flagged "M". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	U	Analyzed for but not detected.
	J	Indicates an Estimated Value for TICs
	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.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	N	Recovery exceeds upper or lower control limits
	M	Sample duplicate precision not met.
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.
HPLC/IC		
	U	Analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Organochlorine Pesticides (GC)	TAL DEN	SW846 8081A	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
Ultrasonic Extraction	TAL DEN		SW846 3550C
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: 280-16470-1
Sdg Number: JP0190

Method	Analyst	Analyst ID
SW846 8270C	Hoffman, Michael G	MGH
SW846 8270C	Kiekel, Daniel C	DCK
SW846 8081A	Ream, Brian E	BER
SW846 8082	Pavlakovich, Adam M	AMP
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Bowen, Heidi E	HEB
SW846 7471A	Niman, Katie M	KMN
ASTM D-2216	Allen, Andrew J	AJA
SW846 8310	Hall, Koley J	KJH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-16470-1	J1JCR9	Solid	05/31/2011 0820	06/02/2011 0930
280-16470-2	J1JCT0	Solid	05/31/2011 0830	06/02/2011 0930
280-16470-3	J1JCT1	Solid	05/31/2011 0840	06/02/2011 0930
280-16470-4	J1JCT2	Solid	05/31/2011 1015	06/02/2011 0930
280-16470-5	J1JCT3	Solid	05/31/2011 1000	06/02/2011 0930
280-16470-6	J1JCT4	Solid	05/31/2011 0900	06/02/2011 0930
280-16470-7	J1JCT5	Solid	05/31/2011 0955	06/02/2011 0930
280-16470-8	J1JCT6	Solid	05/31/2011 0905	06/02/2011 0930
280-16470-9	J1JCT7	Solid	05/31/2011 0945	06/02/2011 0930
280-16470-10	J1JCT8	Solid	05/31/2011 0915	06/02/2011 0930
280-16470-11	J1JCT9	Solid	05/31/2011 0925	06/02/2011 0930
280-16470-12	J1JCV0	Solid	05/31/2011 0935	06/02/2011 0930
280-16470-13	J1JCV1	Solid	05/31/2011 0900	06/02/2011 0930

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCR9**

Lab Sample ID: 280-16470-1
Client Matrix: Solid
% Moisture: 12.7

Date Sampled: 05/31/2011 0820
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70891	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-70627	Lab File ID:	K0615.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	06/07/2011 1614			Final Weight/Volume:	1000 uL
Prep Date:	06/06/2011 1708			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	360
Acenaphthylene		19	U	19	360
Anthracene		19	U	19	360
Benzo[a]anthracene		22	U	22	360
Benzo[a]pyrene		22	U	22	360
Benzo[b]fluoranthene		29	U	29	360
Benzo[ghi]perylene		18	U	18	360
Benzo[k]fluoranthene		44	U	44	360
Bis(2-chloroethoxy)methane		25	U	25	360
Bis(2-chloroethyl)ether		18	U	18	360
bis (2-chloroisopropyl) ether		25	U	25	360
Bis(2-ethylhexyl) phthalate		51	U	51	360
4-Bromophenyl phenyl ether		21	U	21	360
Butyl benzyl phthalate		47	U	47	360
Carbazole		40	U	40	360
4-Chloroaniline		90	U	90	360
4-Chloro-3-methylphenol		72	U	72	360
2-Chloronaphthalene		11	U	11	360
2-Chlorophenol		23	U	23	360
4-Chlorophenyl phenyl ether		23	U	23	360
Chrysene		30	U	30	360
Dibenz(a,h)anthracene		21	U	21	360
Dibenzofuran		22	U	22	360
1,2-Dichlorobenzene		24	U	24	360
1,3-Dichlorobenzene		13	U	13	360
1,4-Dichlorobenzene		15	U	15	360
3,3'-Dichlorobenzidine		99	U	99	720
2,4-Dichlorophenol		11	U	11	360
Diethyl phthalate		29	U	29	360
2,4-Dimethylphenol		72	U	72	360
Dimethyl phthalate		25	U	25	360
Di-n-butyl phthalate		32	U	32	360
4,6-Dinitro-2-methylphenol		360	U	360	720
2,4-Dinitrophenol		370	U	370	910
2,4-Dinitrotoluene		72	U	72	360
2,6-Dinitrotoluene		31	U	31	360
Di-n-octyl phthalate		16	U	16	360
Fluoranthene		40	U	40	360
Fluorene		20	U	20	360
Hexachlorobenzene		32	U	32	360
Hexachlorobutadiene		11	U	11	360
Hexachlorocyclopentadiene		55	U	55	360
Hexachloroethane		23	U	23	360
Indeno[1,2,3-cd]pyrene		24	U	24	360
Isophorone		19	U	19	360
2-Methylnaphthalene		21	U	21	360

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCR9**

Lab Sample ID: 280-16470-1
Client Matrix: Solid
% Moisture: 12.7

Date Sampled: 05/31/2011 0820
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70891	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-70627	Lab File ID:	K0615.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	06/07/2011 1614			Final Weight/Volume:	1000 uL
Prep Date:	06/06/2011 1708			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	360
3 & 4 Methylphenol		36	U	36	360
Naphthalene		34	U	34	360
2-Nitroaniline		55	U	55	360
3-Nitroaniline		80	U	80	360
4-Nitroaniline		80	U	80	360
Nitrobenzene		24	U	24	360
2-Nitrophenol		11	U	11	360
4-Nitrophenol		110	U	110	720
N-Nitrosodi-n-propylamine		34	U	34	360
N-Nitrosodiphenylamine		23	U	23	360
Pentachlorophenol		360	U	360	720
Phenanthrene		19	U	19	360
Phenol		20	U	20	360
Pyrene		13	U	13	360
1,2,4-Trichlorobenzene		31	U	31	360
2,4,5-Trichlorophenol		11	U	11	360
2,4,6-Trichlorophenol		11	U	11	360

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	56		50 - 120
2-Fluorophenol	56		53 - 120
Nitrobenzene-d5	54		50 - 120
Phenol-d5	57		52 - 120
Terphenyl-d14	70		55 - 120
2,4,6-Tribromophenol	52		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCR9**

Lab Sample ID: 280-16470-1
Client Matrix: Solid
% Moisture: 12.7

Date Sampled: 05/31/2011 0820
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70891	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-70627	Lab File ID:	K0615.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	06/07/2011 1614			Final Weight/Volume:	1000 uL
Prep Date:	06/06/2011 1708			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
593-71-5	Chloroiodomethane	1.87	160	N J
141-79-7	3-Penten-2-one, 4-methyl-	2.42	150	N J
	Unknown	2.84	11000	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT0**

Lab Sample ID: 280-16470-2
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 05/31/2011 0830
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70891	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-70627	Lab File ID:	K0616.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	06/07/2011 1634			Final Weight/Volume:	1000 uL
Prep Date:	06/06/2011 1708			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		20	U	20	320
Benzo[a]pyrene		20	U	20	320
Benzo[b]fluoranthene		26	U	26	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		45	U	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		64	U	64	320
2-Chloronaphthalene		9.8	U	9.8	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		20	U	20	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		88	U	88	640
2,4-Dichlorophenol		9.8	U	9.8	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		64	U	64	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	640
2,4-Dinitrophenol		320	U	320	800
2,4-Dinitrotoluene		64	U	64	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.8	U	9.8	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT0**

Lab Sample ID: 280-16470-2
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 05/31/2011 0830
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70891	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-70627	Lab File ID:	K0616.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	06/07/2011 1634			Final Weight/Volume:	1000 uL
Prep Date:	06/06/2011 1708			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.8	U	9.8	320
4-Nitrophenol		95	U	95	640
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	640
Phenanthrene		17	U	17	320
Phenol		18	U	18	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.8	U	9.8	320
2,4,6-Trichlorophenol		9.8	U	9.8	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	60		50 - 120
2-Fluorophenol	53		53 - 120
Nitrobenzene-d5	53		50 - 120
Phenol-d5	58		52 - 120
Terphenyl-d14	66		55 - 120
2,4,6-Tribromophenol	52		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT0**

Lab Sample ID: 280-16470-2
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 05/31/2011 0830
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70891	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-70627	Lab File ID:	K0616.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	06/07/2011 1634			Final Weight/Volume:	1000 uL
Prep Date:	06/06/2011 1708			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
593-71-5	Chloroiodomethane	1.87	130	N J
	Unknown	2.84	8600	N J
	Unknown	11.34	180	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT1**

Lab Sample ID: 280-16470-3
Client Matrix: Solid
% Moisture: 1.9

Date Sampled: 05/31/2011 0840
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4320.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	06/09/2011 1809			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		20	U	20	320
Benzo[a]pyrene		20	U	20	320
Benzo[b]fluoranthene		26	U	26	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		76	J B	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		64	U	64	320
2-Chloronaphthalene		9.8	U	9.8	320
2-Chlorophenol		21	U	21	320
4-Chlorophenyl phenyl ether		21	U	21	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		20	U	20	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		88	U	88	640
2,4-Dichlorophenol		9.8	U	9.8	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		64	U	64	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	640
2,4-Dinitrophenol		330	U	330	810
2,4-Dinitrotoluene		64	U	64	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.8	U	9.8	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT1**

Lab Sample ID: 280-16470-3
Client Matrix: Solid
% Moisture: 1.9

Date Sampled: 05/31/2011 0840
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4320.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	06/09/2011 1809			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.8	U	9.8	320
4-Nitrophenol		95	U	95	640
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		21	U	21	320
Pentachlorophenol		320	U	320	640
Phenanthrene		17	U	17	320
Phenol		18	U	18	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.8	U	9.8	320
2,4,6-Trichlorophenol		9.8	U	9.8	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	79		50 - 120
2-Fluorophenol	80		53 - 120
Nitrobenzene-d5	77		50 - 120
Phenol-d5	80		52 - 120
Terphenyl-d14	102		55 - 120
2,4,6-Tribromophenol	82		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT1**

Lab Sample ID: 280-16470-3
Client Matrix: Solid

% Moisture: 1.9

Date Sampled: 05/31/2011 0840
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4320.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	06/09/2011 1809			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.57	8400	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT2**

Lab Sample ID: 280-16470-4
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1015
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Prep Method:	3550C	Prep Batch:	280-70163	Lab File ID:	B5210.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	06/04/2011 0250			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		74	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	830
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT2**

Lab Sample ID: 280-16470-4
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1015
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Prep Method:	3550C	Prep Batch:	280-70163	Lab File ID:	B5210.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	06/04/2011 0250			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	53		50 - 120
2-Fluorophenol	53		53 - 120
Nitrobenzene-d5	52		50 - 120
Phenol-d5	54		52 - 120
Terphenyl-d14	57		55 - 120
2,4,6-Tribromophenol	58		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT2**

Lab Sample ID: 280-16470-4
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1015
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Prep Method:	3550C	Prep Batch:	280-70163	Lab File ID:	B5210.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	06/04/2011 0250			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.35	6000	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT3**

Lab Sample ID: 280-16470-5
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1000
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Prep Method:	3550C	Prep Batch:	280-70163	Lab File ID:	B5211.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	06/04/2011 0310			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.9	U	9.9	320
Acenaphthylene		16	U	16	320
Anthracene		16	U	16	320
Benzo[a]anthracene		19	U	19	320
Benzo[a]pyrene		19	U	19	320
Benzo[b]fluoranthene		25	U	25	320
Benzo[ghi]perylene		15	U	15	320
Benzo[k]fluoranthene		38	U	38	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		70	J B	44	320
4-Bromophenyl phenyl ether		18	U	18	320
Butyl benzyl phthalate		41	U	41	320
Carbazole		35	U	35	320
4-Chloroaniline		79	U	79	320
4-Chloro-3-methylphenol		63	U	63	320
2-Chloronaphthalene		9.6	U	9.6	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		18	U	18	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		87	U	87	630
2,4-Dichlorophenol		9.6	U	9.6	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		63	U	63	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	630
2,4-Dinitrophenol		320	U	320	790
2,4-Dinitrotoluene		63	U	63	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		17	U	17	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.6	U	9.6	320
Hexachlorocyclopentadiene		48	U	48	320
Hexachloroethane		20	U	20	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		16	U	16	320
2-Methylnaphthalene		18	U	18	320

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT3**

Lab Sample ID: 280-16470-5
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1000
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Prep Method:	3550C	Prep Batch:	280-70163	Lab File ID:	B5211.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	06/04/2011 0310			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		48	U	48	320
3-Nitroaniline		70	U	70	320
4-Nitroaniline		70	U	70	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.6	U	9.6	320
4-Nitrophenol		93	U	93	630
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	630
Phenanthrene		16	U	16	320
Phenol		17	U	17	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.6	U	9.6	320
2,4,6-Trichlorophenol		9.6	U	9.6	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	54		50 - 120
2-Fluorophenol	55		53 - 120
Nitrobenzene-d5	52		50 - 120
Phenol-d5	56		52 - 120
Terphenyl-d14	58		55 - 120
2,4,6-Tribromophenol	58		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT3**

Lab Sample ID: 280-16470-5
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1000
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Prep Method:	3550C	Prep Batch:	280-70163	Lab File ID:	B5211.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	06/04/2011 0310			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.36	5400	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT4**

Lab Sample ID: 280-16470-6
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4321.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	06/09/2011 1828			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		20	U	20	340
Benzo[a]pyrene		20	U	20	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		23	U	23	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		23	U	23	340
Bis(2-ethylhexyl) phthalate		76	J B	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		83	U	83	340
4-Chloro-3-methylphenol		67	U	67	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		27	U	27	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		22	U	22	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		92	U	92	670
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		26	U	26	340
2,4-Dimethylphenol		67	U	67	340
Dimethyl phthalate		23	U	23	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	670
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		67	U	67	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		22	U	22	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT4**

Lab Sample ID: 280-16470-6
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4321.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	06/09/2011 1828			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		74	U	74	340
4-Nitroaniline		74	U	74	340
Nitrobenzene		22	U	22	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		99	U	99	670
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		21	U	21	340
Pentachlorophenol		340	U	340	670
Phenanthrene		17	U	17	340
Phenol		18	U	18	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	78		50 - 120
2-Fluorophenol	82		53 - 120
Nitrobenzene-d5	76		50 - 120
Phenol-d5	81		52 - 120
Terphenyl-d14	102		55 - 120
2,4,6-Tribromophenol	83		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT4**

Lab Sample ID: 280-16470-6
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4321.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	06/09/2011 1828			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.24	160	N J
	Unknown	2.57	9200	N J
	Unknown	10.84	170	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT5**

Lab Sample ID: 280-16470-7
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 05/31/2011 0955
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4322.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	06/09/2011 1847			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		77	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT5**

Lab Sample ID: 280-16470-7
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 05/31/2011 0955
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4322.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	06/09/2011 1847			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	79		50 - 120
2-Fluorophenol	83		53 - 120
Nitrobenzene-d5	79		50 - 120
Phenol-d5	82		52 - 120
Terphenyl-d14	102		55 - 120
2,4,6-Tribromophenol	81		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT5**

Lab Sample ID: 280-16470-7
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 05/31/2011 0955
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4322.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	06/09/2011 1847			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.57	9200	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT6**

Lab Sample ID: 280-16470-8
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 05/31/2011 0905
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4323.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	06/09/2011 1905			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		19	U	19	320
Benzo[a]pyrene		19	U	19	320
Benzo[b]fluoranthene		26	U	26	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		74	J B	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		64	U	64	320
2-Chloronaphthalene		9.7	U	9.7	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		88	U	88	640
2,4-Dichlorophenol		9.7	U	9.7	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		64	U	64	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	640
2,4-Dinitrophenol		320	U	320	800
2,4-Dinitrotoluene		64	U	64	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.7	U	9.7	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT6**

Lab Sample ID: 280-16470-8
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 05/31/2011 0905
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4323.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	06/09/2011 1905			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.7	U	9.7	320
4-Nitrophenol		95	U	95	640
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	640
Phenanthrene		17	U	17	320
Phenol		18	U	18	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.7	U	9.7	320
2,4,6-Trichlorophenol		9.7	U	9.7	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	76		50 - 120
2-Fluorophenol	78		53 - 120
Nitrobenzene-d5	76		50 - 120
Phenol-d5	78		52 - 120
Terphenyl-d14	99		55 - 120
2,4,6-Tribromophenol	81		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT6**

Lab Sample ID: 280-16470-8
Client Matrix: Solid

% Moisture: 1.3

Date Sampled: 05/31/2011 0905
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4323.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	06/09/2011 1905			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.56	6500	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT7**

Lab Sample ID: 280-16470-9
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0945
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4324.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	06/09/2011 1924			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		20	U	20	320
Benzo[a]pyrene		20	U	20	320
Benzo[b]fluoranthene		26	U	26	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		23	U	23	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		23	U	23	320
Bis(2-ethylhexyl) phthalate		75	J B	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		65	U	65	320
2-Chloronaphthalene		9.8	U	9.8	320
2-Chlorophenol		21	U	21	320
4-Chlorophenyl phenyl ether		21	U	21	320
Chrysene		27	U	27	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		20	U	20	320
1,2-Dichlorobenzene		22	U	22	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		88	U	88	650
2,4-Dichlorophenol		9.8	U	9.8	320
Diethyl phthalate		26	U	26	320
2,4-Dimethylphenol		65	U	65	320
Dimethyl phthalate		23	U	23	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	650
2,4-Dinitrophenol		330	U	330	810
2,4-Dinitrotoluene		65	U	65	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.8	U	9.8	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		22	U	22	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT7**

Lab Sample ID: 280-16470-9
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0945
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4324.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	06/09/2011 1924			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	77		50 - 120
2-Fluorophenol	80		53 - 120
Nitrobenzene-d5	75		50 - 120
Phenol-d5	81		52 - 120
Terphenyl-d14	100		55 - 120
2,4,6-Tribromophenol	78		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT7**

Lab Sample ID: 280-16470-9
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0945
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4324.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	06/09/2011 1924			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.56	6800	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT8**

Lab Sample ID: 280-16470-10
Client Matrix: Solid
% Moisture: 2.5

Date Sampled: 05/31/2011 0915
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Prep Method:	3550C	Prep Batch:	280-70163	Lab File ID:	B5216.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	06/04/2011 0447			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		69	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		83	U	83	330
4-Chloro-3-methylphenol		67	U	67	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		91	U	91	670
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		67	U	67	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	670
2,4-Dinitrophenol		340	U	340	830
2,4-Dinitrotoluene		67	U	67	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		15	U	15	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT8**

Lab Sample ID: 280-16470-10
Client Matrix: Solid
% Moisture: 2.5

Date Sampled: 05/31/2011 0915
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Prep Method:	3550C	Prep Batch:	280-70163	Lab File ID:	B5216.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	06/04/2011 0447			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		74	U	74	330
4-Nitroaniline		73	U	73	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		98	U	98	670
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	670
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		16	J	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	58		50 - 120
2-Fluorophenol	57		53 - 120
Nitrobenzene-d5	54		50 - 120
Phenol-d5	58		52 - 120
Terphenyl-d14	63		55 - 120
2,4,6-Tribromophenol	63		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT8**

Lab Sample ID: 280-16470-10
Client Matrix: Solid

% Moisture: 2.5

Date Sampled: 05/31/2011 0915
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Prep Method:	3550C	Prep Batch:	280-70163	Lab File ID:	B5216.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	06/04/2011 0447			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.35	6000	N J
112-95-8	Eicosane	11.91	150	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT9**

Lab Sample ID: 280-16470-11
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 05/31/2011 0925
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4325.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	06/09/2011 1943			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		74	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		83	U	83	330
4-Chloro-3-methylphenol		67	U	67	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		91	U	91	670
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		67	U	67	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	670
2,4-Dinitrophenol		340	U	340	830
2,4-Dinitrotoluene		67	U	67	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		15	U	15	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		51	U	51	330
Hexachloroethane		22	U	22	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT9**

Lab Sample ID: 280-16470-11
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 05/31/2011 0925
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4325.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	06/09/2011 1943			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	76		50 - 120
2-Fluorophenol	78		53 - 120
Nitrobenzene-d5	76		50 - 120
Phenol-d5	77		52 - 120
Terphenyl-d14	100		55 - 120
2,4,6-Tribromophenol	80		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT9**

Lab Sample ID: 280-16470-11
Client Matrix: Solid

% Moisture: 2.7

Date Sampled: 05/31/2011 0925
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4325.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	06/09/2011 1943			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.18	540	N J
	Unknown	2.56	7200	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV0**

Lab Sample ID: 280-16470-12
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0935
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4326.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	06/09/2011 2002			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		16	U	16	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		72	J B	45	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		42	U	42	330
Carbazole		36	U	36	330
4-Chloroaniline		81	U	81	330
4-Chloro-3-methylphenol		65	U	65	330
2-Chloronaphthalene		9.9	U	9.9	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		13	U	13	330
3,3'-Dichlorobenzidine		89	U	89	650
2,4-Dichlorophenol		9.9	U	9.9	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		65	U	65	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	650
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		65	U	65	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		9.9	U	9.9	330
Hexachlorocyclopentadiene		49	U	49	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV0**

Lab Sample ID: 280-16470-12
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0935
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4326.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	06/09/2011 2002			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	76		50 - 120
2-Fluorophenol	79		53 - 120
Nitrobenzene-d5	75		50 - 120
Phenol-d5	79		52 - 120
Terphenyl-d14	101		55 - 120
2,4,6-Tribromophenol	77		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV0**

Lab Sample ID: 280-16470-12
Client Matrix: Solid

% Moisture: 0.8

Date Sampled: 05/31/2011 0935
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-70997	Lab File ID:	D4326.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	06/09/2011 2002			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.56	6800	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV1**

Lab Sample ID: 280-16470-13
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Prep Method:	3550C	Prep Batch:	280-70163	Lab File ID:	B5219.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	06/04/2011 0545			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		16	U	16	320
Anthracene		16	U	16	320
Benzo[a]anthracene		19	U	19	320
Benzo[a]pyrene		19	U	19	320
Benzo[b]fluoranthene		25	U	25	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		66	J B	45	320
4-Bromophenyl phenyl ether		18	U	18	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		79	U	79	320
4-Chloro-3-methylphenol		64	U	64	320
2-Chloronaphthalene		9.7	U	9.7	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		18	U	18	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		87	U	87	640
2,4-Dichlorophenol		9.7	U	9.7	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		64	U	64	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	640
2,4-Dinitrophenol		320	U	320	800
2,4-Dinitrotoluene		64	U	64	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		17	U	17	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.7	U	9.7	320
Hexachlorocyclopentadiene		48	U	48	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		16	U	16	320
2-Methylnaphthalene		18	U	18	320

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV1**

Lab Sample ID: 280-16470-13
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Prep Method:	3550C	Prep Batch:	280-70163	Lab File ID:	B5219.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	06/04/2011 0545			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	55		50 - 120
2-Fluorophenol	53		53 - 120
Nitrobenzene-d5	51		50 - 120
Phenol-d5	55		52 - 120
Terphenyl-d14	59		55 - 120
2,4,6-Tribromophenol	58		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV1**

Lab Sample ID: 280-16470-13
Client Matrix: Solid

% Moisture: 2.7

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Prep Method:	3550C	Prep Batch:	280-70163	Lab File ID:	B5219.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	06/04/2011 0545			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.35	5700	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCR9**

Lab Sample ID: 280-16470-1
Client Matrix: Solid
% Moisture: 12.7

Date Sampled: 05/31/2011 0820
Date Received: 06/02/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-70199	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/06/2011 1245			Injection Volume:	1 uL
Prep Date:	06/02/2011 1845			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.62	U	0.62	1.9
4,4'-DDE		0.27	U	0.27	1.9
4,4'-DDT		0.67	U	0.67	1.9
Aldrin		0.29	U	0.29	1.9
alpha-BHC		0.24	U	0.24	1.9
beta-BHC		0.76	U	0.76	1.9
delta-BHC		0.46	U	0.46	1.9
gamma-BHC (Lindane)		0.53	U	0.53	1.9
Heptachlor		0.24	U	0.24	1.9
Heptachlor epoxide		0.48	U	0.48	1.9
Endosulfan I		0.20	U	0.20	1.9
Endosulfan II		0.33	U	0.33	1.9
Endosulfan sulfate		0.31	U	0.31	1.9
Endrin		0.35	U	0.35	1.9
Endrin aldehyde		0.19	U	0.19	1.9
Endrin ketone		0.56	U	0.56	1.9
gamma-Chlordane		0.30	U	0.30	1.9
Methoxychlor		0.51	U	0.51	3.8
alpha-Chlordane		0.37	U	0.37	1.9
Dieldrin		0.24	U	0.24	1.9
Toxaphene		18	U	18	190

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT0**

Lab Sample ID: 280-16470-2
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 05/31/2011 0830
Date Received: 06/02/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-70199	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/06/2011 1302			Injection Volume:	1 uL
Prep Date:	06/02/2011 1845			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	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	79		59 - 115
Decachlorobiphenyl	66		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT1**

Lab Sample ID: 280-16470-3
Client Matrix: Solid
% Moisture: 1.9

Date Sampled: 05/31/2011 0840
Date Received: 06/02/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-70199	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/06/2011 1318			Injection Volume:	1 uL
Prep Date:	06/02/2011 1845			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.60	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	3.4
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	80		59 - 115
Decachlorobiphenyl	63		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT2**

Lab Sample ID: 280-16470-4
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1015
Date Received: 06/02/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-70199	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/06/2011 1408			Injection Volume:	1 uL
Prep Date:	06/02/2011 1845			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.7
alpha-BHC		0.21	U	0.21	1.7
beta-BHC		0.67	U	0.67	1.7
delta-BHC		0.40	U	0.40	1.7
gamma-BHC (Lindane)		0.47	U	0.47	1.7
Heptachlor		0.21	U	0.21	1.7
Heptachlor epoxide		0.43	U	0.43	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	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		0.49	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	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	89		59 - 115
Decachlorobiphenyl	81		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT3**

Lab Sample ID: 280-16470-5
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1000
Date Received: 06/02/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-70199	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/06/2011 1424			Injection Volume:	1 uL
Prep Date:	06/02/2011 1845			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	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)		0.45	U	0.45	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		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	83		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT4**

Lab Sample ID: 280-16470-6
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-70199	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/06/2011 1441			Injection Volume:	1 uL
Prep Date:	06/02/2011 1845			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.7
alpha-BHC		0.21	U	0.21	1.7
beta-BHC		0.67	U	0.67	1.7
delta-BHC		0.40	U	0.40	1.7
gamma-BHC (Lindane)		0.46	U	0.46	1.7
Heptachlor		0.21	U	0.21	1.7
Heptachlor epoxide		0.43	U	0.43	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	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		0.49	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	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	85		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT5**

Lab Sample ID: 280-16470-7
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 05/31/2011 0955
Date Received: 06/02/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-70199	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/06/2011 1604			Injection Volume:	1 uL
Prep Date:	06/02/2011 1845			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.67	U	0.67	1.7
delta-BHC		0.40	U	0.40	1.7
gamma-BHC (Lindane)		0.47	U	0.47	1.7
Heptachlor		0.22	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		0.49	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	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	88		59 - 115
Decachlorobiphenyl	86		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT6**

Lab Sample ID: 280-16470-8
Client Matrix: Solid

% Moisture: 1.3

Date Sampled: 05/31/2011 0905
Date Received: 06/02/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-70199	Initial Weight/Volume:	31.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/06/2011 1620			Injection Volume:	1 uL
Prep Date:	06/02/2011 1845			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.52	U	0.52	1.6
4,4'-DDE		0.23	U	0.23	1.6
4,4'-DDT		0.57	U	0.57	1.6
Aldrin		0.24	U	0.24	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.64	U	0.64	1.6
delta-BHC		0.38	U	0.38	1.6
gamma-BHC (Lindane)		0.45	U	0.45	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.41	U	0.41	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.6
Endosulfan sulfate		0.26	U	0.26	1.6
Endrin		0.29	U	0.29	1.6
Endrin aldehyde		0.16	U	0.16	1.6
Endrin ketone		0.47	U	0.47	1.6
gamma-Chlordane		0.26	U	0.26	1.6
Methoxychlor		0.43	U	0.43	3.2
alpha-Chlordane		0.31	U	0.31	1.6
Dieldrin		0.20	U	0.20	1.6
Toxaphene		15	U	15	160

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT7**

Lab Sample ID: 280-16470-9
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0945
Date Received: 06/02/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-70199	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/06/2011 1637			Injection Volume:	1 uL
Prep Date:	06/02/2011 1845			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		0.24	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		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.49	U	0.49	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	89		59 - 115
Decachlorobiphenyl	90		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT8**

Lab Sample ID: 280-16470-10
Client Matrix: Solid
% Moisture: 2.5

Date Sampled: 05/31/2011 0915
Date Received: 06/02/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-70199	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/06/2011 1654			Injection Volume:	1 uL
Prep Date:	06/02/2011 1845			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.60	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	76		59 - 115
Decachlorobiphenyl	88		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT9**

Lab Sample ID: 280-16470-11
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 05/31/2011 0925
Date Received: 06/02/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-70199	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/06/2011 1710			Injection Volume:	1 uL
Prep Date:	06/02/2011 1845			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.56	U	0.56	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.61	U	0.61	1.7
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.68	U	0.68	1.7
delta-BHC		0.41	U	0.41	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.18	U	0.18	1.7
Endrin ketone		0.50	U	0.50	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.46	U	0.46	3.4
alpha-Chlordane		0.33	U	0.33	1.7
Dieldrin		0.22	U	0.22	1.7
Toxaphene		16	U	16	170

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV0**

Lab Sample ID: 280-16470-12
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0935
Date Received: 06/02/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-70199	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/06/2011 1727			Injection Volume:	1 uL
Prep Date:	06/02/2011 1845			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		0.24	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		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.49	U	0.49	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	160

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV1**

Lab Sample ID: 280-16470-13
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-70199	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/06/2011 1743			Injection Volume:	1 uL
Prep Date:	06/02/2011 1845			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.67	U	0.67	1.7
delta-BHC		0.40	U	0.40	1.7
gamma-BHC (Lindane)		0.47	U	0.47	1.7
Heptachlor		0.22	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		0.49	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	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	88		59 - 115
Decachlorobiphenyl	87		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCR9**

Lab Sample ID: 280-16470-1
Client Matrix: Solid
% Moisture: 12.7

Date Sampled: 05/31/2011 0820
Date Received: 06/02/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-70212	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/07/2011 1611			Injection Volume:	1 uL
Prep Date:	06/02/2011 2140			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.1	U	3.1	11
Aroclor 1221		9.1	U	9.1	19
Aroclor 1232		2.3	U	2.3	11
Aroclor 1242		5.3	U	5.3	11
Aroclor 1248		5.3	U	5.3	11
Aroclor 1254		2.9	U	2.9	11
Aroclor 1260		2.9	U	2.9	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	80		59 - 130
Tetrachloro-m-xylene	85		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT0**

Lab Sample ID: 280-16470-2
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 05/31/2011 0830
Date Received: 06/02/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-70964	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-70212	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/08/2011 1023			Injection Volume:	1 uL
Prep Date:	06/02/2011 2140			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	60		59 - 130
Tetrachloro-m-xylene	91		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT1**

Lab Sample ID: 280-16470-3
Client Matrix: Solid
% Moisture: 1.9

Date Sampled: 05/31/2011 0840
Date Received: 06/02/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-70212	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/07/2011 1654			Injection Volume:	1 uL
Prep Date:	06/02/2011 2140			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	77		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT2**

Lab Sample ID: 280-16470-4
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1015
Date Received: 06/02/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-70212	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/07/2011 1715			Injection Volume:	1 uL
Prep Date:	06/02/2011 2140			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	16
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.6	U	4.6	10
Aroclor 1248		4.6	U	4.6	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	75		59 - 130
Tetrachloro-m-xylene	91		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT3**

Lab Sample ID: 280-16470-5
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1000
Date Received: 06/02/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-70212	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/07/2011 1737			Injection Volume:	1 uL
Prep Date:	06/02/2011 2140			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.6
Aroclor 1221		7.7	U	7.7	16
Aroclor 1232		1.9	U	1.9	9.6
Aroclor 1242		4.5	U	4.5	9.6
Aroclor 1248		4.5	U	4.5	9.6
Aroclor 1254		2.5	U	2.5	9.6
Aroclor 1260		2.5	U	2.5	9.6

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	63		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT4**

Lab Sample ID: 280-16470-6
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-70212	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/07/2011 1841			Injection Volume:	1 uL
Prep Date:	06/02/2011 2140			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	74		59 - 130
Tetrachloro-m-xylene	86		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT5**

Lab Sample ID: 280-16470-7
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 05/31/2011 0955
Date Received: 06/02/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-70212	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/07/2011 1924			Injection Volume:	1 uL
Prep Date:	06/02/2011 2140			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	82		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT6**

Lab Sample ID: 280-16470-8
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 05/31/2011 0905
Date Received: 06/02/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-70212	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/07/2011 1945			Injection Volume:	1 uL
Prep Date:	06/02/2011 2140			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	82		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT7**

Lab Sample ID: 280-16470-9
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0945
Date Received: 06/02/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-70212	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/07/2011 2007			Injection Volume:	1 uL
Prep Date:	06/02/2011 2140			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	82		59 - 130
Tetrachloro-m-xylene	91		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT8**

Lab Sample ID: 280-16470-10
Client Matrix: Solid
% Moisture: 2.5

Date Sampled: 05/31/2011 0915
Date Received: 06/02/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-70212	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/07/2011 2028			Injection Volume:	1 uL
Prep Date:	06/02/2011 2140			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	81		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT9**

Lab Sample ID: 280-16470-11
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 05/31/2011 0925
Date Received: 06/02/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-70212	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/07/2011 2050			Injection Volume:	1 uL
Prep Date:	06/02/2011 2140			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		4.8	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	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV0**

Lab Sample ID: 280-16470-12
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0935
Date Received: 06/02/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-70212	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/07/2011 2111			Injection Volume:	1 uL
Prep Date:	06/02/2011 2140			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	16
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.6	U	4.6	10
Aroclor 1248		4.6	U	4.6	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	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV1**

Lab Sample ID: 280-16470-13
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-70212	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/07/2011 2133			Injection Volume:	1 uL
Prep Date:	06/02/2011 2140			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	86		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCR9**

Lab Sample ID: 280-16470-1
Client Matrix: Solid
% Moisture: 12.7

Date Sampled: 05/31/2011 0820
Date Received: 06/02/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-70289	Lab File ID:	007F0701.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	06/06/2011 1202			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1100	U	1100	4500
C10-C28		770	U	770	4500

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	77		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT0**

Lab Sample ID: 280-16470-2
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 05/31/2011 0830
Date Received: 06/02/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-70289	Lab File ID:	008F0801.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	06/06/2011 1235			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		380000		990	4000
C10-C28		160000		670	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	56		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT1**

Lab Sample ID: 280-16470-3
Client Matrix: Solid
% Moisture: 1.9

Date Sampled: 05/31/2011 0840
Date Received: 06/02/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-70289	Lab File ID:	009F0901.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	06/06/2011 1309			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	80		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT2**

Lab Sample ID: 280-16470-4
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1015
Date Received: 06/02/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-70289	Lab File ID:	010F1001.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	06/06/2011 1342			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		12000		980	3900
C10-C28		3700	J	670	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	83		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT3**

Lab Sample ID: 280-16470-5
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1000
Date Received: 06/02/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-70289	Lab File ID:	011F1101.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	06/06/2011 1416			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2700	J	990	4000
C10-C28		670	U	670	4000

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT4**

Lab Sample ID: 280-16470-6
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-70289	Lab File ID:	012F1201.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	06/06/2011 1450			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	83		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT5**

Lab Sample ID: 280-16470-7
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 05/31/2011 0955
Date Received: 06/02/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-70289	Lab File ID:	016F1601.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	06/06/2011 1705			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL

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

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT6**

Lab Sample ID: 280-16470-8
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 05/31/2011 0905
Date Received: 06/02/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-70289	Lab File ID:	017F1701.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	06/06/2011 1738			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL

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

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT7**

Lab Sample ID: 280-16470-9
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0945
Date Received: 06/02/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-70289	Lab File ID:	018F1801.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	06/06/2011 1812			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL

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

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT8**

Lab Sample ID: 280-16470-10
Client Matrix: Solid
% Moisture: 2.5

Date Sampled: 05/31/2011 0915
Date Received: 06/02/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-70289	Lab File ID:	019F1901.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	06/06/2011 1845			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	83		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT9**

Lab Sample ID: 280-16470-11
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 05/31/2011 0925
Date Received: 06/02/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-70289	Lab File ID:	020F2001.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	06/06/2011 1918			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	80		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV0**

Lab Sample ID: 280-16470-12
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0935
Date Received: 06/02/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-70289	Lab File ID:	023F2301.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	06/06/2011 2058			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	80		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV1**

Lab Sample ID: 280-16470-13
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-70289	Lab File ID:	024F2401.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	06/06/2011 2131			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		980	U	980	3900
C10-C28		660	U	660	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	77		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCR9**

Lab Sample ID: 280-16470-1
Client Matrix: Solid
% Moisture: 12.7

Date Sampled: 05/31/2011 0820
Date Received: 06/02/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-70195	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	06/06/2011 2125			Injection Volume:	20 uL
Prep Date:	06/02/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		10	U	10	110
Anthracene		3.5	U	3.5	23
Benzo[a]anthracene		3.6	U	3.6	17
Benzo[a]pyrene		7.3	U	7.3	17
Benzo[b]fluoranthene		4.8	U	4.8	17
Benzo[g,h,i]perylene		8.2	U	8.2	34
Benzo[k]fluoranthene		4.5	U	4.5	17
Chrysene		5.5	U	5.5	46
Dibenzo(a,h)anthracene		13	U	13	34
Fluoranthene		15	U	15	46
Fluorene		6.0	U	6.0	34
Indeno[1,2,3-cd]pyrene		14	U	14	34
Naphthalene		14	U	14	110
Phenanthrene		14	U	14	46
Pyrene		14	U	14	46

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	90		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT0**

Lab Sample ID: 280-16470-2
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 05/31/2011 0830
Date Received: 06/02/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-70195	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	06/06/2011 2156			Injection Volume:	20 uL
Prep Date:	06/02/2011 1800			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		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.4	U	6.4	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	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)	94		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT1**

Lab Sample ID: 280-16470-3
Client Matrix: Solid
% Moisture: 1.9

Date Sampled: 05/31/2011 0840
Date Received: 06/02/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-70195	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	06/06/2011 2328			Injection Volume:	20 uL
Prep Date:	06/02/2011 1800			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		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.4	U	6.4	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		3.9	U	3.9	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)	87		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT2**

Lab Sample ID: 280-16470-4
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1015
Date Received: 06/02/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-70195	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	06/06/2011 2358			Injection Volume:	20 uL
Prep Date:	06/02/2011 1800			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		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.4	U	6.4	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	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)	93		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT3**

Lab Sample ID: 280-16470-5
Client Matrix: Solid

% Moisture: 1.0

Date Sampled: 05/31/2011 1000
Date Received: 06/02/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-70195	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	06/07/2011 0029			Injection Volume:	20 uL
Prep Date:	06/02/2011 1800			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		7.2	U	7.2	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: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT4**

Lab Sample ID: 280-16470-6
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-70195	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	06/07/2011 0059			Injection Volume:	20 uL
Prep Date:	06/02/2011 1800			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: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT5**

Lab Sample ID: 280-16470-7
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 05/31/2011 0955
Date Received: 06/02/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-70195	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	06/07/2011 0200			Injection Volume:	20 uL
Prep Date:	06/02/2011 1800			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		3.2	U	3.2	15
Benzo[a]pyrene		6.4	U	6.4	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		4.8	U	4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.3	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: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT6**

Lab Sample ID: 280-16470-8
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 05/31/2011 0905
Date Received: 06/02/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-70195	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	06/07/2011 0231			Injection Volume:	20 uL
Prep Date:	06/02/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.8	U	9.8	98
Acenaphthylene		8.8	U	8.8	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		7.0	U	7.0	29
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		4.7	U	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	39
Fluorene		5.2	U	5.2	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	98
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT7**

Lab Sample ID: 280-16470-9
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0945
Date Received: 06/02/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-70195	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	06/07/2011 0301			Injection Volume:	20 uL
Prep Date:	06/02/2011 1800			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	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	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	93		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT8**

Lab Sample ID: 280-16470-10
Client Matrix: Solid
% Moisture: 2.5

Date Sampled: 05/31/2011 0915
Date Received: 06/02/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-70195	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	06/07/2011 0332			Injection Volume:	20 uL
Prep Date:	06/02/2011 1800			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		12	J	3.3	15
Benzo[a]pyrene		6.6	U	6.6	15
Benzo[b]fluoranthene		13	J	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		15	J	4.9	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		23	J	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		30	J	12	41

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT9**

Lab Sample ID: 280-16470-11
Client Matrix: Solid

% Moisture: 2.7

Date Sampled: 05/31/2011 0925
Date Received: 06/02/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-70195	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	06/07/2011 0402			Injection Volume:	20 uL
Prep Date:	06/02/2011 1800			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		3.2	U	3.2	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)	90		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV0**

Lab Sample ID: 280-16470-12
Client Matrix: Solid

% Moisture: 0.8

Date Sampled: 05/31/2011 0935
Date Received: 06/02/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-70195	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	06/07/2011 0433			Injection Volume:	20 uL
Prep Date:	06/02/2011 1800			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		3.0	U	3.0	19
Benzo[a]anthracene		3.1	U	3.1	15
Benzo[a]pyrene		6.2	U	6.2	15
Benzo[b]fluoranthene		4.1	U	4.1	15
Benzo[g,h,i]perylene		7.0	U	7.0	29
Benzo[k]fluoranthene		3.8	U	3.8	15
Chrysene		4.7	U	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	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		12	U	12	39
Pyrene		12	U	12	39

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV1**

Lab Sample ID: 280-16470-13
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-70195	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	06/07/2011 0503			Injection Volume:	20 uL
Prep Date:	06/02/2011 1800			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		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.4	U	6.4	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		4.8	U	4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.3	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)	89		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCR9**

Lab Sample ID: 280-16470-1
Client Matrix: Solid
% Moisture: 12.7

Date Sampled: 05/31/2011 0820
Date Received: 06/02/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-70515	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	06/03/2011 1931			Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6830		1.7	5.5
Antimony		0.41	U	0.41	0.65
Arsenic		3.7	M	0.72	1.1
Barium		60.7		0.083	0.55
Beryllium		0.036	U	0.036	0.22
Boron		1.1	B	1.1	2.2
Cadmium		0.063	B	0.045	0.22
Calcium		3980		15.4	54.6
Chromium		11.0		0.063	0.22
Cobalt		6.9		0.11	1.1
Copper		15.9	X	0.24	1.1
Iron		16700		4.1	5.5
Lead		3.0		0.29	0.55
Magnesium		4590		4.0	21.8
Manganese		284		0.11	1.1
Molybdenum		0.49	B	0.28	2.2
Nickel		10.6	M	0.13	4.4
Potassium		828		44.7	327
Selenium		0.94	U	0.94	1.1
Silicon		202	N	6.2	10.9
Silver		0.17	U	0.17	0.22
Sodium		226		64.4	131
Vanadium		46.6		0.10	2.2
Zinc		35.1	X	0.43	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	06/03/2011 1652			Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT0**

Lab Sample ID: 280-16470-2
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 05/31/2011 0830
Date Received: 06/02/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-70515	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	06/03/2011 1941			Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5660		1.4	4.4
Antimony		0.33	U	0.33	0.53
Arsenic		2.2		0.58	0.88
Barium		51.4		0.067	0.44
Beryllium		0.029	U	0.029	0.18
Boron		0.98	B	0.86	1.8
Cadmium		0.064	B	0.036	0.18
Calcium		3860		12.4	44.0
Chromium		16.5		0.051	0.18
Cobalt		5.9		0.088	0.88
Copper		15.0	X	0.19	0.88
Iron		13800		3.3	4.4
Lead		4.9		0.24	0.44
Magnesium		4700		3.3	17.6
Manganese		230		0.088	0.88
Molybdenum		0.23	U	0.23	1.8
Nickel		13.6		0.11	3.5
Potassium		789		36.0	264
Selenium		0.76	U	0.76	0.88
Silicon		142		5.0	8.8
Silver		0.14	U	0.14	0.18
Sodium		217		51.9	105
Vanadium		38.1		0.083	1.8
Zinc		34.0	X	0.35	0.88

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	06/03/2011 1659			Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0054	B	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT1**

Lab Sample ID: 280-16470-3
Client Matrix: Solid
% Moisture: 1.9

Date Sampled: 05/31/2011 0840
Date Received: 06/02/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-70515	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	06/03/2011 1944			Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8430		1.5	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		2.5		0.66	1.0
Barium		71.2		0.076	0.50
Beryllium		0.066	B	0.033	0.20
Boron		1.3	B	0.98	2.0
Cadmium		0.086	B	0.041	0.20
Calcium		5060		14.1	49.9
Chromium		10.7		0.058	0.20
Cobalt		7.6		0.10	1.0
Copper		17.4	X	0.22	1.0
Iron		17100		3.8	5.0
Lead		4.2		0.27	0.50
Magnesium		4540		3.7	20.0
Manganese		331		0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		11.9		0.12	4.0
Potassium		1240		41.0	300
Selenium		0.86	U	0.86	1.0
Silicon		279		5.7	10
Silver		0.16	U	0.16	0.20
Sodium		278		58.9	120
Vanadium		41.8		0.094	2.0
Zinc		37.5	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	06/03/2011 1701			Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0063	B	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT2**

Lab Sample ID: 280-16470-4
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1015
Date Received: 06/02/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-70515	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	06/03/2011 1946			Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5420		1.4	4.6
Antimony		0.35	U	0.35	0.56
Arsenic		1.7		0.61	0.93
Barium		49.7		0.070	0.46
Beryllium		0.031	U	0.031	0.19
Boron		0.91	U	0.91	1.9
Cadmium		0.041	B	0.038	0.19
Calcium		3440		13.1	46.3
Chromium		9.7		0.054	0.19
Cobalt		5.8		0.093	0.93
Copper		13.6	X	0.20	0.93
Iron		13700		3.5	4.6
Lead		2.6		0.25	0.46
Magnesium		4030		3.4	18.5
Manganese		225		0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		9.1		0.11	3.7
Potassium		635		38.0	278
Selenium		0.80	U	0.80	0.93
Silicon		116		5.2	9.3
Silver		0.15	U	0.15	0.19
Sodium		200		54.7	111
Vanadium		37.8		0.087	1.9
Zinc		29.8	X	0.37	0.93

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	06/03/2011 1704			Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0072	B	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT3**

Lab Sample ID: 280-16470-5
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 05/31/2011 1000
Date Received: 06/02/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-70515	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	06/03/2011 1949			Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5380		1.3	4.4
Antimony		0.33	U	0.33	0.52
Arsenic		4.1		0.57	0.87
Barium		52.6		0.066	0.44
Beryllium		0.029	U	0.029	0.17
Boron		0.85	U	0.85	1.7
Cadmium		0.041	B	0.036	0.17
Calcium		3720		12.3	43.5
Chromium		9.4		0.050	0.17
Cobalt		5.1		0.087	0.87
Copper		21.9	X	0.19	0.87
Iron		12800		3.3	4.4
Lead		6.5		0.24	0.44
Magnesium		3850		3.2	17.4
Manganese		203		0.087	0.87
Molybdenum		0.23	U	0.23	1.7
Nickel		9.9		0.11	3.5
Potassium		716		35.7	261
Selenium		0.75	U	0.75	0.87
Silicon		138		4.9	8.7
Silver		0.14	U	0.14	0.17
Sodium		185		51.4	104
Vanadium		36.0		0.082	1.7
Zinc		30.9	X	0.35	0.87

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	06/03/2011 1706			Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT4**

Lab Sample ID: 280-16470-6
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-70515	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0			Initial Weight/Volume:	1.20 g
Analysis Date:	06/03/2011 2001			Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9290		1.3	4.3
Antimony		0.33	U	0.33	0.52
Arsenic		5.9		0.57	0.86
Barium		88.2		0.065	0.43
Beryllium		0.16	B	0.028	0.17
Boron		2.8		0.84	1.7
Cadmium		0.11	B	0.035	0.17
Calcium		3300		12.1	43.0
Chromium		12.4		0.050	0.17
Cobalt		6.8		0.086	0.86
Copper		13.2	X	0.19	0.86
Iron		16700		3.3	4.3
Lead		5.7		0.23	0.43
Magnesium		4260		3.2	17.2
Manganese		324		0.086	0.86
Molybdenum		0.22	U	0.22	1.7
Nickel		11.4		0.11	3.4
Potassium		2720		35.3	258
Selenium		0.74	U	0.74	0.86
Silicon		99.9		4.9	8.6
Silver		0.14	U	0.14	0.17
Sodium		217		50.7	103
Vanadium		35.9		0.081	1.7
Zinc		39.6	X	0.34	0.86

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	06/03/2011 1708			Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0076	B	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT5**

Lab Sample ID: 280-16470-7
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 05/31/2011 0955
Date Received: 06/02/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-70515	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	06/03/2011 2004			Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5550		1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		3.1		0.64	0.96
Barium		52.6		0.073	0.48
Beryllium		0.032	U	0.032	0.19
Boron		0.94	U	0.94	1.9
Cadmium		0.048	B	0.040	0.19
Calcium		2950		13.6	48.2
Chromium		10.8		0.056	0.19
Cobalt		5.2		0.096	0.96
Copper		14.2	X	0.21	0.96
Iron		13100		3.7	4.8
Lead		8.1		0.26	0.48
Magnesium		3760		3.6	19.3
Manganese		197		0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		9.4		0.12	3.9
Potassium		745		39.5	289
Selenium		0.83	U	0.83	0.96
Silicon		125		5.5	9.6
Silver		0.15	U	0.15	0.19
Sodium		175		56.9	116
Vanadium		36.3		0.091	1.9
Zinc		31.8	X	0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	06/03/2011 1710			Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.011	B	0.0049	0.015

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT6**

Lab Sample ID: 280-16470-8
Client Matrix: Solid
% Moisture: 1.3

Date Sampled: 05/31/2011 0905
Date Received: 06/02/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-70515	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	06/03/2011 2006			Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8550		1.4	4.6
Antimony		0.35	U	0.35	0.56
Arsenic		2.9		0.61	0.93
Barium		70.7		0.071	0.46
Beryllium		0.13	B	0.031	0.19
Boron		1.3	B	0.91	1.9
Cadmium		0.076	B	0.038	0.19
Calcium		5340		13.1	46.5
Chromium		13.3		0.054	0.19
Cobalt		6.3		0.093	0.93
Copper		13.1	X	0.20	0.93
Iron		15600		3.5	4.6
Lead		4.9		0.25	0.46
Magnesium		4810		3.4	18.6
Manganese		266		0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		12.3		0.11	3.7
Potassium		1610		38.1	279
Selenium		0.80	U	0.80	0.93
Silicon		241		5.3	9.3
Silver		0.15	U	0.15	0.19
Sodium		214		54.9	112
Vanadium		35.6		0.087	1.9
Zinc		39.0	X	0.37	0.93

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	06/03/2011 1717			Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT7**

Lab Sample ID: 280-16470-9
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0945
Date Received: 06/02/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-70515	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	06/03/2011 2009			Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6130		1.5	4.8
Antimony		0.36	U	0.36	0.58
Arsenic		2.7		0.63	0.96
Barium		49.8		0.073	0.48
Beryllium		0.032	U	0.032	0.19
Boron		0.94	U	0.94	1.9
Cadmium		0.039	U	0.039	0.19
Calcium		3610		13.5	48.0
Chromium		11.0		0.056	0.19
Cobalt		5.7		0.096	0.96
Copper		14.5	X	0.21	0.96
Iron		14800		3.6	4.8
Lead		4.5		0.26	0.48
Magnesium		4020		3.6	19.2
Manganese		201		0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		10.2		0.12	3.8
Potassium		805		39.4	288
Selenium		0.83	U	0.83	0.96
Silicon		184		5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		196		56.6	115
Vanadium		41.0		0.090	1.9
Zinc		31.5	X	0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	06/03/2011 1720			Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT8**

Lab Sample ID: 280-16470-10
Client Matrix: Solid
% Moisture: 2.5

Date Sampled: 05/31/2011 0915
Date Received: 06/02/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-70515	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	06/03/2011 2011			Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7920		1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		4.5		0.64	0.97
Barium		74.0		0.074	0.48
Beryllium		0.11	B	0.032	0.19
Boron		1.6	B	0.95	1.9
Cadmium		0.083	B	0.040	0.19
Calcium		3470		13.6	48.4
Chromium		11.8		0.056	0.19
Cobalt		5.8		0.097	0.97
Copper		10.7	X	0.21	0.97
Iron		14700		3.7	4.8
Lead		11.6		0.26	0.48
Magnesium		3820		3.6	19.4
Manganese		251		0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		10.6		0.12	3.9
Potassium		1630		39.7	290
Selenium		0.83	U	0.83	0.97
Silicon		197		5.5	9.7
Silver		0.15	U	0.15	0.19
Sodium		198		57.1	116
Vanadium		33.8		0.091	1.9
Zinc		34.1	X	0.39	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	06/03/2011 1722			Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCT9**

Lab Sample ID: 280-16470-11
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 05/31/2011 0925
Date Received: 06/02/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-70515	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	06/03/2011 2014			Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6660		1.5	4.8
Antimony		0.36	U	0.36	0.58
Arsenic		2.5		0.63	0.96
Barium		41.6		0.073	0.48
Beryllium		0.068	B	0.032	0.19
Boron		0.94	U	0.94	1.9
Cadmium		0.042	B	0.039	0.19
Calcium		5970		13.5	48.0
Chromium		12.8		0.056	0.19
Cobalt		5.6		0.096	0.96
Copper		16.1	X	0.21	0.96
Iron		14100		3.6	4.8
Lead		3.2		0.26	0.48
Magnesium		4210		3.6	19.2
Manganese		212		0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		11.0		0.12	3.8
Potassium		938		39.4	288
Selenium		0.83	U	0.83	0.96
Silicon		167		5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		192		56.7	115
Vanadium		37.3		0.090	1.9
Zinc		31.2	X	0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	06/03/2011 1724			Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0062	B	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV0**

Lab Sample ID: 280-16470-12
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 05/31/2011 0935
Date Received: 06/02/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-70515	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	06/03/2011 2016			Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5790		1.6	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		1.7		0.67	1.0
Barium		43.6		0.077	0.50
Beryllium		0.033	U	0.033	0.20
Boron		0.99	U	0.99	2.0
Cadmium		0.045	B	0.041	0.20
Calcium		3480		14.2	50.4
Chromium		9.6		0.058	0.20
Cobalt		6.6		0.10	1.0
Copper		15.9	X	0.22	1.0
Iron		15200		3.8	5.0
Lead		2.8		0.27	0.50
Magnesium		4230		3.7	20.2
Manganese		236		0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		9.8		0.12	4.0
Potassium		710		41.3	302
Selenium		0.87	U	0.87	1.0
Silicon		147		5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		206		59.5	121
Vanadium		44.0		0.095	2.0
Zinc		37.0	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	06/03/2011 1727			Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Client Sample ID: **J1JCV1**

Lab Sample ID: 280-16470-13
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-70515	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	06/03/2011 2019			Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9810		1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		6.0		0.64	0.97
Barium		87.8		0.074	0.48
Beryllium		0.17	B	0.032	0.19
Boron		2.7		0.95	1.9
Cadmium		0.11	B	0.040	0.19
Calcium		3340		13.7	48.5
Chromium		13.5		0.056	0.19
Cobalt		6.9		0.097	0.97
Copper		13.2	X	0.21	0.97
Iron		17300		3.7	4.8
Lead		5.4		0.26	0.48
Magnesium		4380		3.6	19.4
Manganese		310		0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		11.7		0.12	3.9
Potassium		2790		39.8	291
Selenium		0.83	U	0.83	0.97
Silicon		215		5.5	9.7
Silver		0.16	U	0.16	0.19
Sodium		214		57.2	116
Vanadium		38.0		0.091	1.9
Zinc		40.5	X	0.39	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	06/03/2011 1729			Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.074		0.0057	0.017

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

General Chemistry

Client Sample ID: **J1JCR9**

Lab Sample ID: 280-16470-1
Client Matrix: Solid

Date Sampled: 05/31/2011 0820
Date Received: 06/02/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-70305 Analysis Date: 06/03/2011 1047 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

General Chemistry

Client Sample ID: **J1JCT0**

Lab Sample ID: 280-16470-2
Client Matrix: Solid

Date Sampled: 05/31/2011 0830
Date Received: 06/02/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-70305 Analysis Date: 06/03/2011 1047 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

General Chemistry

Client Sample ID: **J1JCT1**

Lab Sample ID: 280-16470-3
Client Matrix: Solid

Date Sampled: 05/31/2011 0840
Date Received: 06/02/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.9		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-70305 Analysis Date: 06/03/2011 1047 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

General Chemistry

Client Sample ID: **J1JCT2**

Lab Sample ID: 280-16470-4
Client Matrix: Solid

Date Sampled: 05/31/2011 1015
Date Received: 06/02/2011 0930

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

Analysis Batch: 280-70305 Analysis Date: 06/03/2011 1047 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

General Chemistry

Client Sample ID: **J1JCT3**

Lab Sample ID: 280-16470-5
Client Matrix: Solid

Date Sampled: 05/31/2011 1000
Date Received: 06/02/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.97		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-70305 Analysis Date: 06/03/2011 1047 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

General Chemistry

Client Sample ID: **J1JCT4**

Lab Sample ID: 280-16470-6
Client Matrix: Solid

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-70305 Analysis Date: 06/03/2011 1047 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

General Chemistry

Client Sample ID: **J1JCT5**

Lab Sample ID: 280-16470-7
Client Matrix: Solid

Date Sampled: 05/31/2011 0955
Date Received: 06/02/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-70305 Analysis Date: 06/03/2011 1047 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

General Chemistry

Client Sample ID: **J1JCT6**

Lab Sample ID: 280-16470-8
Client Matrix: Solid

Date Sampled: 05/31/2011 0905
Date Received: 06/02/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-70305 Analysis Date: 06/03/2011 1047 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

General Chemistry

Client Sample ID: **J1JCT7**

Lab Sample ID: 280-16470-9
Client Matrix: Solid

Date Sampled: 05/31/2011 0945
Date Received: 06/02/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.78		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-70305 Analysis Date: 06/03/2011 1047 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

General Chemistry

Client Sample ID: **J1JCT8**

Lab Sample ID: 280-16470-10
Client Matrix: Solid

Date Sampled: 05/31/2011 0915
Date Received: 06/02/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-70305 Analysis Date: 06/03/2011 1047 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

General Chemistry

Client Sample ID: **J1JCT9**

Lab Sample ID: 280-16470-11
Client Matrix: Solid

Date Sampled: 05/31/2011 0925
Date Received: 06/02/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-70305 Analysis Date: 06/03/2011 1047 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

General Chemistry

Client Sample ID: **J1JCV0**

Lab Sample ID: 280-16470-12
Client Matrix: Solid

Date Sampled: 05/31/2011 0935
Date Received: 06/02/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.76		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-70305 Analysis Date: 06/03/2011 1047 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

General Chemistry

Client Sample ID: **J1JCV1**

Lab Sample ID: 280-16470-13
Client Matrix: Solid

Date Sampled: 05/31/2011 0900
Date Received: 06/02/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-70305 Analysis Date: 06/03/2011 1047 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-70163					
LCS 280-70163/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-70163/1-A	Method Blank	T	Solid	3550C	
280-16470-C-1-B MSMS	Matrix Spike	T	Solid	3550C	
280-16470-C-1-C MSDMSD	Matrix Spike Duplicate	T	Solid	3550C	
280-16470-4	J1JCT2	T	Solid	3550C	
280-16470-5	J1JCT3	T	Solid	3550C	
280-16470-10	J1JCT8	T	Solid	3550C	
280-16470-13	J1JCV1	T	Solid	3550C	
Analysis Batch:280-70584					
LCS 280-70163/2-A	Lab Control Sample	T	Solid	8270C	280-70163
MB 280-70163/1-A	Method Blank	T	Solid	8270C	280-70163
280-16470-C-1-B MSMS	Matrix Spike	T	Solid	8270C	280-70163
280-16470-C-1-C MSDMSD	Matrix Spike Duplicate	T	Solid	8270C	280-70163
280-16470-4	J1JCT2	T	Solid	8270C	280-70163
280-16470-5	J1JCT3	T	Solid	8270C	280-70163
280-16470-10	J1JCT8	T	Solid	8270C	280-70163
280-16470-13	J1JCV1	T	Solid	8270C	280-70163
Prep Batch: 280-70627					
LCS 280-70627/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-70627/1-A	Method Blank	T	Solid	3550C	
280-16470-1	J1JCR9	T	Solid	3550C	
280-16470-2	J1JCT0	T	Solid	3550C	
280-16470-2MS	Matrix Spike	T	Solid	3550C	
280-16470-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:280-70891					
LCS 280-70627/2-A	Lab Control Sample	T	Solid	8270C	280-70627
MB 280-70627/1-A	Method Blank	T	Solid	8270C	280-70627
280-16470-1	J1JCR9	T	Solid	8270C	280-70627
280-16470-2	J1JCT0	T	Solid	8270C	280-70627
280-16470-2MS	Matrix Spike	T	Solid	8270C	280-70627
280-16470-2MSD	Matrix Spike Duplicate	T	Solid	8270C	280-70627

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-70997					
LCS 280-70997/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-70997/1-A	Method Blank	T	Solid	3550C	
280-16470-3	J1JCT1	T	Solid	3550C	
280-16470-6	J1JCT4	T	Solid	3550C	
280-16470-7	J1JCT5	T	Solid	3550C	
280-16470-7MS	Matrix Spike	T	Solid	3550C	
280-16470-7MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-16470-8	J1JCT6	T	Solid	3550C	
280-16470-9	J1JCT7	T	Solid	3550C	
280-16470-11	J1JCT9	T	Solid	3550C	
280-16470-12	J1JCV0	T	Solid	3550C	
Analysis Batch:280-71302					
LCS 280-70997/2-A	Lab Control Sample	T	Solid	8270C	280-70997
MB 280-70997/1-A	Method Blank	T	Solid	8270C	280-70997
280-16470-3	J1JCT1	T	Solid	8270C	280-70997
280-16470-6	J1JCT4	T	Solid	8270C	280-70997
280-16470-7	J1JCT5	T	Solid	8270C	280-70997
280-16470-7MS	Matrix Spike	T	Solid	8270C	280-70997
280-16470-7MSD	Matrix Spike Duplicate	T	Solid	8270C	280-70997
280-16470-8	J1JCT6	T	Solid	8270C	280-70997
280-16470-9	J1JCT7	T	Solid	8270C	280-70997
280-16470-11	J1JCT9	T	Solid	8270C	280-70997
280-16470-12	J1JCV0	T	Solid	8270C	280-70997

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-70199					
LCS 280-70199/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-70199/1-A	Method Blank	T	Solid	3550C	
280-16470-1	J1JCR9	T	Solid	3550C	
280-16470-2	J1JCT0	T	Solid	3550C	
280-16470-3	J1JCT1	T	Solid	3550C	
280-16470-3MS	Matrix Spike	T	Solid	3550C	
280-16470-3MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-16470-4	J1JCT2	T	Solid	3550C	
280-16470-5	J1JCT3	T	Solid	3550C	
280-16470-6	J1JCT4	T	Solid	3550C	
280-16470-7	J1JCT5	T	Solid	3550C	
280-16470-8	J1JCT6	T	Solid	3550C	
280-16470-9	J1JCT7	T	Solid	3550C	
280-16470-10	J1JCT8	T	Solid	3550C	
280-16470-11	J1JCT9	T	Solid	3550C	
280-16470-12	J1JCV0	T	Solid	3550C	
280-16470-13	J1JCV1	T	Solid	3550C	
Prep Batch: 280-70212					
LCS 280-70212/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-70212/1-A	Method Blank	T	Solid	3550C	
280-16470-1	J1JCR9	T	Solid	3550C	
280-16470-2	J1JCT0	T	Solid	3550C	
280-16470-3	J1JCT1	T	Solid	3550C	
280-16470-4	J1JCT2	T	Solid	3550C	
280-16470-5	J1JCT3	T	Solid	3550C	
280-16470-5MS	Matrix Spike	T	Solid	3550C	
280-16470-5MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-16470-6	J1JCT4	T	Solid	3550C	
280-16470-7	J1JCT5	T	Solid	3550C	
280-16470-8	J1JCT6	T	Solid	3550C	
280-16470-9	J1JCT7	T	Solid	3550C	
280-16470-10	J1JCT8	T	Solid	3550C	
280-16470-11	J1JCT9	T	Solid	3550C	
280-16470-12	J1JCV0	T	Solid	3550C	
280-16470-13	J1JCV1	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-70289					
LCS 280-70289/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-70289/1-A	Method Blank	T	Solid	3550C	
280-16470-1	J1JCR9	T	Solid	3550C	
280-16470-2	J1JCT0	T	Solid	3550C	
280-16470-3	J1JCT1	T	Solid	3550C	
280-16470-4	J1JCT2	T	Solid	3550C	
280-16470-5	J1JCT3	T	Solid	3550C	
280-16470-6	J1JCT4	T	Solid	3550C	
280-16470-6MS	Matrix Spike	T	Solid	3550C	
280-16470-6MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-16470-7	J1JCT5	T	Solid	3550C	
280-16470-8	J1JCT6	T	Solid	3550C	
280-16470-9	J1JCT7	T	Solid	3550C	
280-16470-10	J1JCT8	T	Solid	3550C	
280-16470-11	J1JCT9	T	Solid	3550C	
280-16470-11MS	Matrix Spike	T	Solid	3550C	
280-16470-11MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-16470-12	J1JCV0	T	Solid	3550C	
280-16470-13	J1JCV1	T	Solid	3550C	
Analysis Batch:280-70790					
LCS 280-70199/2-A	Lab Control Sample	T	Solid	8081A	280-70199
MB 280-70199/1-A	Method Blank	T	Solid	8081A	280-70199
280-16470-1	J1JCR9	T	Solid	8081A	280-70199
280-16470-2	J1JCT0	T	Solid	8081A	280-70199
280-16470-3	J1JCT1	T	Solid	8081A	280-70199
280-16470-3MS	Matrix Spike	T	Solid	8081A	280-70199
280-16470-3MSD	Matrix Spike Duplicate	T	Solid	8081A	280-70199
280-16470-4	J1JCT2	T	Solid	8081A	280-70199
280-16470-5	J1JCT3	T	Solid	8081A	280-70199
280-16470-6	J1JCT4	T	Solid	8081A	280-70199
280-16470-7	J1JCT5	T	Solid	8081A	280-70199
280-16470-8	J1JCT6	T	Solid	8081A	280-70199
280-16470-9	J1JCT7	T	Solid	8081A	280-70199
280-16470-10	J1JCT8	T	Solid	8081A	280-70199
280-16470-11	J1JCT9	T	Solid	8081A	280-70199
280-16470-12	J1JCV0	T	Solid	8081A	280-70199
280-16470-13	J1JCV1	T	Solid	8081A	280-70199

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-70799					
LCS 280-70289/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-70289
MB 280-70289/1-A	Method Blank	T	Solid	NWTPH-Dx	280-70289
280-16470-1	J1JCR9	T	Solid	NWTPH-Dx	280-70289
280-16470-2	J1JCT0	T	Solid	NWTPH-Dx	280-70289
280-16470-3	J1JCT1	T	Solid	NWTPH-Dx	280-70289
280-16470-4	J1JCT2	T	Solid	NWTPH-Dx	280-70289
280-16470-5	J1JCT3	T	Solid	NWTPH-Dx	280-70289
280-16470-6	J1JCT4	T	Solid	NWTPH-Dx	280-70289
280-16470-6MS	Matrix Spike	T	Solid	NWTPH-Dx	280-70289
280-16470-6MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-70289
280-16470-7	J1JCT5	T	Solid	NWTPH-Dx	280-70289
280-16470-8	J1JCT6	T	Solid	NWTPH-Dx	280-70289
280-16470-9	J1JCT7	T	Solid	NWTPH-Dx	280-70289
280-16470-10	J1JCT8	T	Solid	NWTPH-Dx	280-70289
280-16470-11	J1JCT9	T	Solid	NWTPH-Dx	280-70289
280-16470-11MS	Matrix Spike	T	Solid	NWTPH-Dx	280-70289
280-16470-11MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-70289
280-16470-12	J1JCV0	T	Solid	NWTPH-Dx	280-70289
280-16470-13	J1JCV1	T	Solid	NWTPH-Dx	280-70289
Analysis Batch:280-70904					
280-16470-1	J1JCR9	T	Solid	8082	280-70212
280-16470-3	J1JCT1	T	Solid	8082	280-70212
280-16470-4	J1JCT2	T	Solid	8082	280-70212
280-16470-5	J1JCT3	T	Solid	8082	280-70212
280-16470-5MS	Matrix Spike	T	Solid	8082	280-70212
280-16470-5MSD	Matrix Spike Duplicate	T	Solid	8082	280-70212
280-16470-6	J1JCT4	T	Solid	8082	280-70212
280-16470-7	J1JCT5	T	Solid	8082	280-70212
280-16470-8	J1JCT6	T	Solid	8082	280-70212
280-16470-9	J1JCT7	T	Solid	8082	280-70212
280-16470-10	J1JCT8	T	Solid	8082	280-70212
280-16470-11	J1JCT9	T	Solid	8082	280-70212
280-16470-12	J1JCV0	T	Solid	8082	280-70212
280-16470-13	J1JCV1	T	Solid	8082	280-70212
Analysis Batch:280-70964					
LCS 280-70212/2-A	Lab Control Sample	T	Solid	8082	280-70212
MB 280-70212/1-A	Method Blank	T	Solid	8082	280-70212
280-16470-2	J1JCT0	T	Solid	8082	280-70212

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-70111					
LCS 280-70111/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-70111/1-A	Method Blank	T	Solid	3050B	
280-16470-1	J1JCR9	T	Solid	3050B	
280-16470-1DU	Duplicate	T	Solid	3050B	
280-16470-1MS	Matrix Spike	T	Solid	3050B	
280-16470-2	J1JCT0	T	Solid	3050B	
280-16470-3	J1JCT1	T	Solid	3050B	
280-16470-4	J1JCT2	T	Solid	3050B	
280-16470-5	J1JCT3	T	Solid	3050B	
280-16470-6	J1JCT4	T	Solid	3050B	
280-16470-7	J1JCT5	T	Solid	3050B	
280-16470-8	J1JCT6	T	Solid	3050B	
280-16470-9	J1JCT7	T	Solid	3050B	
280-16470-10	J1JCT8	T	Solid	3050B	
280-16470-11	J1JCT9	T	Solid	3050B	
280-16470-12	J1JCV0	T	Solid	3050B	
280-16470-13	J1JCV1	T	Solid	3050B	
Prep Batch: 280-70252					
LCS 280-70252/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-70252/1-A	Method Blank	T	Solid	7471A	
280-16470-1	J1JCR9	T	Solid	7471A	
280-16470-1DU	Duplicate	T	Solid	7471A	
280-16470-1MS	Matrix Spike	T	Solid	7471A	
280-16470-2	J1JCT0	T	Solid	7471A	
280-16470-3	J1JCT1	T	Solid	7471A	
280-16470-4	J1JCT2	T	Solid	7471A	
280-16470-5	J1JCT3	T	Solid	7471A	
280-16470-6	J1JCT4	T	Solid	7471A	
280-16470-7	J1JCT5	T	Solid	7471A	
280-16470-8	J1JCT6	T	Solid	7471A	
280-16470-9	J1JCT7	T	Solid	7471A	
280-16470-10	J1JCT8	T	Solid	7471A	
280-16470-11	J1JCT9	T	Solid	7471A	
280-16470-12	J1JCV0	T	Solid	7471A	
280-16470-13	J1JCV1	T	Solid	7471A	

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-70455					
LCS 280-70252/2-A	Lab Control Sample	T	Solid	7471A	280-70252
MB 280-70252/1-A	Method Blank	T	Solid	7471A	280-70252
280-16470-1	J1JCR9	T	Solid	7471A	280-70252
280-16470-1DU	Duplicate	T	Solid	7471A	280-70252
280-16470-1MS	Matrix Spike	T	Solid	7471A	280-70252
280-16470-2	J1JCT0	T	Solid	7471A	280-70252
280-16470-3	J1JCT1	T	Solid	7471A	280-70252
280-16470-4	J1JCT2	T	Solid	7471A	280-70252
280-16470-5	J1JCT3	T	Solid	7471A	280-70252
280-16470-6	J1JCT4	T	Solid	7471A	280-70252
280-16470-7	J1JCT5	T	Solid	7471A	280-70252
280-16470-8	J1JCT6	T	Solid	7471A	280-70252
280-16470-9	J1JCT7	T	Solid	7471A	280-70252
280-16470-10	J1JCT8	T	Solid	7471A	280-70252
280-16470-11	J1JCT9	T	Solid	7471A	280-70252
280-16470-12	J1JCV0	T	Solid	7471A	280-70252
280-16470-13	J1JCV1	T	Solid	7471A	280-70252
Analysis Batch:280-70515					
LCS 280-70111/2-A	Lab Control Sample	T	Solid	6010B	280-70111
MB 280-70111/1-A	Method Blank	T	Solid	6010B	280-70111
280-16470-1	J1JCR9	T	Solid	6010B	280-70111
280-16470-1DU	Duplicate	T	Solid	6010B	280-70111
280-16470-1MS	Matrix Spike	T	Solid	6010B	280-70111
280-16470-2	J1JCT0	T	Solid	6010B	280-70111
280-16470-3	J1JCT1	T	Solid	6010B	280-70111
280-16470-4	J1JCT2	T	Solid	6010B	280-70111
280-16470-5	J1JCT3	T	Solid	6010B	280-70111
280-16470-6	J1JCT4	T	Solid	6010B	280-70111
280-16470-7	J1JCT5	T	Solid	6010B	280-70111
280-16470-8	J1JCT6	T	Solid	6010B	280-70111
280-16470-9	J1JCT7	T	Solid	6010B	280-70111
280-16470-10	J1JCT8	T	Solid	6010B	280-70111
280-16470-11	J1JCT9	T	Solid	6010B	280-70111
280-16470-12	J1JCV0	T	Solid	6010B	280-70111
280-16470-13	J1JCV1	T	Solid	6010B	280-70111

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-70305					
280-16470-1	J1JCR9	T	Solid	D-2216	
280-16470-1DU	Duplicate	T	Solid	D-2216	
280-16470-2	J1JCT0	T	Solid	D-2216	
280-16470-3	J1JCT1	T	Solid	D-2216	
280-16470-4	J1JCT2	T	Solid	D-2216	
280-16470-5	J1JCT3	T	Solid	D-2216	
280-16470-6	J1JCT4	T	Solid	D-2216	
280-16470-7	J1JCT5	T	Solid	D-2216	
280-16470-8	J1JCT6	T	Solid	D-2216	
280-16470-9	J1JCT7	T	Solid	D-2216	
280-16470-10	J1JCT8	T	Solid	D-2216	
280-16470-11	J1JCT9	T	Solid	D-2216	
280-16470-12	J1JCV0	T	Solid	D-2216	
280-16470-13	J1JCV1	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-70195					
LCS 280-70195/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-70195/1-A	Method Blank	T	Solid	3550C	
280-16470-1	J1JCR9	T	Solid	3550C	
280-16470-2	J1JCT0	T	Solid	3550C	
280-16470-2MS	Matrix Spike	T	Solid	3550C	
280-16470-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-16470-3	J1JCT1	T	Solid	3550C	
280-16470-4	J1JCT2	T	Solid	3550C	
280-16470-5	J1JCT3	T	Solid	3550C	
280-16470-6	J1JCT4	T	Solid	3550C	
280-16470-7	J1JCT5	T	Solid	3550C	
280-16470-8	J1JCT6	T	Solid	3550C	
280-16470-9	J1JCT7	T	Solid	3550C	
280-16470-10	J1JCT8	T	Solid	3550C	
280-16470-11	J1JCT9	T	Solid	3550C	
280-16470-12	J1JCV0	T	Solid	3550C	
280-16470-13	J1JCV1	T	Solid	3550C	
Analysis Batch:280-70572					
LCS 280-70195/2-A	Lab Control Sample	T	Solid	8310	280-70195
MB 280-70195/1-A	Method Blank	T	Solid	8310	280-70195
280-16470-1	J1JCR9	T	Solid	8310	280-70195
280-16470-2	J1JCT0	T	Solid	8310	280-70195
280-16470-2MS	Matrix Spike	T	Solid	8310	280-70195
280-16470-2MSD	Matrix Spike Duplicate	T	Solid	8310	280-70195
280-16470-3	J1JCT1	T	Solid	8310	280-70195
280-16470-4	J1JCT2	T	Solid	8310	280-70195
280-16470-5	J1JCT3	T	Solid	8310	280-70195
280-16470-6	J1JCT4	T	Solid	8310	280-70195
280-16470-7	J1JCT5	T	Solid	8310	280-70195
280-16470-8	J1JCT6	T	Solid	8310	280-70195
280-16470-9	J1JCT7	T	Solid	8310	280-70195
280-16470-10	J1JCT8	T	Solid	8310	280-70195
280-16470-11	J1JCT9	T	Solid	8310	280-70195
280-16470-12	J1JCV0	T	Solid	8310	280-70195
280-16470-13	J1JCV1	T	Solid	8310	280-70195

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Method Blank - Batch: 280-70163

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-70163/1-A	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Client Matrix:	Solid	Prep Batch:	280-70163	Lab File ID:	B5197.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	06/03/2011 2239	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	10	U	10	330
Acenaphthylene	17	U	17	330
Anthracene	17	U	17	330
Benzo[a]anthracene	20	U	20	330
Benzo[a]pyrene	20	U	20	330
Benzo[b]fluoranthene	26	U	26	330
Benzo[ghi]perylene	16	U	16	330
Benzo[k]fluoranthene	40	U	40	330
Bis(2-chloroethoxy)methane	23	U	23	330
Bis(2-chloroethyl)ether	17	U	17	330
bis (2-chloroisopropyl) ether	23	U	23	330
Bis(2-ethylhexyl) phthalate	66.3	J	46	330
4-Bromophenyl phenyl ether	19	U	19	330
Butyl benzyl phthalate	43	U	43	330
Carbazole	36	U	36	330
4-Chloroaniline	82	U	82	330
4-Chloro-3-methylphenol	66	U	66	330
2-Chloronaphthalene	10	U	10	330
2-Chlorophenol	21	U	21	330
4-Chlorophenyl phenyl ether	21	U	21	330
Chrysene	27	U	27	330
Dibenz(a,h)anthracene	19	U	19	330
Dibenzofuran	20	U	20	330
1,2-Dichlorobenzene	22	U	22	330
1,3-Dichlorobenzene	12	U	12	330
1,4-Dichlorobenzene	14	U	14	330
3,3'-Dichlorobenzidine	90	U	90	660
2,4-Dichlorophenol	10	U	10	330
Diethyl phthalate	26	U	26	330
2,4-Dimethylphenol	66	U	66	330
Dimethyl phthalate	23	U	23	330
Di-n-butyl phthalate	29	U	29	330
4,6-Dinitro-2-methylphenol	330	U	330	660
2,4-Dinitrophenol	330	U	330	830
2,4-Dinitrotoluene	66	U	66	330
2,6-Dinitrotoluene	28	U	28	330
Di-n-octyl phthalate	14	U	14	330
Fluoranthene	36	U	36	330
Fluorene	18	U	18	330
Hexachlorobenzene	29	U	29	330
Hexachlorobutadiene	10	U	10	330
Hexachlorocyclopentadiene	50	U	50	330
Hexachloroethane	21	U	21	330
Indeno[1,2,3-cd]pyrene	22	U	22	330
Isophorone	17	U	17	330

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Method Blank - Batch: 280-70163

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-70163/1-A	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Client Matrix:	Solid	Prep Batch:	280-70163	Lab File ID:	B5197.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	06/03/2011 2239	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	19	U	19	330
2-Methylphenol	13	U	13	330
3 & 4 Methylphenol	33	U	33	330
Naphthalene	31	U	31	330
2-Nitroaniline	50	U	50	330
3-Nitroaniline	73	U	73	330
4-Nitroaniline	73	U	73	330
Nitrobenzene	22	U	22	330
2-Nitrophenol	10	U	10	330
4-Nitrophenol	97	U	97	660
N-Nitrosodi-n-propylamine	31	U	31	330
N-Nitrosodiphenylamine	21	U	21	330
Pentachlorophenol	330	U	330	660
Phenanthrene	17	U	17	330
Phenol	18	U	18	330
Pyrene	12	U	12	330
1,2,4-Trichlorobenzene	28	U	28	330
2,4,5-Trichlorophenol	10	U	10	330
2,4,6-Trichlorophenol	10	U	10	330

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	58	50 - 120
2-Fluorophenol	59	53 - 120
Nitrobenzene-d5	56	50 - 120
Phenol-d5	60	52 - 120
Terphenyl-d14	60	55 - 120
2,4,6-Tribromophenol	61	51 - 120

Method Blank TICs- Batch: 280-70163

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	3.35	6300	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Lab Control Sample - Batch: 280-70163

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-70163/2-A	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Client Matrix:	Solid	Prep Batch:	280-70163	Lab File ID:	B5198.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	06/03/2011 2258	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2670	1960	73	52 - 120	
Anthracene	2670	2070	78	57 - 120	
Carbazole	2670	2080	78	54 - 120	
4-Chloro-3-methylphenol	2670	2120	79	57 - 120	
2-Chlorophenol	2670	2040	76	53 - 120	
1,4-Dichlorobenzene	2670	1810	68	46 - 120	
2,4-Dinitrotoluene	2670	2330	87	53 - 120	
2-Methylnaphthalene	2670	1960	73	55 - 120	
2-Methylphenol	2670	1970	74	51 - 120	
4-Nitrophenol	2670	2340	88	41 - 120	
N-Nitrosodi-n-propylamine	2670	1700	64	51 - 120	
Pentachlorophenol	2670	2200	83	30 - 120	
Phenol	2670	1970	74	54 - 120	
Pyrene	2670	2080	78	50 - 120	
1,2,4-Trichlorobenzene	2670	1800	68	50 - 120	
2,4,6-Trichlorophenol	2670	2190	82	50 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	56	50 - 120
2-Fluorophenol	55	53 - 120
Nitrobenzene-d5	53	50 - 120
Phenol-d5	56	52 - 120
Terphenyl-d14	60	55 - 120
2,4,6-Tribromophenol	65	51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-70163

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-16470-C-1-B MS	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Client Matrix:	Solid	Prep Batch:	280-70163	Lab File ID:	B5206.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	06/04/2011 0133			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-16470-C-1-C MSD	Analysis Batch:	280-70584	Instrument ID:	MSS_B
Client Matrix:	Solid	Prep Batch:	280-70163	Lab File ID:	B5207.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	06/04/2011 0152			Final Weight/Volume:	1000 uL
Prep Date:	06/02/2011 1655			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	73	68	52 - 120	8	30		
Anthracene	78	74	57 - 120	6	30		
Carbazole	78	74	54 - 120	7	30		
4-Chloro-3-methylphenol	81	74	57 - 120	10	30		
2-Chlorophenol	74	68	53 - 120	10	30		
1,4-Dichlorobenzene	67	61	46 - 120	10	30		
2,4-Dinitrotoluene	86	81	53 - 120	6	30		
2-Methylnaphthalene	73	66	55 - 120	10	30		
2-Methylphenol	72	65	51 - 120	10	30		
4-Nitrophenol	82	76	41 - 120	8	30		
N-Nitrosodi-n-propylamine	64	59	51 - 120	8	30		
Pentachlorophenol	74	70	30 - 120	6	30		
Phenol	73	66	54 - 120	11	30		
Pyrene	78	74	50 - 120	6	38		
1,2,4-Trichlorobenzene	66	61	50 - 120	9	30		
2,4,6-Trichlorophenol	81	75	50 - 120	9	30		

Surrogate	MS % Rec	MSD % Rec		Acceptance Limits
2-Fluorobiphenyl	56	51		50 - 120
2-Fluorophenol	54	49	*	53 - 120
Nitrobenzene-d5	52	48	*	50 - 120
Phenol-d5	56	50	*	52 - 120
Terphenyl-d14	60	55		55 - 120
2,4,6-Tribromophenol	64	59		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Method Blank - Batch: 280-70627

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-70627/1-A	Analysis Batch:	280-70891	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-70627	Lab File ID:	K0602.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	06/07/2011 1148	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	06/06/2011 1708			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	10	U	10	320
Acenaphthylene	17	U	17	320
Anthracene	17	U	17	320
Benzo[a]anthracene	20	U	20	320
Benzo[a]pyrene	20	U	20	320
Benzo[b]fluoranthene	26	U	26	320
Benzo[ghi]perylene	16	U	16	320
Benzo[k]fluoranthene	39	U	39	320
Bis(2-chloroethoxy)methane	23	U	23	320
Bis(2-chloroethyl)ether	16	U	16	320
bis (2-chloroisopropyl) ether	23	U	23	320
Bis(2-ethylhexyl) phthalate	45	U	45	320
4-Bromophenyl phenyl ether	19	U	19	320
Butyl benzyl phthalate	42	U	42	320
Carbazole	35	U	35	320
4-Chloroaniline	81	U	81	320
4-Chloro-3-methylphenol	65	U	65	320
2-Chloronaphthalene	9.8	U	9.8	320
2-Chlorophenol	21	U	21	320
4-Chlorophenyl phenyl ether	21	U	21	320
Chrysene	27	U	27	320
Dibenz(a,h)anthracene	19	U	19	320
Dibenzofuran	20	U	20	320
1,2-Dichlorobenzene	22	U	22	320
1,3-Dichlorobenzene	12	U	12	320
1,4-Dichlorobenzene	13	U	13	320
3,3'-Dichlorobenzidine	89	U	89	650
2,4-Dichlorophenol	9.8	U	9.8	320
Diethyl phthalate	26	U	26	320
2,4-Dimethylphenol	65	U	65	320
Dimethyl phthalate	23	U	23	320
Di-n-butyl phthalate	29	U	29	320
4,6-Dinitro-2-methylphenol	320	U	320	650
2,4-Dinitrophenol	330	U	330	810
2,4-Dinitrotoluene	65	U	65	320
2,6-Dinitrotoluene	28	U	28	320
Di-n-octyl phthalate	14	U	14	320
Fluoranthene	35	U	35	320
Fluorene	18	U	18	320
Hexachlorobenzene	29	U	29	320
Hexachlorobutadiene	9.8	U	9.8	320
Hexachlorocyclopentadiene	49	U	49	320
Hexachloroethane	21	U	21	320
Indeno[1,2,3-cd]pyrene	22	U	22	320
Isophorone	17	U	17	320

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Method Blank - Batch: 280-70627

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-70627/1-A	Analysis Batch:	280-70891	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-70627	Lab File ID:	K0602.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	06/07/2011 1148	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	06/06/2011 1708			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	19	U	19	320
2-Methylphenol	13	U	13	320
3 & 4 Methylphenol	32	U	32	320
Naphthalene	30	U	30	320
2-Nitroaniline	49	U	49	320
3-Nitroaniline	72	U	72	320
4-Nitroaniline	71	U	71	320
Nitrobenzene	22	U	22	320
2-Nitrophenol	9.8	U	9.8	320
4-Nitrophenol	95	U	95	650
N-Nitrosodi-n-propylamine	30	U	30	320
N-Nitrosodiphenylamine	21	U	21	320
Pentachlorophenol	320	U	320	650
Phenanthrene	17	U	17	320
Phenol	18	U	18	320
Pyrene	12	U	12	320
1,2,4-Trichlorobenzene	28	U	28	320
2,4,5-Trichlorophenol	9.8	U	9.8	320
2,4,6-Trichlorophenol	9.8	U	9.8	320

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	56	50 - 120
2-Fluorophenol	55	53 - 120
Nitrobenzene-d5	53	50 - 120
Phenol-d5	56	52 - 120
Terphenyl-d14	66	55 - 120
2,4,6-Tribromophenol	55	51 - 120

Method Blank TICs- Batch: 280-70627

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	1.41	133	N J
	Unknown	2.84	8860	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Lab Control Sample - Batch: 280-70627

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-70627/2-A	Analysis Batch:	280-70891	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-70627	Lab File ID:	K0603.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.9 g
Analysis Date:	06/07/2011 1208	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	06/06/2011 1708			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2510	1910	76	52 - 120	
Anthracene	2510	2090	83	57 - 120	
Carbazole	2510	2030	81	54 - 120	
4-Chloro-3-methylphenol	2510	2050	82	57 - 120	
2-Chlorophenol	2510	1800	72	53 - 120	
1,4-Dichlorobenzene	2510	1640	65	46 - 120	
2,4-Dinitrotoluene	2510	2150	86	53 - 120	
2-Methylnaphthalene	2510	1750	70	55 - 120	
2-Methylphenol	2510	1810	72	51 - 120	
4-Nitrophenol	2510	2020	81	41 - 120	
N-Nitrosodi-n-propylamine	2510	1770	71	51 - 120	
Pentachlorophenol	2510	2020	81	30 - 120	
Phenol	2510	1810	72	54 - 120	
Pyrene	2510	2110	84	50 - 120	
1,2,4-Trichlorobenzene	2510	1600	64	50 - 120	
2,4,6-Trichlorophenol	2510	2040	81	50 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	56	50 - 120
2-Fluorophenol	53	53 - 120
Nitrobenzene-d5	50	50 - 120
Phenol-d5	54	52 - 120
Terphenyl-d14	65	55 - 120
2,4,6-Tribromophenol	59	51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-70627

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-16470-2	Analysis Batch:	280-70891	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-70627	Lab File ID:	K0617.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.3 g
Analysis Date:	06/07/2011 1654			Final Weight/Volume:	1000 uL
Prep Date:	06/06/2011 1708			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-16470-2	Analysis Batch:	280-70891	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-70627	Lab File ID:	K0618.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.2 g
Analysis Date:	06/07/2011 1715			Final Weight/Volume:	1000 uL
Prep Date:	06/06/2011 1708			Injection Volume:	0.5 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	85	86	52 - 120	1	30		
Anthracene	88	89	57 - 120	2	30		
Carbazole	84	85	54 - 120	1	30		
4-Chloro-3-methylphenol	88	90	57 - 120	2	30		
2-Chlorophenol	81	79	53 - 120	3	30		
1,4-Dichlorobenzene	70	67	46 - 120	3	30		
2,4-Dinitrotoluene	81	81	53 - 120	1	30		
2-Methylnaphthalene	80	78	55 - 120	2	30		
2-Methylphenol	84	84	51 - 120	0	30		
4-Nitrophenol	70	68	41 - 120	2	30		
N-Nitrosodi-n-propylamine	78	76	51 - 120	2	30		
Pentachlorophenol	58	58	30 - 120	1	30		
Phenol	80	79	54 - 120	1	30		
Pyrene	90	92	50 - 120	3	38		
1,2,4-Trichlorobenzene	71	68	50 - 120	4	30		
2,4,6-Trichlorophenol	87	89	50 - 120	3	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	64	64	50 - 120
2-Fluorophenol	58	56	53 - 120
Nitrobenzene-d5	56	55	50 - 120
Phenol-d5	62	61	52 - 120
Terphenyl-d14	69	71	55 - 120
2,4,6-Tribromophenol	56	59	51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Method Blank - Batch: 280-70997

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-70997/1-A	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-70997	Lab File ID:	D4319.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.9 g
Analysis Date:	06/09/2011 1750	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.7	U	9.7	310
Acenaphthylene	16	U	16	310
Anthracene	16	U	16	310
Benzo[a]anthracene	19	U	19	310
Benzo[a]pyrene	19	U	19	310
Benzo[b]fluoranthene	25	U	25	310
Benzo[ghi]perylene	15	U	15	310
Benzo[k]fluoranthene	38	U	38	310
Bis(2-chloroethoxy)methane	22	U	22	310
Bis(2-chloroethyl)ether	16	U	16	310
bis (2-chloroisopropyl) ether	22	U	22	310
Bis(2-ethylhexyl) phthalate	76.5	J	43	310
4-Bromophenyl phenyl ether	18	U	18	310
Butyl benzyl phthalate	40	U	40	310
Carbazole	34	U	34	310
4-Chloroaniline	77	U	77	310
4-Chloro-3-methylphenol	62	U	62	310
2-Chloronaphthalene	9.4	U	9.4	310
2-Chlorophenol	20	U	20	310
4-Chlorophenyl phenyl ether	20	U	20	310
Chrysene	25	U	25	310
Dibenz(a,h)anthracene	18	U	18	310
Dibenzofuran	19	U	19	310
1,2-Dichlorobenzene	21	U	21	310
1,3-Dichlorobenzene	11	U	11	310
1,4-Dichlorobenzene	13	U	13	310
3,3'-Dichlorobenzidine	85	U	85	620
2,4-Dichlorophenol	9.4	U	9.4	310
Diethyl phthalate	24	U	24	310
2,4-Dimethylphenol	62	U	62	310
Dimethyl phthalate	22	U	22	310
Di-n-butyl phthalate	27	U	27	310
4,6-Dinitro-2-methylphenol	310	U	310	620
2,4-Dinitrophenol	310	U	310	780
2,4-Dinitrotoluene	62	U	62	310
2,6-Dinitrotoluene	26	U	26	310
Di-n-octyl phthalate	14	U	14	310
Fluoranthene	34	U	34	310
Fluorene	17	U	17	310
Hexachlorobenzene	27	U	27	310
Hexachlorobutadiene	9.4	U	9.4	310
Hexachlorocyclopentadiene	47	U	47	310
Hexachloroethane	20	U	20	310
Indeno[1,2,3-cd]pyrene	21	U	21	310
Isophorone	16	U	16	310

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Method Blank - Batch: 280-70997

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-70997/1-A	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-70997	Lab File ID:	D4319.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.9 g
Analysis Date:	06/09/2011 1750	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	18	U	18	310
2-Methylphenol	12	U	12	310
3 & 4 Methylphenol	31	U	31	310
Naphthalene	29	U	29	310
2-Nitroaniline	47	U	47	310
3-Nitroaniline	69	U	69	310
4-Nitroaniline	68	U	68	310
Nitrobenzene	21	U	21	310
2-Nitrophenol	9.4	U	9.4	310
4-Nitrophenol	91	U	91	620
N-Nitrosodi-n-propylamine	29	U	29	310
N-Nitrosodiphenylamine	20	U	20	310
Pentachlorophenol	310	U	310	620
Phenanthrene	16	U	16	310
Phenol	17	U	17	310
Pyrene	11	U	11	310
1,2,4-Trichlorobenzene	26	U	26	310
2,4,5-Trichlorophenol	9.4	U	9.4	310
2,4,6-Trichlorophenol	9.4	U	9.4	310

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	78	50 - 120
2-Fluorophenol	82	53 - 120
Nitrobenzene-d5	78	50 - 120
Phenol-d5	81	52 - 120
Terphenyl-d14	101	55 - 120
2,4,6-Tribromophenol	84	51 - 120

Method Blank TICs- Batch: 280-70997

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	2.57	8570	N J

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Lab Control Sample - Batch: 280-70997

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-70997/2-A	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-70997	Lab File ID:	D4304.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.0 g
Analysis Date:	06/09/2011 1316	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2500	2090	83	52 - 120	
Anthracene	2500	2340	93	57 - 120	
Carbazole	2500	2270	91	54 - 120	
4-Chloro-3-methylphenol	2500	2230	89	57 - 120	
2-Chlorophenol	2500	2100	84	53 - 120	
1,4-Dichlorobenzene	2500	1930	77	46 - 120	
2,4-Dinitrotoluene	2500	2200	88	53 - 120	
2-Methylnaphthalene	2500	2090	84	55 - 120	
2-Methylphenol	2500	2060	82	51 - 120	
4-Nitrophenol	2500	2410	96	41 - 120	
N-Nitrosodi-n-propylamine	2500	2060	82	51 - 120	
Pentachlorophenol	2500	2020	81	30 - 120	
Phenol	2500	2110	84	54 - 120	
Pyrene	2500	2460	99	50 - 120	
1,2,4-Trichlorobenzene	2500	1820	73	50 - 120	
2,4,6-Trichlorophenol	2500	2210	88	50 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	84	50 - 120
2-Fluorophenol	86	53 - 120
Nitrobenzene-d5	81	50 - 120
Phenol-d5	84	52 - 120
Terphenyl-d14	95	55 - 120
2,4,6-Tribromophenol	83	51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-70997

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-16470-7	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-70997	Lab File ID:	D4305.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	06/09/2011 1335			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-16470-7	Analysis Batch:	280-71302	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-70997	Lab File ID:	D4306.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	06/09/2011 1353			Final Weight/Volume:	1000 uL
Prep Date:	06/08/2011 1510			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	80	84	52 - 120	7	30		
Anthracene	91	94	57 - 120	4	30		
Carbazole	89	91	54 - 120	4	30		
4-Chloro-3-methylphenol	83	89	57 - 120	7	30		
2-Chlorophenol	77	81	53 - 120	6	30		
1,4-Dichlorobenzene	71	75	46 - 120	6	30		
2,4-Dinitrotoluene	87	90	53 - 120	4	30		
2-Methylnaphthalene	76	82	55 - 120	8	30		
2-Methylphenol	76	82	51 - 120	9	30		
4-Nitrophenol	92	94	41 - 120	3	30		
N-Nitrosodi-n-propylamine	75	81	51 - 120	9	30		
Pentachlorophenol	70	74	30 - 120	7	30		
Phenol	77	81	54 - 120	7	30		
Pyrene	97	99	50 - 120	3	38		
1,2,4-Trichlorobenzene	66	73	50 - 120	12	30		
2,4,6-Trichlorophenol	82	88	50 - 120	8	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	78	82	50 - 120
2-Fluorophenol	79	80	53 - 120
Nitrobenzene-d5	76	80	50 - 120
Phenol-d5	79	81	52 - 120
Terphenyl-d14	93	94	55 - 120
2,4,6-Tribromophenol	82	81	51 - 120

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Method Blank - Batch: 280-70199

Method: 8081A
Preparation: 3550C

Lab Sample ID:	MB 280-70199/1-A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Client Matrix:	Solid	Prep Batch:	280-70199	Lab File ID:	06060022.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	06/06/2011 1458	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	06/02/2011 1845			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.55	U	0.55	1.7
4,4'-DDE	0.24	U	0.24	1.7
4,4'-DDT	0.59	U	0.59	1.7
Aldrin	0.25	U	0.25	1.7
alpha-BHC	0.21	U	0.21	1.7
beta-BHC	0.66	U	0.66	1.7
delta-BHC	0.40	U	0.40	1.7
gamma-BHC (Lindane)	0.46	U	0.46	1.7
Heptachlor	0.21	U	0.21	1.7
Heptachlor epoxide	0.43	U	0.43	1.7
Endosulfan I	0.18	U	0.18	1.7
Endosulfan II	0.29	U	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	0.49	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	170

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	79	59 - 115
Decachlorobiphenyl	83	63 - 124

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Lab Control Sample - Batch: 280-70199

Method: 8081A
Preparation: 3550C

Lab Sample ID:	LCS 280-70199/2-A	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Client Matrix:	Solid	Prep Batch:	280-70199	Lab File ID:	06060013.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	06/06/2011 1228	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	06/02/2011 1845			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	16.7	12.5	75	57 - 118	
4,4'-DDE	16.7	12.2	73	61 - 115	
4,4'-DDT	16.7	15.1	91	53 - 125	
Aldrin	16.7	12.1	73	60 - 115	
alpha-BHC	16.7	12.9	77	54 - 115	
beta-BHC	16.7	12.8	77	58 - 115	
delta-BHC	16.7	13.2	79	62 - 115	
gamma-BHC (Lindane)	16.7	12.9	78	59 - 115	
Heptachlor	16.7	13.3	80	61 - 115	
Heptachlor epoxide	16.7	13.2	79	62 - 112	
Endosulfan I	16.7	13.4	80	55 - 115	
Endosulfan II	16.7	14.0	84	60 - 115	
Endosulfan sulfate	16.7	13.2	79	58 - 118	
Endrin	16.7	15.4	92	61 - 121	
Endrin aldehyde	16.7	14.3	86	54 - 115	
Endrin ketone	16.7	12.6	76	61 - 118	
gamma-Chlordane	16.7	13.2	79	60 - 115	
Methoxychlor	16.7	14.5	87	52 - 123	
alpha-Chlordane	16.7	13.3	80	60 - 115	
Dieldrin	16.7	13.9	83	63 - 117	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	77	59 - 115
Decachlorobiphenyl	83	63 - 124

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-70199

Method: 8081A
Preparation: 3550C

MS Lab Sample ID:	280-16470-3	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Client Matrix:	Solid	Prep Batch:	280-70199	Lab File ID:	06060017.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	06/06/2011 1335			Final Weight/Volume:	10000 uL
Prep Date:	06/02/2011 1845			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-16470-3	Analysis Batch:	280-70790	Instrument ID:	GCS_P2
Client Matrix:	Solid	Prep Batch:	280-70199	Lab File ID:	06060018.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	06/06/2011 1351			Final Weight/Volume:	10000 uL
Prep Date:	06/02/2011 1845			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	76	77	57 - 118	1	20		
4,4'-DDE	82	83	61 - 115	1	15		
4,4'-DDT	83	86	53 - 125	0	29		
Aldrin	85	84	60 - 115	3	50		
alpha-BHC	85	85	54 - 115	3	17		
beta-BHC	81	82	58 - 115	2	17		
delta-BHC	85	85	62 - 115	3	19		
gamma-BHC (Lindane)	83	84	59 - 115	2	24		
Heptachlor	83	83	61 - 115	3	18		
Heptachlor epoxide	83	85	62 - 112	1	18		
Endosulfan I	84	85	55 - 115	2	26		
Endosulfan II	81	80	60 - 115	4	20		
Endosulfan sulfate	80	74	58 - 118	10	22		
Endrin	93	94	61 - 121	1	30		
Endrin aldehyde	84	86	54 - 115	0	29		
Endrin ketone	72	74	61 - 118	0	20		
gamma-Chlordane	83	84	60 - 115	1	21		
Methoxychlor	71	62	52 - 123	16	23		
alpha-Chlordane	83	85	60 - 115	1	18		
Dieldrin	87	87	63 - 117	2	25		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	87	86	59 - 115
Decachlorobiphenyl	85	86	63 - 124

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Method Blank - Batch: 280-70212

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-70212/1-A	Analysis Batch:	280-70964	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-70212	Lab File ID:	005B0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	06/08/2011 1045	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	06/02/2011 2140			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	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	Acceptance Limits
Decachlorobiphenyl	83	59 - 130
Tetrachloro-m-xylene	93	53 - 128

Lab Control Sample - Batch: 280-70212

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-70212/2-A	Analysis Batch:	280-70964	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-70212	Lab File ID:	006B0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	06/08/2011 1106	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	06/02/2011 2140			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	33.3	30.7	92	54 - 132	
Aroclor 1260	33.3	30.7	92	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	86	59 - 130
Tetrachloro-m-xylene	90	53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-70212

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-16470-5	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-70212	Lab File ID:	011B1101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	06/07/2011 1758			Final Weight/Volume:	5000 uL
Prep Date:	06/02/2011 2140			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-16470-5	Analysis Batch:	280-70904	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-70212	Lab File ID:	012B1201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	06/07/2011 1820			Final Weight/Volume:	5000 uL
Prep Date:	06/02/2011 2140			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	89	88	54 - 132	1	26		
Aroclor 1260	83	72	62 - 129	15	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	70	61	59 - 130
Tetrachloro-m-xylene	88	93	53 - 128

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Method Blank - Batch: 280-70289

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-70289/1-A	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-70289	Lab File ID:	005F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.8 g
Analysis Date:	06/06/2011 1053	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	910	U	910	3700
C10-C28	620	U	620	3700

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

Lab Control Sample - Batch: 280-70289

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	LCS 280-70289/2-A	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-70289	Lab File ID:	006F0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	06/06/2011 1127	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C10-C36	64900	55800	86	57 - 115	
C10-C28	64900	55700	86	53 - 115	

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-70289

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-16470-6	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-70289	Lab File ID:	013F1301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	06/06/2011 1523			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-16470-6	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-70289	Lab File ID:	014F1401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	06/06/2011 1557			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	90	81	57 - 115	12	23		
C10-C28	90	81	56 - 115	12	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	81	80	49 - 115

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-70289

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-16470-11	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-70289	Lab File ID:	021F2101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	06/06/2011 1952			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-16470-11	Analysis Batch:	280-70799	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-70289	Lab File ID:	022F2201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.3 g
Analysis Date:	06/06/2011 2025			Final Weight/Volume:	1000 uL
Prep Date:	06/03/2011 1603			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	70	78	57 - 115	7	23		
C10-C28	70	78	56 - 115	7	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	74	83	49 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Method Blank - Batch: 280-70195

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-70195/1-A	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-70195	Lab File ID:	G0606016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	06/06/2011 2024	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	06/02/2011 1800			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	10	U	10	100
Acenaphthylene	9.0	U	9.0	100
Anthracene	3.1	U	3.1	20
Benzo[a]anthracene	3.2	U	3.2	15
Benzo[a]pyrene	6.4	U	6.4	15
Benzo[b]fluoranthene	4.2	U	4.2	15
Benzo[g,h,i]perylene	7.2	U	7.2	30
Benzo[k]fluoranthene	3.9	U	3.9	15
Chrysene	4.8	U	4.8	40
Dibenzo(a,h)anthracene	11	U	11	30
Fluoranthene	13	U	13	40
Fluorene	5.3	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	Acceptance Limits
Terphenyl-d14 (SUR)	92	72 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Lab Control Sample - Batch: 280-70195

Method: 8310
Preparation: 3550C

Lab Sample ID:	LCS 280-70195/2-A	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-70195	Lab File ID:	G0606017.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	06/06/2011 2055	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	06/02/2011 1800			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2000	1860	93	72 - 115	
Acenaphthylene	2000	1880	94	60 - 115	
Anthracene	2000	1770	88	61 - 115	
Benzo[a]anthracene	2000	2070	103	76 - 115	
Benzo[a]pyrene	2000	2070	103	69 - 115	
Benzo[b]fluoranthene	2000	1950	98	81 - 115	
Benzo[g,h,i]perylene	2000	2030	101	71 - 115	
Benzo[k]fluoranthene	2000	1940	97	85 - 115	
Chrysene	2000	1910	95	70 - 115	
Dibenzo(a,h)anthracene	2000	1960	98	79 - 115	
Fluoranthene	2000	1940	97	67 - 115	
Fluorene	2000	1900	95	72 - 115	
Indeno[1,2,3-cd]pyrene	2000	2110	105	76 - 115	
Naphthalene	2000	1940	97	77 - 115	
Phenanthrene	2000	1940	97	79 - 115	
Pyrene	2000	2000	100	77 - 115	

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

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-70195

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-16470-2	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-70195	Lab File ID:	G0606020.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	06/06/2011 2226			Final Weight/Volume:	4000 uL
Prep Date:	06/02/2011 1800			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-16470-2	Analysis Batch:	280-70572	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-70195	Lab File ID:	G0606021.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	06/06/2011 2257			Final Weight/Volume:	4000 uL
Prep Date:	06/02/2011 1800			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	95	94	72 - 115	3	20		
Acenaphthylene	94	94	60 - 115	3	21		
Anthracene	90	89	61 - 115	4	20		
Benzo[a]anthracene	106	107	76 - 115	2	20		
Benzo[a]pyrene	99	98	69 - 115	3	20		
Benzo[b]fluoranthene	103	103	81 - 115	3	20		
Benzo[g,h,i]perylene	101	104	71 - 115	0	20		
Benzo[k]fluoranthene	100	100	85 - 115	3	20		
Chrysene	98	98	70 - 115	3	20		
Dibenzo(a,h)anthracene	99	99	79 - 115	2	20		
Fluoranthene	101	102	67 - 115	2	20		
Fluorene	97	97	72 - 115	3	20		
Indeno[1,2,3-cd]pyrene	105	106	76 - 115	2	20		
Naphthalene	100	100	77 - 115	3	20		
Phenanthrene	99	98	79 - 115	3	20		
Pyrene	105	106	77 - 115	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	96	98	72 - 115

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Method Blank - Batch: 280-70111

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-70111/1-A	Analysis Batch:	280-70515	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 g
Analysis Date:	06/03/2011 1926	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Arsenic	0.66	U	0.66	1.0
Barium	0.076	U	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.0730	B	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.828	B	0.22	1.0
Iron	3.8	U	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Lab Control Sample - Batch: 280-70111

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-70111/2-A	Analysis Batch:	280-70515	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 g
Analysis Date:	06/03/2011 1929	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	184.9	92	82 - 116	
Antimony	50.0	48.45	97	82 - 110	
Arsenic	100	95.42	95	85 - 110	
Barium	200	197.0	99	87 - 112	
Beryllium	5.00	4.54	91	84 - 114	
Boron	100	93.62	94	81 - 110	
Cadmium	10.0	10.0	100	87 - 110	
Calcium	5000	4599	92	82 - 114	
Chromium	20.0	19.61	98	84 - 114	
Cobalt	50.0	47.17	94	87 - 110	
Copper	25.0	24.69	99	88 - 110	
Iron	100	90.05	90	87 - 120	
Lead	50.0	48.14	96	86 - 110	
Magnesium	5000	4746	95	90 - 110	
Manganese	50.0	47.61	95	88 - 110	
Molybdenum	100	96.04	96	86 - 110	
Nickel	50.0	47.47	95	87 - 110	
Potassium	5000	5142	103	89 - 110	
Selenium	200	193.0	96	83 - 110	
Silicon	1000	107.3	11	10 - 70	
Silver	5.00	4.79	96	87 - 114	
Sodium	5000	5135	103	90 - 112	
Vanadium	50.0	48.34	97	88 - 110	
Zinc	50.0	47.46	95	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Matrix Spike - Batch: 280-70111

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-16470-1	Analysis Batch:	280-70515	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.15 g
Analysis Date:	06/03/2011 1936	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	6830		199	7500	335	50 - 200	4
Antimony	0.41	U	49.8	26.61	53	20 - 200	
Arsenic	3.7		99.7	88.10	85	76 - 111	
Barium	60.7		199	236.9	88	52 - 159	
Beryllium	0.036	U	4.98	4.07	82	72 - 105	
Boron	1.1	B	99.7	82.76	83	75 - 107	
Cadmium	0.063	B	9.97	9.10	91	40 - 130	
Calcium	3980		4980	8784	96	43 - 165	
Chromium	11.0		19.9	31.50	103	70 - 200	
Cobalt	6.9		49.8	48.43	83	72 - 106	
Copper	15.9		24.9	37.39	86	37 - 187	
Iron	16700		99.7	15490	-1209	70 - 200	4
Lead	3.0		49.8	45.40	85	70 - 200	
Magnesium	4590		4980	8886	86	64 - 145	
Manganese	284		49.8	303.6	39	40 - 200	4
Molybdenum	0.49	B	99.7	83.92	84	75 - 103	
Nickel	10.6		49.8	52.66	84	61 - 126	
Potassium	828		4980	5513	94	56 - 172	
Selenium	0.94	U	199	172.2	86	76 - 104	
Silicon	202		997	191.0	-1	20 - 200	N
Silver	0.17	U	4.98	4.25	85	75 - 141	
Sodium	226		4980	5175	99	78 - 111	
Vanadium	46.6		49.8	89.80	87	50 - 169	
Zinc	35.1		49.8	75.06	80	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Duplicate - Batch: 280-70111

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-16470-1	Analysis Batch:	280-70515	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-70111	Lab File ID:	26b060311.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.12 g
Analysis Date:	06/03/2011 1939	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	06/03/2011 0815				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	6830		6212	10	40	
Antimony	0.41	U	0.39	NC	40	U
Arsenic	3.7		2.02	58	30	M
Barium	60.7		60.99	0.4	30	
Beryllium	0.036	U	0.034	NC	30	U
Boron	1.1	B	1.12	3	30	B
Cadmium	0.063	B	0.0481	27	30	B
Calcium	3980		3869	3	30	
Chromium	11.0		14.05	24	40	
Cobalt	6.9		7.97	15	30	
Copper	15.9		16.70	5	30	
Iron	16700		17230	3	40	
Lead	3.0		2.83	5	40	
Magnesium	4590		5748	22	30	
Manganese	284		278.2	2	40	
Molybdenum	0.49	B	0.527	8	30	B
Nickel	10.6		27.39	88	30	M
Potassium	828		720.3	14	40	
Selenium	0.94	U	0.88	NC	30	U
Silicon	202		155.4	26	40	
Silver	0.17	U	0.16	NC	30	U
Sodium	226		243.4	7	30	
Vanadium	46.6		48.11	3	30	
Zinc	35.1		35.67	2	40	

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Method Blank - Batch: 280-70252

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-70252/1-A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	06/03/2011 1643	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-70252

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-70252/2-A	Analysis Batch:	280-70455	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	06/03/2011 1650	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.412	99	87 - 111	

Matrix Spike - Batch: 280-70252

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-16470-1	Analysis Batch:	280-70455	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.63 g
Analysis Date:	06/03/2011 1657	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0057	U	0.455	0.448	99	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Duplicate - Batch: 280-70252

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-16470-1	Analysis Batch:	280-70455	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-70252	Lab File ID:	110603AB.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.68 g
Analysis Date:	06/03/2011 1654	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/03/2011 1330				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0057	U	0.00640	NC	20	B

Client: Washington Closure Hanford

Job Number: 280-16470-1
Sdg Number: JP0190

Duplicate - Batch: 280-70305

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-16470-1	Analysis Batch:	280-70305	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:	06/03/2011 1047	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	12.7	13.9	8	20	

4.2 , 5.0 & 6021 FP

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-073	Page 1 of 3

Collector: K. Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B	Data Turnaround: ~~21~~ 7 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 128 H-1 Reverification sampling		SAF No.: RC-107
Ice Chest No.: WCH-08-DH5	Field Logbook No.: EL 1627-05	COA: 0128H12000	Method of Shipment: Government Vehicle/FedEx
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7971 5765 5198

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hexavalent 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			
Sample No. / Matrix * / Sample Date / Sample Time										
J1JCR9 / SOIL / 5/31/11 / 0820	X		X	X	X	X	X			
J1JCT0 / SOIL / 5/31/11 / 0830	X		X	X	X	X	X			
J1JCT1 / SOIL / 5/31/11 / 0840	X		X	X	X	X	X			
J1JCT2 / SOIL / 5/31/11 / 1015	X		X	X	X	X	X			
J1JCT3 / SOIL / 5/31/11 / 1000	X		X	X	X	X	X			

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Received By/Stored In	Date/Time
K. Lucas	5-31-11 1100		JV Fullmer	1100 5/31/11
JV Fullmer	1550 5/31/11		1060, fridge 1B	1550
WCH A. Freier	1015 6-1-11		A. Freier	6-31-11
			Fed Ex	
			Daniel Birdell	0930 6/2/11

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 CMB DATE 6/1/11

JP0190

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
Ve=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-107-073	Page ~~2 of 6~~ 2 of 3

Collector 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 128 H-1 Reverification sampling		SAF No. RC-107		
Ice Chest No. WCH-08-045	Field Logbook No. EL 1627-05	COA 0128H12000	Method of Shipment Government Vehicle/FedEx		
Shipped To TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No. NA		Bill of Lading/Air Bill No. 7971576551 98		

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			
Sample No. / Matrix * / Sample Date / Sample Time										
J1JCT4 / SOIL / 5/31/11 / 0900	X		X	X	X	X	X			
J1JCT5 / SOIL / 5/31/11 / 0955	X		X	X	X	X	X			
J1JCT6 / SOIL / 5/31/11 / 0905	X		X	X	X	X	X			
J1JCT7 / SOIL / 5/31/11 / 0945	X		X	X	X	X	X			
J1JCT8 / SOIL / 5/31/11 / 0915	X		X	X	X	X	X			

CHAIN OF POSSESSION	Sign/Print Names	Date/Time
Relinquished By/Removed From: K. Lucas Kessner Lucas	Received By/Stored In: JV Fullmer	5-31-11 1100
Relinquished By/Removed From: JV Fullmer	Received By/Stored In: 1000, fridge 1B A. Freier	5-31-11 1550
Relinquished By/Removed From: WCH 1000, fridge 1B A. Freier	Received By/Stored In: Fed Ex	6-1-11 1015
Relinquished By/Removed From:	Received By/Stored In: Sharon Randall	6/2/11 0930
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)

REVIEWED BY CMB DATE 6/1/11

JP0190

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
Ve=Vegetation
X=Other

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

WCH-EE-011

Page 10 of 11

3 of 3

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-073	Page 3 of 6

Collector 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 128 H-1 Reverification sampling		SAF No. RC-107
Ice Chest No. WCH-08-045	Field Logbook No. EL 1627-05	COA	Method of Shipment Government Vehicle/FedEx
Shipped To TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No. NA		Bill of Lading/Air Bill No. 797157655198

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex/7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
J1JCT9	SOIL	5/31/11	0925	X		X	X	X	X	X		
J1JCV0	SOIL	5/31/11	0935	X		X	X	X	X	X		
J1JCV1	SOIL	5/31/11	0900	X		X	X	X	X	X		
~~J1JCV2~~	~~SOIL~~	~~5/31/11~~										
J1JCV3	SOIL	5/31/11										

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kenneth Lucas	5-31-11 1100	JV Fullmer	1100 5/31/11
JV Fullmer	1550 5/31/11	1060, fridge 1B A. Freier	1550 5-31-11
WCH A. Freier 1060, fridge 1B	1015 6-1-11	Fed Ex	
			10/2/11 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)

REVIEWED BY CMB DATE 6/1/11

JP0190

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

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 — Solid 6010TR

Analytical Due:

Report Due: 6/9/11 (Rush, 5 day TAT)

Sample Check-in List

Date/Time Received: 6/2/11 930 GM Screen Result 12 microR/hr

Client: Washington Closure Hanford SDG #: JP0190 NA[ ] SAF #: RC-107 NA [ ]

Job Number: 110470 Chain of Custody # RC-107-073

Shipping Container ID: WCH-08-045 (WCH-08-070) Air Bill # 7971 5765 5198, 7971 5765 5246

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: 4.2, 5.0 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 13
7. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
8. Samples have:
   - ___ Tape
   - ___ Custody Seals
   - ___ Hazard Lables
   - ___ Appropriate Sample Lables
9. Samples are:
   - ___ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added ___
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
13. Description of anomalies (include sample numbers): ___

Sample Custodian: ___ Date: 6/2/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[ ] No action necessary; process as is.

Project Manager ___ Date 6/2/11

LS-023, Rev. 7, 1/08

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

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 01JUN11
ActWgt: 71.0 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

THU - 02 JUN A1
PRIORITY OVERNIGHT

TRK# 0201 7971 5765 5198

MASTER

XH WHHA

80002
CO-US
DEN

50DG1/0CB0/7EFB

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

RICHLAND, WA 99354

J11151102250225

Ship Date: 01JUN11
ActWgt: 65.0 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

THU - 02 JUN A1
PRIORITY OVERNIGHT

MPS# 7971 5765 5246
0263
Mstr# 7971 5765 5198 0201

XH WHHA

80002
CO-US
DEN

5DDG1/0CB0/7EFB

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